PROLEC

Distributing Your Power

Circuit Protection & Power Distribution Catalogue 6th Edition

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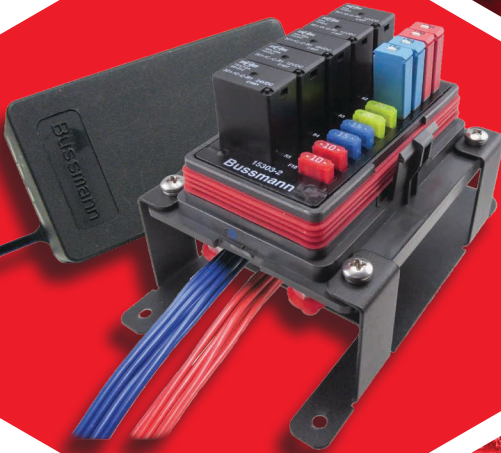
PROLEC

Distributing Your Power

Prolec's range of genuine OEM approved circuit protection and power distribution products have been designed and tested to meet the demands of today and requirements of tomorrow. Whether that be on the highway, off road, in the field, on the battlefield, underground or on the water, Prolec has a suitable product solution for your application.

We are proud to represent some of the world's leading circuit protection and power distribution manufacturers whose products meet global industry standards and are manufactured in quality accredited facilities from materials are sourced from ethical suppliers whom have corporate governance, environmental and social policies. Prolec continues to invest in our people and inventory to ensure we offer the very best products and customer service.

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AUTHORISED AGENT FOR LEADING BRANDS

PROLEC

Prolec proudly represents the worlds leading international brands of genuine, quality power distribution products used by major manufacturers around the world. These brands design, test and manufacture products unders strict quality guideline which are then approved to recognised international standards. The majority of products are manufactured using environmentally compliant materials which meet RoHS and Reach standards. Manufacturers data sheets are also available upon request.

EATON
Bussmann

Littelfuse®

MTA
Advanced Automotive Solutions

adler

menber's
CONNECTING POWER

mp
Mechanical Products

GEP
POWER PRODUCTS

Carling Technologies®
Innovative Designs. Powerful Solutions.

PEC

PROLEC
INTEGRATED POWER CONNECTION

TERRA
POWER SYSTEMS

MS
MORSETTITALIA

GESBE

CH
Cole Hersee

LONG CHUAN

MEMBER ORGANIZATIONS

PROLEC

Prolec is a proud supporter and member of the following industry organisations which are the voice for automotive industry which includes component design, parts manufacturers, wholesalers, distributors, independent service and repair workshops and retailers.

PRTC
PERFORMANCE, RACING & TUNING COUNCIL
an initiative of the AAAA

AUSTRALIAN AUTOMOTIVE
AFTERMARKET ASSOCIATION

AEVA
Australian Electric Vehicle Association

AUSTRALIAN AUTOMOTIVE PRODUCTS
MANUFACTURERS & EXPORTERS COUNCIL
APMEC

THE AUSTRALIAN
4WD
INDUSTRY COUNCIL
an initiative of the AAAA

A family
owned
Australian
business

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FAST FIND PRODUCT INDEX

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COMMUNITY SPONSORSHIP - MONASH MOTORSPORT

Combustion

Driverless

Electric

THE COMPETITION

Formula SAE is the world's largest student engineering design competition. Students from Universities all around the world design, manufacture, test and compete with formula style racecars.

COMPETITION STRUCTURE

Formula Student is divided into distinct classes; Combustion, Driverless and Electric. At competitions each car competes separately and is judged in two types of events, Dynamic and Static.

Static events allow the team to demonstrate their knowledge behind the development of the cars and test industry skills such as entrepreneurialism, financial acumen and the holistic engineering design process behind the cars.

Dynamic events are the culmination of the design process, testing the performance of the cars in a variety of scenarios. These events require more than just the quickest car; they are a test of reliability, efficiency and driver skill.

MONASH MOTORSPORT

Last year, the team from Monash Motorsport (MMS) entered 2 cars in the competition; a petrol car and electric car. This year, the team entered 3 cars; a petrol car and two electric cars, one of which is autonomous. For the latest news from Monash Motorsport, visit their Facebook page: www.facebook.com/monashmotorsport

Formula SAE-A Team 2019 MMS Results:
1st Place - Electric Vehicle
1st Place - Internal Combustion Vehicle

Formula Student Sydney 2020 MMS Results:

1st Place - Combined Overall Result	2nd Place - Skidpad Combustion
1st Place - Endurance Combustion	3rd Place - Technical Presentation
2nd Place - Acceleration Combustion	1st Place - Sponsorship Presentation
1st Place - Autocross Combustion	

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Fuses, Fuse Kits & Fuse Pullers

The original and still the best.

FUSES + KITS

Fuse Type	Characteristic	Amperage Range	I.R. @ Voltage	Ignition Protected	Ingress Rating	Page
SFE	Fast & Slow	50mA to 16A	1.5kA at 250V	-	-	10
AGC	Fast	1A to 35A	TBA, 32VDC	-	-	10
1AG & 7AG	Fast	500mA to 35A	TBA, 32VDC	-	-	10
3AG , 3AB	Fast & Slow	200mA to 35A	Varies by rating & speed	-	-	11
AGU / 5AG	Fast	10A to 60A	TBA, 32VDC	-	-	12
GBC	Fast	5A to 25A	TBA, 32VDC	-	-	12
Multimeter Fuses	Fast	630mA to 20A	Varies	-	-	12
Micro2	Fast	5A to 30A	1kA at 32VDC	-	-	13
Micro3	Fast	5A to 15A	1kA at 32VDC	-	-	13
Low Pro. Minifuse	Fast	2A to 30A	1kA at 58VDC	-	-	14
Minifuse - 32V	Fast	2A to 30A	1kA at 32VDC	-	-	15
Minifuse - 58V	Fast	3A to 30A	1kA at 58VDC	-	-	16
Minifuse - 125V	Fast	3A to 15A	1kA at 125VDC	-	-	^
Autofuse - 32V	Fast	1A to 40A	1kA at 32VDC	-	-	17
Autofuse - 58V	Fast	0.5A to 40A	1kA at 58VDC	Ign.Pro*	-	^
Autofuse - 80V	Fast	0.5A to 40A	1kA at 80VDC	Ign.Pro*	-	16
Maxifuse - 32V	Slow	20A to 100A	1kA at 32VDC	-	-	18
Maxifuse - 58V	Slow	20A to 100A	1kA at 58VDC	-	-	19
Maxifuse - 80V	Slow	20A to 100A	1kA at 80VDC	-	-	^
Maxi Plus - 32V	Slow	25A to 60A	1kA at 32VDC	-	-	19
M8 Compact	Slow	30A to 80A	1kA at 32VDC	-	-	^
MCase - 32V	Slow	15A to 40A	1kA at 32VDC	-	-	20
Mcase+ Slot 32V	Slow	15A to 60A	1kA at 32VDC	-	-	20
Low P. JCase - 58V	Slow	20A to 60A	1kA at 58VDC	-	-	20
Jcase - 32V	Slow	20A to 60A	1kA at 32VDC	-	-	21
Fusible Links - 32V	Slow	20A to 140A	1kA at 32VDC	-	-	21-22
Midifuse - 32V	Slow	30A to 200A	1kA at 32VDC	-	-	24
Midifuse - 58V	Slow	30A to 200A	1kA at 58VDC	-	-	24
Strip Fuse - 36V	Fast	25A to 150A	TBA at 36VDC	-	-	23
Megafuse - 32V	Slow	40A to 500A	2kA at 32VDC	-	-	25
Megafuse - 70V	Slow	60A to 500A	2.5kA at 70VDC	-	-	25
Powerval - 32V	Slow	150A to 180A	2kA at 32VDC	-	-	26
MRBF - 58V	Slow	30A to 300A	2kA at 58VDC	Ign.Pro	IP66	28
Zcase - 32V	Slow	40A to 600A	2kA at 32VDC	-	-	29
Multi-Pole Fuse	Slow	20A to 60A	TBA	-	-	23
Battery Term Fuse	Slow	60A to 200A	1kA at 32VDC	-	-	30
FBT	Slow	35A to 500A	TBA	-	-	26
ANL	Fast	35A to 750A	6kA - 2.7kA at 32VDC	Ign.Pro*	-	27
ANN	Very Fast	10A to 800A	2.7kA at 80VDC	-	-	27
ACK	Slow	10A to 400A	10kA at Rated Voltage	-	-	^
JJN Class T	Very Fast	70A to 600A	20kA at 160VDC	-	-	31
EV10, EV20, EV30	Very Fast	5A to 400A	20kA at 500VDC	-	-	^
AE2 & AE5	Very Fast	10A to 700A	20-30kA at 500VDC	-	-	32
AE3	Very Fast	8A to 50A	20kA at 850VDC	-	-	33
AE7	Very Fast	60A to 600A	20kA at 800VDC	-	-	33
AE6 & AEX	Very Fast	5A to 600A	20-50kA at 1000VDC	-	-	34
FWH	Very Fast	35A to 800A	50kA at 500VDC	-	-	^
FWP	Very Fast	35A to 800A	50kA at 700VDC	-	-	^
FWJ	Very Fast	35A to 800A	50kA at 800VDC	-	-	^
ATX3	Very Fast	100A to 600A	50kA at 1000VDC	-	-	^

Symbol References: * Contact sales for verification. ^ Contact sales for product information.

ABYC Definition of Ignition Protection (Ign.Pro) E11.4.15.

The design and construction of a device such that under design operating conditions:
(a) It will not ignite a flammable hydrocarbon mixture surrounding the device when an ignition source causes an internal explosion, or (b) It is incapable of releasing sufficient electrical or thermal energy to ignite a hydrocarbon mixture, or (c) The source of ignition is hermetically sealed.

What does this mean? Ignition Protected devices are designed to prevent the release of electrical or thermal energy (ie. sparks or heat) which could start a fire when operating in environments containing a mixture of air with gasoline, propane or CNG vapour. So when replacing or installing electrical equipment in these environments, make sure the product is specifically designated "Ignition Protected". As you can see in the above table, there are very few fuses that will meet this requirement, however we have a large range of circuit breakers that are Ignition Protected.

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FUSE SELECTION CHART

With an ever growing product range sometimes it can be hard to describe which fuse you need. So the following visual identification chart can help you identify some of the more common styles available. For a more comprehensive range please refer to the website www.prolecproducts.com which showcases over 300 different product images.

FUSES + KITS

SFE GLASS CARTRIDGE FUSES 32V

Littelfuse®

SFE fast acting automotive glass cartridge fuses are similar to the "AG" style fuses in that they have the same diameter however the length varies according to ampere rating to ensure accurate fuse replacement.

Part Number	Ampere Rating	Imperial Length x Width	Metric Length x Width
SFE004	4A	5/8" x 1/4"	15.90 x 6.35mm
SFE006	6A	3/4" x 1/4"	19.05 x 6.35mm
SFE07.5	7.5A	7/8" x 1/4"	22.24 x 6.35mm
SFE009	9A	7/8" x 1/4"	22.24 x 6.35mm
SFE014	14A	1-1/16" x 1/4"	26.99 x 6.35mm
SFE020	20A	1-1/4" x 1/4"	31.75 x 6.35mm
SFE030	30A	1-7/16" x 1/4"	36.51 x 6.35mm
SFE000AP	Assortment Pack 10pcs 4A, 6A, 7.5A, 9A, 2x 14A, 2x 20A, 2x 30A		**NEW**

Assortment Pack

4A 6A 7.5A 14A 20A 30A
9A
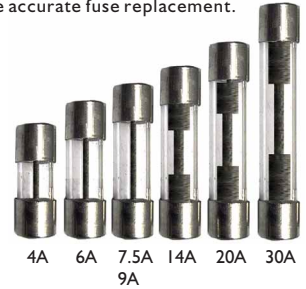
Voltage: 32VAC /32VDC (Factory certified)
Pack Size: 5, 10, 100, 500, 1000

1AG (AGA) / 7AG (AGW) GLASS FUSES 32V

Littelfuse®

Part Number	Part Number	Ampere Rating
1AG.500	7AG.500	500mA
1AG001	7AG001	1A
1AG002	7AG002	2A
1AG02.5	7AG02.5	2.5A
1AG003	7AG003	3A
1AG005	7AG005	5A
1AG07.5	7AG07.5	7.5A
1AG010	7AG010	10A
1AG015	7AG015	15A
1AG020	7AG020	20A
1AG025	7AG025	25A
1AG030	7AG030	30A

1AG / AGA

6.35
15.9
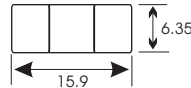
Dimensions in MM
Imperial (5/8" x 1/4")

7AG / AGW

6.35
22.24
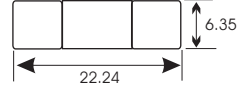
Dimensions in MM
Imperial (7/8" x 1/4")

Voltage: 32VAC / 32VDC (Factory certified)
Characteristic: Fast Acting
Pack Size: 5, 10, 100

8AG (AGX) / 3AG (AGC) GLASS FUSES 32V

Littelfuse®

Part Number	Part Number	Ampere Rating
8AG001	AGC001R	1A
8AG002	AGC002R	2A
8AG003	AGC003R	3A
8AG004	AGC004R	4A
8AG005	AGC005R	5A
8AG006	AGC006R	6A
8AG07.5	AGC07.5R	7.5A
8AG008	AGC008R	8A
8AG010	AGC010R	10A
8AG015	AGC015R	15A
8AG020	AGC020R	20A
8AG025	AGC025R	25A
8AG030	AGC030R	30A
8AG035	AGC035R	35A
-	AGC000AP	Assortment Pack 5pcs 3A, 5A, 10A, 15A, 20A

8AG / AGX

6.35
25.4
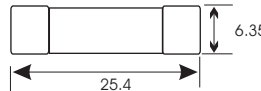
Dimensions in MM
Imperial (1" x 1/4")

3AG / AGC

6.35
31.8

Dimensions in MM
Imperial (1-1/4" x 1/4")

RELATED PRODUCTS:

Assortment Pack

Fuse Puller
(see p.44)

Fuse Assortment Trade Kits
(see p.38)

Fuse Holders
(see p.69 - 71)

Voltage: 32VAC / 32VDC (Factory certified)
Characteristic: Fast Acting
Pack Size: 5, 10, 50, 100
Notes : Complete range of 3AG fuses see page 11.
Approvals: 🅁 ⓢ Ⓤ CE RoHS (Optional)

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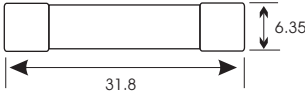
Dimensions in MM
(1-1/4" x 1/4")

6.35

31.8

6.35

31.8
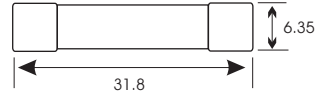
3AG LBC FUSE GLASS BODY

Fast Acting (F) Part Number	Slow Acting (T) Part Number	Ampere Rating
3AGFB.200	3AGDA.200	200mA
3AGFB.250	3AGDA.250	250mA
3AGFB.300	3AGDA.300	300mA
3AGFB.375	3AGDA.375	375mA
3AGFB.500	3AGDA.500	500mA
3AGFB.600	3AGDA.600	600mA
3AGFB.750	3AGDA.750	750mA
3AGFB001	3AGDA001	1A
3AGFB01.5	3AGDA01.5	1.5A
3AGFB002	3AGDA002	2A
3AGFB02.5	3AGDA02.5	2.5A
3AGFB003	3AGDA003	3A
3AGFB004	3AGDA004	4A
3AGFB005	3AGDA005	5A
3AGFB006	3AGDA006	6A
--	3AGDA6.25	6.25A
3AGFB007	3AGDA007	7A
3AGFB008	3AGDA008	8A
3AGFB010	3AGDA010	10A
3AGFB012	3AGDA012	12A
3AGFB015	3AGDA015	15A
3AGFB020	3AGDA020	20A
3AGFB025	3AGDA025	25A
3AGFB030	3AGDA030	30A
3AGFB035	--	35A

Glass Body Voltage Ratings
(Fast): 250VAC (200mA to 10A)
         32VAC (12A to 35A)
(Slow): 250VAC (200mA to 8A)
         32VAC (9A to 30A)
I.R.: Contact sales for further information.
Pack Size (bag): 5, 10, 100, 1000
Holders: Clips, Panel Mount, Inline & Blocks
Notes: More ratings available, please contact sales.
*Approvals may vary on the above.
*Approvals Available: 🆄🅛 ⓜ CE P5 RoHS

3AB HRC FUSE CERAMIC BODY

Fast Acting (F) Part Number	Slow Acting (T) Part Number	Ampere Rating
–	3ABDA.200	200mA
3AB.250	3ABDA.250	250mA
-	3ABDA.300	300mA
3AB.375	3ABDA.375	375mA
3AB.500	3ABDA.500	500mA
--	3ABDA.600	600mA
3AB.750	3ABDA.750	750mA
3AB001	3ABDA001	1A
–	3ABDA01.5	1.5A
3AB002	3ABDA002	2A
–	3ABDA02.5	2.5A
3AB003	3ABDA003	3A
3AB004	3ABDA004	4A
3AB005	3ABDA005	5A
3AB006	3ABDA006	6A
--	3ABDA6.25	6.25A
3AB007	3ABDA007	7A
3AB008	3ABDA008	8A
3AB010	3ABDA010	10A
3AB012	3ABDA012	12A
3AB015	3ABDA015	15A
3AB020	3ABDA020	20A
3AB025	3ABDA025	25A
3AB030	3ABDA030	30A
--	–	35A

Ceramic Body Voltage Ratings
(Fast): 250VAC (250mA to 30A)

(Slow): 250VAC (200mA to 30A)

I.R.: Contact sales for further information.
Pack Size (bag): 5, 10, 100, 1000
Holders: Clips, Panel Mount, Inline & Blocks
Notes: More ratings available, please contact sales.
*Approvals may vary on the above.
*Approvals Available: 🆄🅛 ⓜ CE P5 RoHS

RELATED PRODUCTS:

Cartridge Fuse Pullers
(see p.44)

Panel Mount Fuse Holders
(see p.69)

Inline Fuse Holders
(see p.69 - 71)

Fused Terminal Blocks
(see p.149)

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5AG (AGU) GLASS CARTRIDGE FUSES 32V

Littelfuse

EAT•N
Bussmann

Nickel Plated Part Number	Gold Plated Part Number	Ampere Rating
AGU010	AGU010GP	10A
AGU015	AGU015GP	15A
AGU020	AGU020GP	20A
AGU025	AGU025GP	25A
AGU030	AGU030GP	30A
AGU035	AGU035GP	35A
AGU040	AGU040GP	40A
AGU050	AGU050GP	50A
AGU060	AGU060GP	60A

Nickel Plated

Gold Plated

Voltage: 32VAC / 32VDC
Pack Size: 5, 10, 25, 50, 100
Features: Glass case allows for visual element inspection.
Holders: Clips, Panel Mount, Blocks, Inline & Fuse Carriers.
Notes: Widely used to protect automotive and marine audio systems.

10.3

38.1
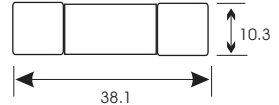
Dimensions in MM
(1-1/2" x 13/32")

MULTIMETER CARTRIDGE FUSES

EAT•N **Bussmann**

Part Number	Ampere Rating	Voltage AC	Voltage DC	"A" (mm)	"B" (mm)
3AB-FF.315/1000V	315mA	1000V		31.8	6.35
3AB-FF.500/1000V	500mA	1000V		31.8	6.35
BBS001	1A	600V		34.9	10.3
BBS003	3A	600V		34.9	10.3
KTK015	15A	600V		38.1	10.3
KTK020	20A	600V		38.1	10.3
DMM.440	440mA	1000V	1000V	34.9	10.3
MMF002	2A	1000V	1000V	38.1	10.3
MMF004	4A	1000V	1000V	38.1	10.3
MMF006	6A	1000V	1000V	38.1	10.3
MMF008	8A	1000V	1000V	38.1	10.3
MMF010	10A	1000V	1000V	38.1	10.3
DMM011	11A	1000V	1000V	38.1	10.3
MMF012	12A	1000V	1000V	38.1	10.3
MMF016	16A	1000V	1000V	38.1	10.3
MMF020	20A	1000V	1000V	38.1	10.3

3AB **BBS** **DMM.440**

KTK **DMM011** **MMF**

Characteristic: Fast acting
Pack Size (box): 1, 10
Notes: Spare cartridge fuses suit most multimeters.

B

A

6AC (GBC) EUROPEAN TORPEDO FUSE 32V

MTA

Part Number	Ampere Rating	Body Colour	
GBC005	5A	Yellow	
GBC008	8A	White	
GBC016	16A	Red	
GBC025	25A	Blue	
GBC000AP	Assortment Pack 5pcs		
	5A, 2 x 8A, 16A, 25A		

Assortment Pack

Voltage: 32VAC / 32VDC
Characteristic: Fast Acting
Body: Thermoplastic, colour coded.
Pack Size: 5, 10, 100
Holders: Inline fuse holders, contact sales.
Approvals: DIN 72581
Notes: Continental torpedo shaped fuse that was used in many older European cars.

6

5

25

Dimensions in MM

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MICRO2 FUSE SINGLE ELEMENT 32V

Littelfuse®

SILVER PLATED

Features:
- Improved opening characteristics.
- Reduced footprint. The MICRO2™ blade fuses feature smaller 5.0mm centerline spacing that allows for 38% reduction in spacing per fuse.

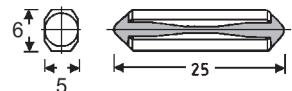| Part Number	Ampere Ratings	Body Colour	
MICR2003	3A	Violet	NEW
MICR2005	5A	Tan	
MICR207.5	7.5A	Brown	
MICR2010	10A	Red	
MICR2015	15A	Blue	
MICR2020	20A	Yellow	
MICR2025	25A	Natural	
MICR2030	30A	Green	
MICR2000AP	Assortment Pack 7pcs		
	5A, 7.5A, 10A, 15A, 20A, 25A, 30A		
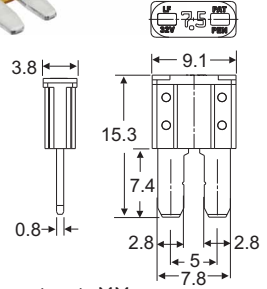
Assortment Pack

Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Fast Acting
Terminals: Zinc alloy, silver plated.
Pack Size: 5, 10, 100, 500
Approvals: SAE 2741 and ISO 8820-4.   RoHS

Dimensions in MM

RELATED PRODUCTS:

Fuse Puller (see p.44)	Assortment Pack 35 (see p.36)	Assortment Kit (see p.37)	Inline Holder (see p.72)	Add-a-circuit (see p.83)	Fuse Block (see p.86)

MICRO3 FUSE DUAL ELEMENT 32V

Littelfuse®

SILVER PLATED

The MICRO3™ fuse has 3 terminals and 2 fuse elements with a common center terminal. Its sub-miniature design meets the need for more circuits to be protected while utilizing less space and its ability to cope with high temperatures in adverse environments.

Part Number	Ampere Ratings	Body Colour	
MICR3003	3A	Violet	NEW
MICR3005	5A	Tan	
MICR307.5	7.5A	Brown	
MICR3010	10A	Red	
MICR3015	15A	Blue	
MICR3000AP	Assortment Pack 4pcs		
	5A, 7.5A, 10A, 15A		

Assortment Pack
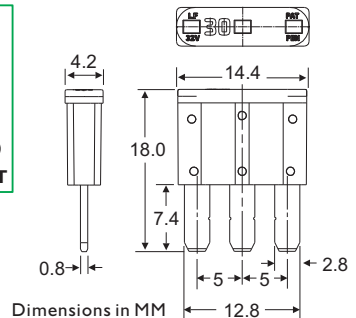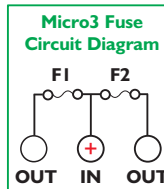
Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Fast Acting
Terminals: Zinc alloy, silver plated.
Pack Size: 5, 10, 100, 500
Approvals: RoHS

Micro3 Fuse Circuit Diagram

F1   F2

OUT   IN   OUT

RELATED PRODUCTS:

Fuse Puller (see p.44)	Assortment Kit (see p.37)	Add-a-circuit (see p.83)

Dimensions in MM

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LOW PROFILE MINI FUSE 58V

PEC

SILVER PLATED

The low profile Mini fuse features a lower overall height thereby reducing space requirements whilst still retaining similar performance characteristics to the standard Mini fuse.

Part Number	Ampere Rating	Body Colour	
LPM002	2A	Grey	
LPM003	3A	Violet	
LPM004	4A	Pink	
LPM005	5A	Tan	
LPM07.5	7.5A	Brown	
LPM010	10A	Red	
LPM015	15A	Blue	
LPM020	20A	Yellow	
LPM025	25A	Natural	
LPM030	30A	Green	
LPM000AP	Assortment Pack 5pcs		
	7.5A, 10A, 15A, 20, 30A		

Assortment Pack

3.81
8.73
0.80

15
10.9
2.58
6.15
6.46
2.22

Dimensions in MM

Voltage: 58VDC   **I.R.:** 1000A at 58VDC
Characteristic: Fast Acting
Pack Size: 5, 10, 100, 1000
Terminals: Zinc alloy, silver plated.
Holders: PCB Clips and bases please contact sales.
Approvals: SAE RoHS

RELATED PRODUCTS:

Fuse Puller
(see p.44)

Fuse Holder
(see p.72)

Fuse Kit
(see p.38)

Add-a-circuit
(see p.83)

MINI TYPE DEVICES   Diode / Resistor Shunt / Transorb

Littelfuse

EATON Bussmann

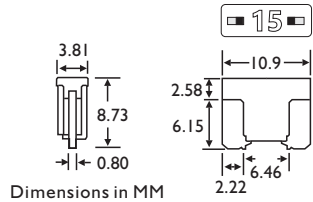Diode, Resistor, Shunt and Transorb vehicle-style electrical protection devices easily install in common Mini fuse holders and provide voltage and current limiting functionality to vehicle circuitry.

Part Number	Description	Profile	Brand	
02400113P	Diode - 1A, (400V PIV). Keyed*. Reverse current protector.	Standard	Littelfuse	
22903-6	Diode - 6A. Keyed*. Reverse current protector.	Tall	Bussmann	
22903-6V	Diode - 6A. Keyed & Wing*. Reverse current protector.	Tall	Bussmann	
22902-68	Resistor - 5W. Resistance: 68Ω. Voltage drop device.	Tall	Bussmann	
0297900*	Shunt - 20A Maximum continuous load rating.	Standard	Littelfuse	NEW
22901-1.5	Transorb - Clamp Rating: 27VDC. Power Rating:1500W. Voltage spike protector.	Tall	Littelfuse	

Materials: Thermoplastic housing, grey with metal cover (229 series).
Thermoplastic housing, black (02400113P).
Termination Type: 2.8mm blades. Compatible with ISO 280 type fuse blocks.
Diode Key Feature*: Standard key denotes installation direction.
Wing key available for error proof installation in Bussmann VEC.
Holders: Please refer to our holder compatibility table on our QR datasheet.
Pack Size: Stock lines 1pc. *Indent items contact sales

Scan this QR Code for more information

QR Code: 3001

Diode
02400113P

Diode
22903-6

**Diode**
22903-6V

Resistor
22902-68

Shunt
0297900

Transorb
22901-1.5

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MINI FUSE 32V

Littelfuse®

Part Number	Ampere Rating	Body Colour
MIN002	2A	Grey
MIN003	3A	Violet
MIN004	4A	Pink
MIN005	5A	Tan
MIN07.5	7.5A	Brown
MIN010	10A	Red
MIN015	15A	Blue
MIN020	20A	Yellow
MIN025	25A	Natural
MIN030	30A	Green
MIN000AP	Assortment Pack 5pcs	
	5A, 10A, 15A, 20, 30A	

Assortment Pack
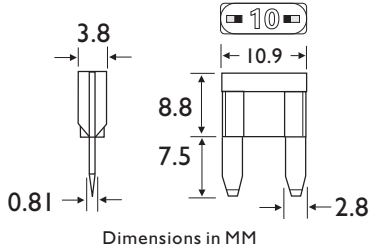
Voltage: 32VDC   **I.R.:** 1000A at 32VDC
Characteristic: Fast Acting
Terminals: Zinc alloy, silver plated.
Options: 58VDC, 80VDC & 125VDC versions contact sales.
Pack Size: 5, 10, 100, 500, 1000, 3000
Holders: Clips, PCB Blocks, Inline, Add-a-Circuits,
        Blocks & Power Distribution Modules.
Approvals: ISO 8820 / SAE J2077 / UL 248 UL SAE RoHS

3.8   10   10.9
8.8
7.5
0.81   2.8
Dimensions in MM

RELATED PRODUCTS:

35pc Assortment Pack
(see p.36)

Assortment Kit
(see p.38)

Fuse Puller
(see p.44)

Inline Holder
(see p.72 - 73)

Add-a-Circuit
(see p.83)

MINI FUSE LED INDICATING 32V

PROLEC

This fuse uses a patented bi-directional LED technology to indicate when a fuse has blown. It is a drop-in replacement for non-indicating Mini fuses.

Part Number	Ampere Rating	Body Colour
MIND003-32V	3A	Violet
MIND005-32V	5A	Tan
MIND07.5-32V	7.5A	Brown
MIND010-32V	10A	Red
MIND015-32V	15A	Blue
MIND020-32V	20A	Yellow
MIND025-32V	25A	Natural
MIND030-32V	30A	Green
MIND000AP	Assortment Pack 5pcs	
	10A, 15A, 20, 25A, 30A	

Normal state   **Open fuse**
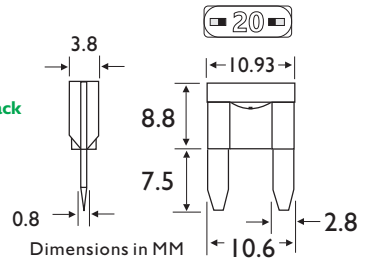
Assortment Pack

Voltage: 32VDC
Characteristic: Fast Acting
Pack Size: 2, 5, 10, 100, 500, 1000
Holders: Clips, PCB Blocks, Inline, Blocks & Power Dist.
Compliance: SAE SAE J2077, ISO 8820-3 HF RoHS

3.8   20   10.93
8.8
7.5
0.8   2.8
Dimensions in MM   10.6

RELATED PRODUCTS:

Assortment Pack
(see p.36)

Assortment Kit
(see p.38)

Fuse Clips
(see p.68)

Inline Holder
(see p.73)

Power Dist. Modules
(see p.120 - 121)

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Littelfuse

NEW

Part Number	Ampere Rating	Body Colour	
MIN002-58V	2A	Grey	⬜
MIN003-58V	3A	Violet	🟪
MIN004-58V	4A	Pink	🟥
MIN005-58V	5A	Tan	🟫
MIN07.5-58V	7.5A	Brown	🟫
MIN010-58V	10A	Red	🟥
MIN015-58V	15A	Blue	🟦
MIN020-58V	20A	Yellow	🟨
MIN025-58V	25A	Natural	⬜
MIN030-58V	30A	Green	🟩

Voltage: 58VDC
I.R.: 1000A at 58VDC
Characteristic: Fast Acting
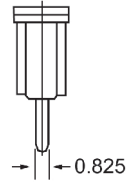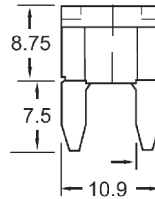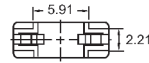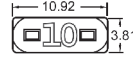**Terminals:** Zinc alloy, silver plated.
Pack Size: 3,000
Holders: Fuse Clips, Fuse Blocks, Power Distribution Modules.
Options: 80VDC and 125VDC Ignition Protected contact sales.
Notes: *Please contact sales for specifications.
Approvals: UL 248-14 RoHS

RELATED PRODUCTS:

Fuse Puller
(see p.44)

Power Dist. Modules
(see p119 - 146)

10.92
3.81
5.91
2.21
8.75
7.5
2.81
0.825
10.9

Dimensions in MM

PROLEC

NEW

80V Part Number	Ampere Rating	Body Colour	
ATF.500-80V	500mA	Dark Blue	🟦
ATF001-80V	1A	Black	⬛
ATF002-80V	2A	Grey	⬜
ATF003-80V	3A	Violet	🟪
ATF004-80V	4A	Pink	🟥
ATF005-80V	5A	Tan	🟫
ATF07.5-80V	7.5A	Brown	🟫
ATF010-80V	10A	Red	🟥
ATF015-80V	15A	Blue	🟦
ATF020-80V	20A	Yellow	🟨
ATF025-80V	25A	Natural	⬜
ATF030-80V	30A	Green	🟩
ATF035-80V	35A	Blue/Green	🟦
ATF040-80V	40A	Orange	🟧

Voltage: 80VDC **I.R.:** 1000A at 80VDC
Characteristic: Fast Acting
Terminals: Copper Alloy, Tin Plated.
Pack Size: 100, 500, 1000
Holders: Fuse Clips, Fuse Blocks, Fused Terminal Blocks.
Product Options: 58VDC & 125VDC versions. Slotted body design also available.
Notes: *Please contact sales for specifications.
Approvals: c🆄us RoHS
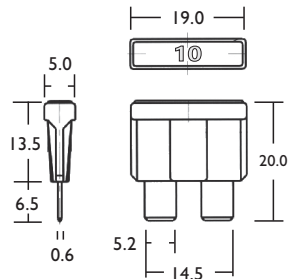
RELATED PRODUCTS:

Fuse Puller
(see p.44)

Power Dist. Modules
(see p.93)

Fuse Terminal Block
(see p.148)

5.0
13.5
6.5
0.6
19.0
10
20.0
5.2
14.5

Dimensions in MM

FUSES + KITS

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AUTO FUSE 32V

Littelfuse®

Part Number	Ampere Rating	Body Colour	
ATOF001	1A	Black	■
ATOF002	2A	Grey	■
ATOF003	3A	Violet	■
ATOF004	4A	Pink	■
ATOF005	5A	Tan	■
ATOF07.5	7.5A	Brown	■
ATOF010	10A	Red	■
ATOF015	15A	Blue	■
ATOF020	20A	Yellow	■
ATOF025	25A	Natural	■
ATOF030	30A	Green	■
ATOF035	35A	Blue/Green	■
ATOF040	40A	Orange	■
ATOF000AP	Assortment Pack 5pcs 5A,10A, 15A, 20A, 30A		

Assortment Pack

Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Fast Acting
Options: 80VDC & 125VDC versions contact sales.
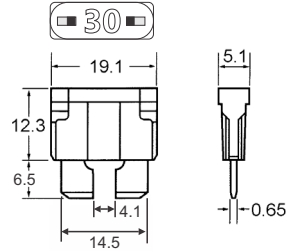**Pack Size:** 5, 10, 100
Holders: Clips, PCB Mount, Inline, Add-a-circuit, Panels, Fuse Blocks, Fused Terminal Blocks & Modular Blocks.
Approvals: ISO 8820-3   RoHS

Dimensions in MM

RELATED PRODUCTS:

| **Assortment Kit** (see p.39)	**Fuse Puller** (see p.44)	**Inline Holder** (see p.74 - 78)	**Add-a-Circuit** (see p.83)	**Fuse Blocks** (see p.87 - 93, 137)

AUTO FUSE LED INDICATING 32V

PROLEC

This fuse uses a patented bi-directional LED technology to indicate when a fuse has blown. It is a drop-in replacement for non-indicating Auto fuses.

Part Number	Ampere Rating	Body Colour	
ATFD003-32V	3A	Violet	■
ATFD005-32V	5A	Tan	■
ATFD07.5-32V	7.5A	Brown	■
ATFD010-32V	10A	Red	■
ATFD015-32V	15A	Blue	■
ATFD020-32V	20A	Yellow	■
ATFD025-32V	25A	Natural	■
ATFD030-32V	30A	Green	■
ATFD000AP	Assortment Pack 5pcs 10A, 15A, 20A, 25A, 30A		
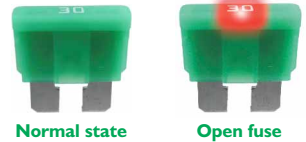
Assortment Pack

Normal state   **Open fuse**
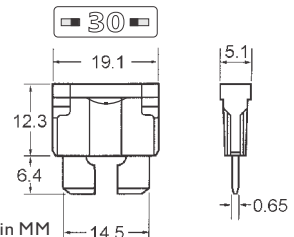
Voltage: 32VDC
Characteristic: Fast Acting
Pack Size: 2, 5, 10, 100
Holders: Clips, PCB Mount, Inline, Add-a-circuit, Panels, Fuse Blocks, Fused Terminal Blocks & Modular Blocks.
Compliance: SAE J1284, ISO 8820-3   HF RoHS

Dimensions in MM

RELATED PRODUCTS:

Assortment Pack (see p.36)	**Assortment Kit** (see p.39)	**Inline Holders** (see p.74 - 79)	**Various Blocks & Panels** (see p.87-93, 116-117, 138)

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MAXI FUSE 32V

Littelfuse®

Part Number	Ampere Rating	Body Colour	
MAX020	20A	Yellow	
MAX025	25A	Grey	
MAX030	30A	Green	
MAX035	35A	Brown	
MAX040	40A	Orange	
MAX050	50A	Red	
MAX060	60A	Blue	
MAX070	70A	Tan	
MAX080	80A	Natural	
MAX100*	100A	Violet	
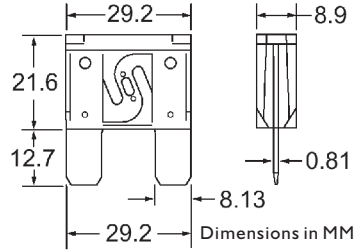
Voltage: 32VDC
I.R.: 1000A at 32VDC
Characteristic: Slow Acting
Terminals: Zinc alloy, silver plated.
Pack Size: 1, 10, 100, 500, 1200
Holders: Fuse Clips, Inline, Power Distribution Modules.
Options: 58VDC & 80VDC versions contact sales.
Notes: *Please contact sales for specifications.
Approvals (20A to 80A): SAE J1888 / ISO 8820   ⊕ RoHS

Dimensions in MM

RELATED PRODUCTS:

Fuse Puller
(see p.44)

Fuse Kit
(see p.39)

Fuse Holder
(see p.80)

Inline Fuse Holders
(see p.79 - 80)

Power Distribution
(see p.112 & 138)

MAXI FUSE INDICATING 32V

PROLEC

Day or night when a fuse blows, the fuse lights up to indicate immediately which fuse needs replacing which saves time and effort. This fuse uses a patented bi-directional LED technology to indicate when a fuse has blown. It is a drop-in replacement for non-indicating Maxi fuse.

Part Number	Ampere Rating	Body Colour	
MAXD020	20A	Yellow	
MAXD030	30A	Green	
MAXD040	40A	Orange	
MAXD050	50A	Red	
MAXD060	60A	Blue	
MAXD070	70A	Tan	
MAXD080	80A	Natural	
MAXD100	100A	Violet	

Normal state

Open fuse
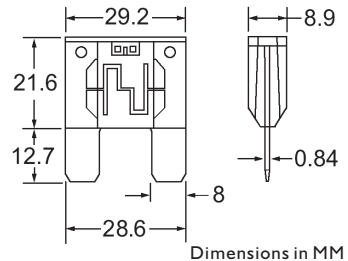
Voltage: 32VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100, 500, 1000
Holders: Fuse Clips, Inline, Fuse Blocks & Power Dist.
Features: Maxi fuse with blown fault LED indicator.

RELATED PRODUCTS:

Inline Fuse Holder
(see p.80)

Inline Fuse Holder
(see p.79 - 80)

Dimensions in MM

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MAXI FUSE 58V

Adler

Part Number	Ampere Rating	Body Colour	
MAX030-58V	30A	Green	🟩
MAX040-58V	40A	Orange	🟧
MAX050-58V	50A	Red	🟥
MAX060-58V	60A	Blue	🟦
MAX080-58V	80A	Natural	⬜

NEW

Voltage: 58VDC
I.R.: 1000A at 58VDC
Characteristic: Slow Acting
Features: Element window.
Terminals: Zinc alloy.
Pack Size: 1, 10, 100, 500, 1000.
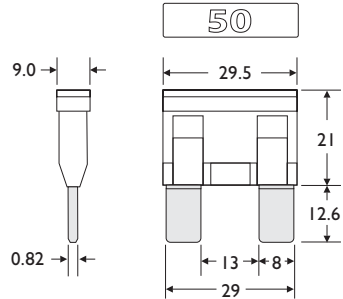**Holders:** Fuse Clips, Inline, Power Distribution Modules.
Notes: *Please contact sales for specifications.
For other ampere ratings contact sales.
Complies With: ISO 8820-3 RoHS

RELATED PRODUCTS: **Fuse Puller** (see p.44)

50

9.0   29.5
21
12.6
0.82   13   8
29

Dimensions in MM

FUSES + KITS

MAXIPLUS COMPACT FUSE 32V

Littelfuse

The MAXI+® Fuse is new standard for vehicle circuit protection. Its miniature design meets the need for more circuits to be protected while utilizing less space, and its ability to cope with high temperatures in adverse environments makes the MAXI+® Fuse of recommended choice for protection.

NEW
SILVER PLATED

Part Number	Ampere Rating	Body Colour	
MAXP020	20A	Yellow	🟨
MAXP025	25A	Grey	⬜
MAXP030	30A	Green	🟩
MAXP035	35A	Brown	🟫
MAXP040	40A	Orange	🟧
MAXP050	50A	Red	🟥
MAXP060	60A	Blue	🟦

Voltage: 32VDC
I.R.: 1000A at 32VDC
Characteristic: Slow Acting
Component Level Temperature Range: -40˚C to +125˚C
System Level Temperature Range: -40˚C to +105˚C
105°C is a typical system level temperature requirement.
Terminals: Zinc alloy, silver plated.
Features: Maxi fuse opaque case to see fuse element.
Holders: Fuse Clips, Inline, PDM's contact sales for details.
Pack Size: 1, 10, 100, 500, 1000
Approvals: ISO 8820-10: 2020
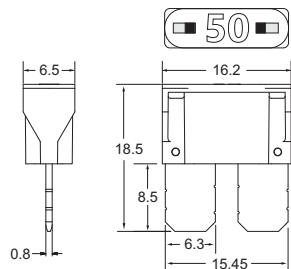
RELATED PRODUCTS:

Terminals F630E (0.35 - 6.0mm²)

NEW **Inline Fuse Holder** (# 0101881 contact sales)

NEW **Fuse & Relay Module** (# 0101695 contact sales)

50

6.5   16.2
18.5
8.5
0.8   6.3
15.45

Dimensions in MM

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MCASE UNSLOTTED FUSE LINKS 32V

 PEC

2.8mm Term. Part Number	Ampere Rating	Body Colour	
MJC015	15A	Grey	
MJC020	20A	Lt.Blue	
MJC025	25A	White	
MJC030	30A	Pink	
MJC040	40A	Green	
MJC000AP	Assortment Pack 5pcs 15A, 20A, 25A, 30A, 40A		

Assortment Pack

Voltage: 32VDC **I.R.:** 1000A at 32VDC
Fuse Charateristic: Slow Acting
Shunt: 30A Max Cont. Load Rating, P/N: 0695900.PXP. Contact Sales.
Pack Size: 1, 10, 100, 2000
Approvals: RoHS

Top Side
10.7
7.7

Rear Side
4.6

15 12.5
9.7 6.2

Dimensions in MM

MCASE+ SLOTTED FUSE LINKS 32V

NEW **Littelfuse**

6.35mm Term. Part Number	Ampere Rating	Body Colour	
MCPS015	15A	Grey	
MCPS020	20A	Lt.Blue	
MCPS025	25A	White	
MCPS030	30A	Pink	
MCPS040	40A	Green	
MCPS050	50A	Red	
MCPS060	60A	Yellow	
0695900.PXPS	50A Shunt ST	Black	
MCPS000AP	Assortment Pack 7pcs 15A, 20A, 25A, 30A, 40A, 50A, 60A		

MCPS Fuse

0695900.PXPS Shunt

Assortment Pack

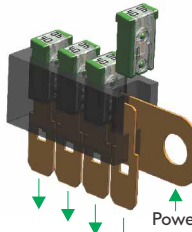**Voltage:** 32VDC **I.R.:** 1000A at 32VDC
Fuse Charateristic: Slow Acting
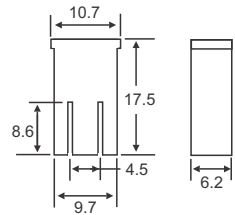**Shunt:** 50A Max Continuous Load Rating
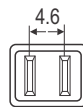**Pack Size:** 1, 10, 100, 2000
Holders: MiniFLEC
Approvals: RoHS

ⓘ The Mcase+ Slotted fuse has a unique design feature in that the fuse can be mounted directly onto a comb busbar.

Power Input

Accessories

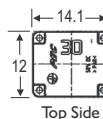Top Side
50 50

Rear Side
4.6

10.7
17.5
8.6
4.5
9.7
6.2

Dimensions in MM

LOW PROFILE JCASE FUSE LINKS 58V

PEC

6.35mm Term. Part Number	Ampere Rating	Body Colour	
LJC020	20A	Lt. Blue	
LJC025	25A	White	
LJC030	30A	Pink	
LJC040	40A	Green	
LJC050	50A	Red	
LJC060	60A	Yellow	
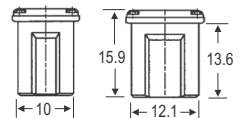
Voltage: 58VDC **I.R.:** 1000A at 58VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100
Holders: Inline, Panel Mount & Modules.
Approvals: RoHS

4.6
Rear Side

14.1
12
Top Side

15.9 13.6
10 12.1

Dimensions in MM

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JCASE FUSE LINKS 32V

PEC

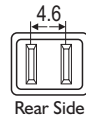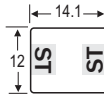| 6.35mm Term. Part Number	Ampere Rating	Body Colour	
JTF020	20A	Lt. Blue	
JTF025	25A	White	NEW
JTF030	30A	Pink	
JTF040	40A	Green	
JTF050	50A	Red	
JTF060	60A	Yellow	
JTF070	70A	Brown	NEW
JTF080	80A	Black	NEW
0495900	50A Shunt	Black	NEW

Voltage: 32VDC **I.R.:** 1000A at 32VDC
Fuse Characteristic: Slow Acting
Shunt: 50A Max Continuous Load Rating (ST)
**Holders:** Inline & Power Fuse / Relay Dist. Module.
Pack Size: 1, 10, 100, 500
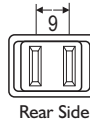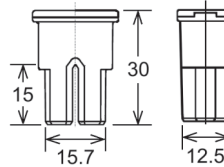**Approvals:** ISO 8820 / JASO D612 RoHS

14.1

12 50A

Fuse Top Side

4.6

Rear Side

14.1

12 ST ST

Shunt Top Side

27
19
12.1 10
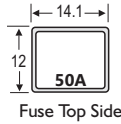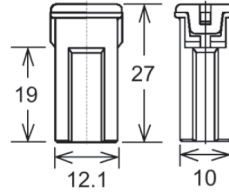
Dimensions in MM

JCASE Fuse

JCASE Shunt

on the right side, vertical textFUSES + KITS

LARGE FUSE LINK 32V

PEC

Part Number	Ampere Rating	Body Colour	
ASF020	20A	Lt. Blue	
ASF030	30A	Pink	
ASF040	40A	Green	
ASF050	50A	Red	
ASF060	60A	Yellow	
ASF070	70A	Brown	
ASF080	80A	Black	
ASF100	100A	Blue	
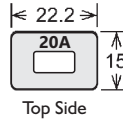
Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100, 500
Approvals: ISO 8820 / JASO D612 RoHS

22.2

20A 15

Top Side

9

Rear Side

30
15 15.7 12.5

Dimensions in MM

FUSE LINK WITH LOCK 32V

PEC

Part Number	Ampere Rating	Body Type	Body Colour	
SHF025	25A	Small	Lt. Brown	
SHF030	30A	Small	Lt. Green	

Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100, 500
Approvals: ISO 8820 / JASO D612 RoHS

21.4
12
25A 13

Top Side

31
16 13
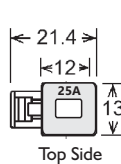
Dimensions in MM

Small Body (25A to 30A)

Part Number	Ampere Rating	Body Type	Body Colour	
LHF045	45A	Large	Red	
LHF065	65A	Large	Black	
LHF075	75A	Large	Grey	

Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100
Approvals: ISO 8820 / JASO D612 RoHS

28
24
65A 15

Top Side

37
23.4 13.5
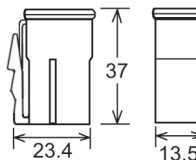
Dimensions in MM

Large Body (45A - 75A)

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FUSE LINK SMALL BENT MALE TERMINAL 32V

PEC

Small Body Part Number	Ampere Rating	Body Colour	
SBF030	30A	Pink	
SBF040	40A	Green	
SBF050	50A	Red	
SBF060	60A	Yellow	
SBF070	70A	Brown	
SBF080	80A	Black	
SBF100	100A	Blue	
SBF120	120A	White	
SBF140	140A	Maroon	
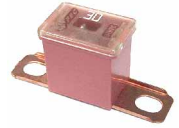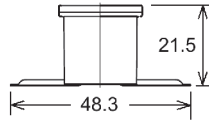
Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100
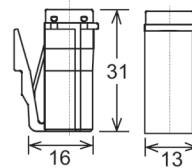**Approvals:** ISO 8820 / JASO D612 RoHS

36mm Fixing Centers

21.5
48.3
36
22.2
5.4
30
12 | 15
7.5

Dimensions in MM

FUSE LINK LARGE BENT MALE TERMINAL 32V

PEC

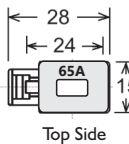| Large Body Part Number	Ampere Rating	Body Colour	
LBF030	30A	Pink	
LBF040	40A	Green	
LBF050	50A	Red	
LBF060	60A	Yellow	
LBF070	70A	Brown	
LBF080	80A	Black	
LBF100	100A	Blue	
LBF120	120A	White	
LBF140	140A	Maroon	
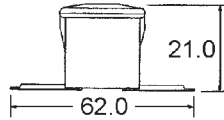
Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100
Approvals: ISO 8820 / JASO D612 RoHS

49mm Fixing Centers

21.0
62.0
49.0
22.0
40
12 | 14.5

Dimensions in MM

FUSE LINK STRAIGHT MALE TERMINAL 32V

PEC

Bolt Hole Terminal Part Number	Cut Out Terminal Part Number	Ampere Rating	Body Colour	
BTF030	BTCF030	30A	Pink	
BTF040	BTCF040	40A	Green	
BTF050	BTCF050	50A	Red	
BTF060	BTCF060	60A	Yellow	
BTF070	BTCF070	70A	Brown	
BTF080	BTCF080	80A	Black	
BTF100	BTCF100	100A	Blue	
BTF120	BTCF120	120A	White	
BTF140	BTCF140	140A	Maroon	
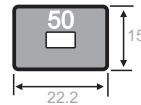
Voltage: 32VDC **I.R.:** 1000A at 32VDC
Characteristic: Slow Acting
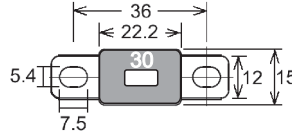**Pack Size:** 1, 5, 10, 100
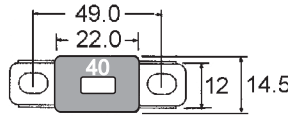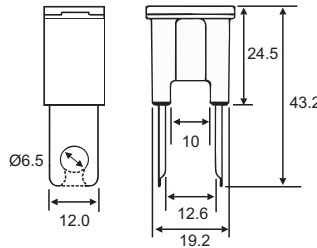**Approvals:** ISO 8820 / JASO D612 RoHS

50
15
22.2
Ø6.5
12.0
24.5
43.2
10
12.6
19.2

Dimensions in MM

Bolt Hole Type

NEW

Cut Out Type

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MULTI-POLE FUSE LINKS (3-IN-1) 32V & 58V

Bussmann multi-pole fuses (MPF) are cartridge fuses containing three fuse elements of the same or differing ampere ratings for protecting three circuits with a single design. They are the OEM equivalent to the fuses used on popular Infiniti, Lexus, Nissan and Toyota vehicles manufactured since 2002.

Part Number	Ampere Ratings	Voltage	Colour Code	
MPF-433X	40A + 30A + 30A	32VDC	Pink	🟪
MPF-444X	40A + 40A + 40A	32VDC	Green	🟩
MPF-533X	50A + 30A + 30A	32VDC	Red	🟥
MPF-534X	50A + 30A + 40A	32VDC	Blue	🟦
MPF-633X	60A + 30A + 30A	32VDC	Yellow	🟨
MPF2-324X	30A + 20A + 40A	58VDC	Yellow	🟨
MPF2-433X	40A + 30A + 30A	58VDC	Pink	🟪
MPF2-444X	40A + 40A + 40A	58VDC	Green	🟩
MPF2-533X	50A + 30A + 30A	58VDC	Red	🟥
MPF2-534X	50A + 30A + 40A	58VDC	Blue	🟦
MPF2-535X	50A + 30A + 50A	58VDC	Black	⬛
MPF2-555X	50A + 50A + 50A	58VDC	Maroon	🟪

MPF (32VDC)
32.6 x 15.6 x 28mm
(L x W x H)

MPF2 (58VDC)
28.5 x 16 x 16mm
(L x W x H)

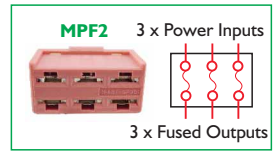**Voltage:** See table
I.R.: 1000A at rated voltage
Element: Copper Alloy
Feature: Element Window
Housing Flammability: UL 94
Pack Size: Varies, please contact sales.
Approvals: ISO8820-4, JASO D612-4 RoHS

MPF
← 1 x Power Input
3 x Fused Outputs

MPF2 3 x Power Inputs
3 x Fused Outputs
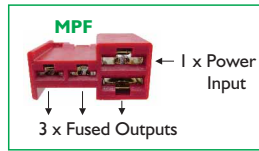
FUSE STRIP LUG TYPE WITHOUT HOUSING 36V

Part Number	Ampere Rating
FBM030	30A
FBM040	40A*
FBM050	50A
FBM060	60A*
FBM070	70A*
FBM080	80A
FBM100	100A
FBM125	125A*
FBM150	150A*
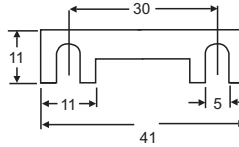
Dimensions in MM

90° Fork Type Lugs

Voltage: 36VDC   **I.R.:** 625A
Material: Zinc   **Mounting:** M5 studs.
Pack Size: 10, 100, 2000
Holders: In-Line Holder & Blocks (Midi fuse type)
Notes : Can be replaced by 58V Midi fuse (see p.24)
Approvals: DIN 72581/2   *Not DIN standard. RoHS

FUSE STRIP RING TYPE WITHOUT HOUSING 32V

Original equipment fuses suitable for older model Volkswagen, Audi, Seat, Skoda cars.

Part Number	Assortment Pack Contains 8pcs
00940402ZP	(1pc): 30A, 40A, 50A, 60A,
	(1pc) 80A, 110A, 150A, 175A

6.5 dia.
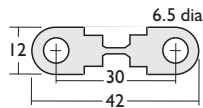
Dimensions in MM

Voltage: 32VDC   **I.R.:** 1000A
Material: Zinc Alloy   **Mounting:** M6 studs.
Notes : Can be replaced by 58V Midi fuse (see p.24)
Approvals: DIN 72581/2 RoHS

MIDI FUSE M5 32V

Littelfuse®

Features:
- Space saving fuse provides for high current wiring protection.
- Bolted fixing ensures optimum electrical connection.
- Low to high amperage ratings.

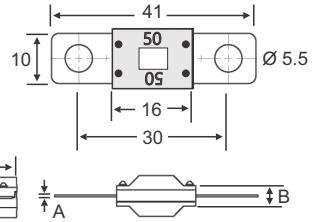| Part Number	Ampere Rating	Font Colour	
MID023-32V	23A	White	☐
MID030-32V	30A	Orange	■
MID040-32V	40A	Green	■
MID050-32V	50A	Red	■
MID060-32V	60A	Yellow	■
MID070-32V	70A	Brown	■
MID080-32V	80A	White	☐
MID100-32V	100A	Blue	■
MID125-32V	125A	Pink	■
MID150-32V*	150A	Lt. Grey	☐
MID175-32V*	175A	Dark Grey	■
MID200-32V*	200A	Violet	■

I.R.: 1kA at 32VDC. **Voltage:** 32VDC
Characteristic: Slow Acting
Features: Element window (except 23A).
Terminal: Tin plated copper.
Mounting: M5 stud only.
Options: Shunt Midi, contact sales.
Holders: In-line, Fuse Blocks & Fused Power Distribution Units.
Pack Size: 1, 10, 100, 500, 1000
Notes: * Short circuit protector only.
Approvals: ISO 8820-5 RoHS

Dimensions in MM

Amp Ratings	A	B	C
23A-80A	0.41	4.0	8.0
100A-200A	0.63	4.3	8.3

RELATED PRODUCTS:

Fuse Assortment Kit
(see p.41)

Inline Fuse Holder
(see p.81 - 82)

Fuse Blocks & PDM
(see p.94 - 118)

MIDI FUSE M6 65V - 58V

PEC

NEW

Part Number	Ampere Rating	Body Colour	
MID020-58VM6	20A	N/A	◻
MID030-58VM6	30A	Orange	■
MID040-58VM6	40A	Green	■
MID050-58VM6	50A	Red	■
MID060-58VM6	60A	Yellow	■
MID070-58VM6	70A	Brown	■
MID080-58VM6	80A	White	☐
MID100-58VM6	100A	Blue	■
MID125-58VM6	125A	Pink	■
MID150-58VM6	150A	Lt. Grey	☐
MID175-58VM6	175A	Dark Grey	■
MID200-58VM6	200A	Violet	■

I.R.: 1kA at rated voltage.
Voltage: 65VDC (20A), 58VDC (30A-200A)
Characteristic: Slow Acting
Features: Element window (except 20A).
Terminal: Tin plated copper. **Mounting:** M5 or M6 stud.
Options: 70V version - 36mm fixing centers -70VSF36.
Holders: In-line, Fuse Blocks & Power Distribution Unit.
Pack Size: 1, 10, 100, 500, 1000
Approvals: ISO 8820-5 RoHS
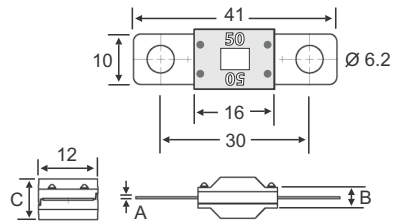
Dimensions in MM

Amp Ratings	A	B	C
20A-80A	0.41	4.0	8.0
100A-200A	0.63	4.3	8.3

RELATED PRODUCTS:

Fuse Blocks
(see p.94)

Fuse Block
(see p.98)

Fused PDMs
(see p.110 - 117)

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Web: www.prolecproducts.com.au

MEGA FUSE RIVETED 32V

Designed and patented by Littelfuse, the MEGA fuse is ideal for battery, alternator connectors and other heavy gauge cables.

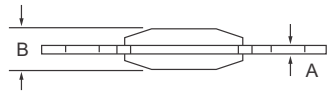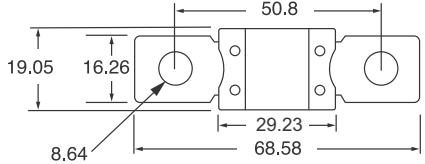| 32V Part Number	Ampere Rating	Font Colour	
0298040	40A	White	☐
0298060	60A	White	☐
0298080	80A	Red	🟥
0298100	100A	Yellow	🟨
0298125	125A	Green	🟩
0298150	150A	Orange	🟧
0298175	175A	White	☐
0298200	200A	Blue	🟦
0298225	225A	Tan	🟫
0298250	250A	Pink	🟪
0298300*	300A	Grey	⬜
0298350*	350A	Green	🟩
0298400*	400A	Purple	🟪
0298450*	450A	Orange	🟧
0298500*	500A	Brown	🟫

Voltage: 32VDC   **I.R.:** 2kA at 32VDC.
Characteristic: Slow Acting * Short circuit protectors only.
Terminals: 40A & 60A (Silver plated) Brass, 80A - 500A Copper.
Mounting: M8 or 5/16" studs.
Options: 120VDC, 60A to 650A, 56mm fixing, 0888 Series.
Pack Size: 1, 10, 100, 500
Approvals: ISO 8820-5   RoHS

Dimensions in MM

Amp Ratings	A	B
40A - 250A	1.02	9.9
300A - 500A	1.83	10.67

RELATED PRODUCTS:

Fuse Kit (see p.41)

Inline Fuse Holder (see p.82)

Fuse Blocks (see p.96 - 101)

Fused Distribution Module (see p113 - 115)

MEGAFUSE 32V & 70V

NEW

32V Part Number	70V Part Number	Ampere Rating	Font / Body Colour	
MEG040	MEG040-70V	40A	White	☐
-	MEG050-70V	50A	White	☐
MEG060	MEG060-70V	60A	Lt. Blue	🟦
MEG080	MEG080-70V	80A	Red	🟥
MEG100	MEG100-70V	100A	Yellow	🟨
MEG125	MEG125-70V	125A	Green	🟩
MEG150	MEG150-70V	150A	Orange	🟧
MEG175	MEG175-70V	175A	White	☐
MEG200	MEG200-70V	200A	Blue	🟦
MEG225	MEG225-70V	225A	Tan	🟫
MEG250	MEG250-70V	250A	Pink	🟪
MEG300	MEG300-70V	300A	Grey	⬜
MEG350	MEG350-70V	350A	Green	🟩
MEG400	MEG400-70V	400A	Purple	🟪
MEG450	MEG450-70V	450A	Orange	🟧
MEG500	MEG500-70V	500A	Brown	🟫

Voltage (32VDC): I.R.: 1.0kA at 32VDC
Voltage (70VDC): I.R.: 2.5kA at 70VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100, 400
Holders: Inline, Blocks & Power Dist. Unit.
Mounting: M8 or 5/16" studs.
Approvals: ISO 20934   RoHS

Dimensions in MM

RELATED PRODUCTS:

Fuse Block (see p.97)

Fuse Block (see p.99)

Fuse Block (see p.100)

Fuse Block (see p.101)

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25
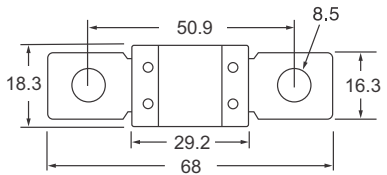
POWERVAL CALIBRE FUSE 32V

- Designed for high current circuit protection to protect starter cables.
- Ideal for starter and alternator connectors.
- These fuses allow the load of a starter motor or winch to operate without blowing the fuse, however they will open in the case of a direct short.

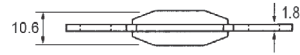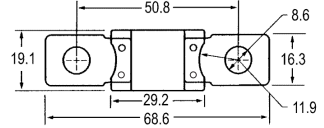| Part Number	Continuous Rated Current	Minimum Melting Current	Maximum Melting Current	Cable Size (mm²)	Body Colour	
POWCAL1	150A	380A	2000A	16	Grey	⬜
POWCAL2	150A	400A	2000A	25	Black	⬛
POWCAL3	180A	530A	2000A	50	Red	🟥
POWCAL4	180A	600A	2000A	50	Lt.Brown	🟧
POWCAL5	180A	700A	2000A	50	Dk. Brown	🟫

Voltage: 32VDC **I.R.:** 2000A at 32VDC
Characteristic: Slow Acting
Mounting: M8 or 5/16" studs
Terminal: (POWCAL1 - 2) Tin Plated Zinc Alloy.
(POWCAL3 - 5) Tin plated Copper.
Pack Size: 1, 10, 100
Holders: Inline, Fuse Blocks, Power Dist. Unit.
Approvals: REACH RoHS

Dimensions in MM

RELATED PRODUCTS:

Inline Fuse Holder
(see p.82)

Fuse Block
(see p.96-101)

Fused PDU
(see p.111-115)

Scan this QR Code for more information

QR Code: 3004

FUSE STRIP WITH HOUSING 48V - 80V

UPDATED

Part Number	Ampere Rating		Part Number	Ampere Rating	
FBT030	30A	NEW	FBT250	250A	
FBT035	35A		FBT275	275A	NEW
FBT040	40A	NEW	FBT300	300A	
FBT050	50A		FBT325	325A	
FBT060	60A	NEW	FBT350	350A	NEW
FBT080	80A		FBT355	355A	NEW
FBT100	100A		FBT400	400A	
FBT125	125A		FBT425	425A	
FBT130	130A	NEW	FBT500	500A	NEW
FBT150	150A	NEW	FBT600	600A	NEW
FBT175	175A	NEW	FBT675	675A	NEW
FBT200	200A		FBT750	750A	NEW
FBT225	225A	NEW	FBT800	800A	NEW

Straight Fork and 90 Degree Type Lugs

Voltage: 48VDC (30A-425A), 80VDC (500A-800A)
I.R.: 2.5kA at 48VDC, 4kA at 80VDC.
Characteristic: Fast Acting
Mounting: M10 studs.
Feature: Element window.
Pack Size: 1, 10, 20, 50
Notes: Suitable for battery-powered vehicles.
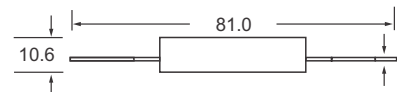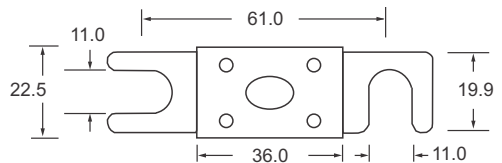**Approvals:** Ref: UL 248, DIN 43560 c𝐔Lus RoHS

RELATED PRODUCTS:

Fuse Block & Cover
(see p.101)

Fuse Block
(see p.101)

Dimensions in MM
1.0 (<325A)
1.5 (<600A)
2.0 (<800A)

PROLEC

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ANL LIFT TRUCK FUSES 80V

EAT·N **Bussmann**

Forklift truck and battery isolator fuses are specially designed for the heavy duty loads associated with DC battery powered equipment such as forklift trucks, hand trucks, motorized work platforms, and other DC battery operated systems. Rugged construction and stud mounted bolt-in design assure a long life in adverse conditions.

Part Number	Ampere Rating	Part Number	Ampere Rating
ANL035	35A	ANL225	225A
ANL040	40A	ANL250	250A
ANL050	50A	ANL275	275A
ANL060	60A	ANL300	300A
ANL080	80A	ANL325	325A
ANL100	100A	ANL350	350A
ANL125	125A	ANL400	400A
ANL130	130A	ANL500	500A
ANL150	150A	ANL600	600A
ANL175	175A	ANL675	675A
ANL200	200A	ANL750	750A

I.R.: 6kA (35A to 500A, 32VAC), 2.7kA (600A to 750A, 32VAC) 2.7kA (All ratings, 80VDC)
Voltage: 32VAC / 80VDC
Characteristic: Fast Acting
Features: Ignition Proof (<500A). Silver plated copper link.
Mounting: M8 or 5/16" studs
Features: Element visible inspection mica window.
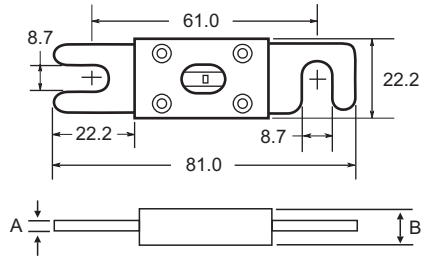**Holders:** Block. **Pack Size:** 1, 5, 10, 100
Approvals: *SAE* Ignition Protected (35A to 500A)
 ꭃ (600A, 675A & 750A ratings)

RELATED PRODUCTS: **Fuse Block** (see p.101)

ANL Series	Dimensions in MM	
Ampere Rating	A	B
35A to 200A	0.45	7.55
225A to 325A	1.40	8.70
350A to 675A	2.70	9.50
750A	3.35	10.9

ANN LIFT TRUCK FUSES 80V

EAT·N **Bussmann**

Part Number	Ampere Rating	Part Number	Ampere Rating
ANN010	10A	ANN225	225A
ANN035	35A	ANN250	250A
ANN040	40A	ANN275	275A
ANN050	50A	ANN300	300A
ANN060	60A	ANN325	325A
ANN080	80A	ANN350	350A
ANN090	90A	ANN400	400A
ANN100	100A	ANN500	500A
ANN125	125A	ANN600	600A
ANN150	150A	ANN700	700A
ANN175	175A	ANN800	800A
ANN200	200A		

I.R.: 2.5kA (125VAC), 2.7kA (80VDC)
Voltage: 125VAC / 80VDC
Characteristic: Very Fast Acting
Mounting: M8 or 5/16" studs
Features: Element visible inspection mica window.
Holders: Block. **Pack Size:** 1, 5, 10, 100
Notes: ANN series is not ignition proof
Approvals: ꭃ ⓒ (35A-400A, 500A DC only)

RELATED PRODUCTS: **Fuse Block** (see p.101)
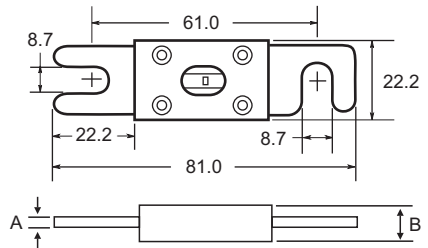
ANN Series	Dimensions in MM	
Ampere Rating	A	B
10A to 300A	1.19	9.12
325A to 600A	4.47	12.70
700A to 800A	5.94	13.49

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BATTERY FUSE - MARINE RATED 58V

EAT•N **Bussmann**

IP66 | IGNITION PROTECTED

Marine Rated Battery Fuses - Designed for the most demanding environment to provide high current protection for the tightest space constraints. Suitable for main and auxiliary circuit protection such as alternator outputs, starter motor inputs, and accessory circuits. The breaking capacity meets the requirements of conventional vehicle batteries and 12V, 24V and 42V electrical networks.
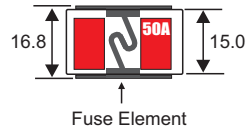
Features:
- Extensive amperage range 30A to 300A.
- Voltage rating 58VDC max.
- Ignition protected per SAE J1117.
- Weatherproof (IP66).
- Functional after 500 hours salt spray and salt fog test.
- Clear element window, visual indication of blown condition.
- Colour coded for easy amperage identification.
- Several mounting options. Accept mounting terminal size M8 max.
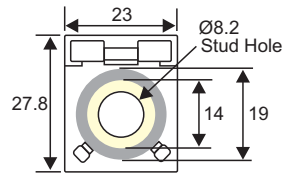- Performance requirements per ISO8820-6.

Part Number	Ampere Rating	Face Colour
MRBF030	30A	Lt. Green
MRBF040	40A	Lt. Blue
MRBF050	50A	Red
MRBF060	60A	Gold
MRBF075	75A	Brown
MRBF080	80A	Lime
MRBF090	90A	Purple
MRBF100	100A	Yellow
MRBF125	125A	Green
MRBF150	150A	Orange
MRBF175	175A	White
MRBF200	200A	Blue
MRBF225	225A	Tan
MRBF250	250A	Pink
MRBF300	300A	Grey

Voltage: 58VDC
I.R.: 2kA at 58VDC, 5kA at 32VDC, 10kA at 14 VDC
Characteristic: Slow Acting
Pack Size: 1, 10, 100
Housing: UL-rated 94V0 thermoplastic
Body: Ceramic
Ring Terminals: Tin plated
Holders: Battery Fuse Bar.
Mounting: 1/4"-20 or M8 studs
Approvals: ISO8820-6 *SAE*

Transparent cover with colour coded front face.

Side View 16.8 | 50A | 15.0

Fuse Element

Top View

23
Ø8.2 Stud Hole
27.8
14 | 19

Dimensions in MM

Scan this QR Code for more information

QR Code: 3000

RELATED PRODUCTS:

Marine Rated Battery Fuse Assortment Kit
(see p.41)

Fuse Bar Single Pole Kit
(see p.106)

Fuse Bar Double Pole Kit
(see p.106)

NEW

Bussed Fuse Block Multi Pole
(see p.108)

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Littelfuse®

The Zcase Single Mega Starter Fuse is a minimal footprint bolt down fuse with a wide rating range up to 600A in the same packaging size. The Time Current characteristic is similar to the well known Mega fuse and fuse ratings up to 250A can used for full wire protection. Higher fuse ratings mostly used for typically Starter Fuse application as a protector fuse. The fuse can used directly on a battery post or busbar connection. Littelfuse is offering a complete solution for the necessary stud and different busbar connections including some battery clamps.

Features:
• Extensive amperage range 40A to 600A.
• Voltage rating 32VDC max.
• Accept mounting terminal size M8 max.
• Several mounting options, stud and post.
• Multi position busbar fed fuse blocks available.

M8 Part Number	Ampere Rating	Wire Size	
3298040	40A	4mm²	NEW
3298060	60A	6mm²	NEW
3298080	80A	10mm²	NEW
3298100	100A	16mm²	NEW
3298125	125A	16mm²	
3298150	150A	25mm²	
3298175	175A	25mm²	
3298200	200A	35mm²	
3298225	225A	35mm²	
3298250	250A	50mm²	
3298300	300A	35mm²	
3298350	350A	35mm²	
3298400	400A	50mm²	
3298500	500A	50mm²	
3298600	600A	50mm²	
3298900	Shunt	50mm²	NEW

ZCASE Shunt

ZCASE Fuse
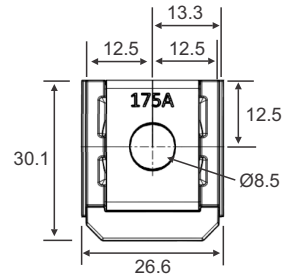
Dimensions in MM

Voltage: 32VDC   **I.R.:** 2kA at 32VDC
Characteristic: Slow Acting
Cover / Base: PPA (33% GF)
Operating Temp: -40°C to 125 °C.
Insulating Tube: Ceramic
Terminal: Copper Tin Plated
Mounting: M6 or M8 stud (40A - 250A), M8 stud (300A - 600A).
Pack Size: 1, 5,10, 100, 480
Holders: Stud Terminal Mount 1 Way and 2 Stacked.
        Top Post Terminal Mount 2 and 3 Way.
         Fuse Block 5 and 7 Way.
Zcase Options with M10 Mounting Terminal Type:
•Battery Fuse Zcase M10: 32V (80A to 600A), #3298xxx.ZXM10.
•Battery Shunt Zcase M10: 32V, #3298900.ZXM10.
•Materials Handling Fuse Zcase M10: 80V (70A to 600A), #3998xxx.ZXM10.
•Materials Handling Shunt Zcase M10: 80V, #3998900.ZXM10.
•Sealed Battery Fuse Zcase M10: 600A 80VDC. Explosion Proof version is also available with Sealed Fuse Mount.
Please contact sales for further information on all of the above variants.

RELATED PRODUCTS:
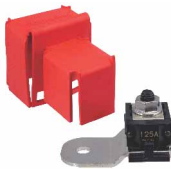
M8 Terminal Fuse Bar & Cover
Stud Mount (p.107)

Battery Mount Fuse Bar & Cover
Post Mount (p.107 & 109)

Multi-Pole Fuse Blocks
(see p.108 - 109)

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MULTI-POLE BATTERY TERMINAL FUSES 32V

EAT•N **Bussmann**

NEW

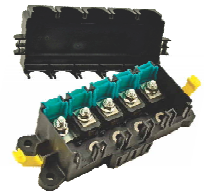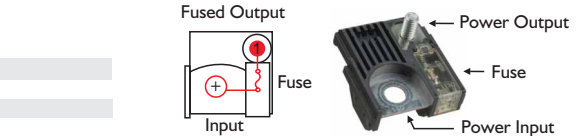Battery terminal fuses are fuses containing one or more fuse elements of different ampere ratings for protecting circuits directly from the battery's terminal. Their function is to protect the conductors and not the devices on the circuit(s). They are the OEM equivalent to those part numbers used on popular models of Chrysler, Ford, Lexus, Lincoln, Mitsubishi, Nissan, Subaru, Suzuki, and Toyota vehicles since 2001.
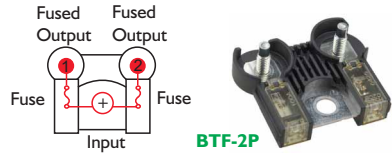
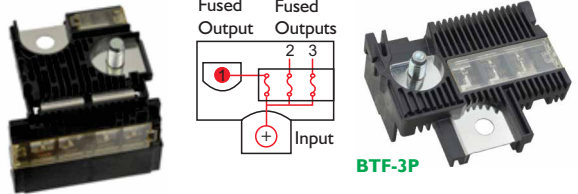| Part Number	Nbr. Poles	Ampere Ratings
BTF-1P-80	1	80A
BTF-1P-100	1	100A
BTF-1P-120	1	120A
BTF-1P-140	1	140A
BTF-2P-180120	2	180A, 120A
BTF-2P-200100	2	200A, 100A
BTF-2P-250125	2	250A, 125A
BTF-3P-1206080	3	120A, 60A, 80A
BTF-3P-1208080	3	120A, 80A, 80A
BTF-5P-1010868	5	100A, 100A, 80A, 60A, 80A
BTF-5P-1210868	5	120A, 100A, 80A, 60A, 80A
BTF-5P-141010108	5	140A, 100A, 100A, 100A, 80A
BTF-5P-25010888	5	250A, 100A, 80A, 80A, 80A
BTF-5P-225106108	5	225A, 100A, 60A, 100A, 80A

Voltage: 32VDC
I.R.: 1000A at 32VDC
Operating Temperature: -40°C to +120°C.
Body: PS-S-GF35
Element: Copper Alloy
Clear Fuse Cover: Amp stamp
Pack Size: 1, 3, 5
Approvals: ISO8820-4, JASO D612-4 RoHS

Fused Output — Fuse — Input
BTF-1P — Power Output, Fuse, Power Input

Fused Output, Fused Output — Fuse, Fuse — Input
BTF-2P

Fused Output, Fused Outputs — Input
BTF-3P

BTF-5P Contact sales for circuit diagram.

MULTI SLOW BLOW FUSES 32V

EAT•N **Bussmann**

NEW

The new line of Bussmann series multi slow-blow fuses address the automotive manufacturers' move to design custom circuit protection technology for their vehicles.

Part Number	Nbr. Poles	Ampere Ratings
MUSB-A1	2	100A, 70A
MUSB-A2	2	120A, 70A
MUSB-A3	2	100A, 40A
MUSB-A4	2	120A, 40A
MUSB-L1-2	6	70A, 30A, 40A, 20A, 30A, 100A
MUSB-L1-4	6	70A, 40A, 20A, 40A, 30A, 120A
MUSB-L3-1	4	20A, 20A, 20A, 20A
MUSB-L3-3	4	30A, 30A, 30A, 30A
MUSB-L3-5	4	30A, 40A, 30A, 40A
MUSB-M2-1	11	50A, 60A, 60A, 30A, 30A, 30A, 30A, 40A, 30A, 20A, 20A
MUSB-M4-1	10	50A, 60A, 60A, 50A, 30A, 30A, 40A, 30A, 30A, 40A
MUSB-T1	4	125A, 100A, 325A, Shunt
MUSB-T4	4	125A, 80A, 300A, Shunt
MUSB-T5	4	Shunt, 285A, 200A, 125A

Voltage: 32VDC
I.R.: 1000A at 32VDC
Clear Fuse Cover: Element window
Pack Size: To be confirmed.

MUSB-A

MUSB-L3

**MUSB-M2**

MUSB-T

MUSB-M4

MUSB-L1

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CLASS T HIGH INTERRUPT 160V

EAT·N Bussmann

Features
- Circuit protection for devices including most inverter manufacturers.
- High interrupt capacity for large battery banks including Lithium-Ion and TPPL batteries.
- 200kA interrupting rating provides high ratings at all circuit locations.
- Current limitation for non-inductive circuits. Current-limiting response to short-circuit conditions.
- Small footprint allows more efficient use of available space.

Part Number	Ampere Rating	Part Number	Ampere Rating
JJN070	70A	JJN225	225A
JJN080	80A	JJN250	250A
JJN090	90A	JJN300	300A
JJN100	100A	JJN350	350A
JJN110	110A	JJN400	400A
JJN125	125A	JJN450	450A
JJN150	150A	JJN500	500A
JJN175	175A	JJN600	600A
JJN200	200A		
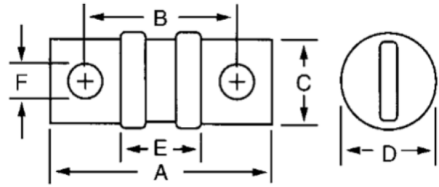
Voltage: 300VAC (70A to 600A)
160VDC (70A to 600A)
I.R.: 200kA at 300VAC (70A to 600A)
20kA at 160VDC (70A to 600A)
Characteristic: Very fast acting
Extended Ratings: 1A-60A & 700A-1200A contact sales.
Holders: Blocks
Pack Size: Varies 1, 5, 10.
Approvals: (UL) (c-UL) CE

RELATED PRODUCTS: **Modular Fuse Blocks** (see p.104)

Ampere Rating	A	B	C	D	E	F
70A to 100A	54.8	39.7	19.1	20.6	21.4	7.2
110A to 200A	61.9	42.9	22.2	27.0	21.4	8.7
225A to 400A	69.9	46.8	25.4	33.3	21.0	10.3
450A to 600A	77.8	51.6	31.8	40.5	22.4	12.3

Dimensions in MM

ELECTRIC VEHICLE FUSES - INTRODUCTION

Adler

Just as every other car, electrical vehicles contain electrical components which need to be protected from dangerous over current and short circuits. On top of these lower-voltage components, EVs also have high voltage DC parts like high-capacity battery packs, power conversion devices and other auxiliary circuits. Being direct current, fuses for these applications must meet special requirements for a safe and reliable operation. The same applies to EV fast charging stations which are able to deliver high DC currents. They are an important pillar of e-mobility and the appropriate protection is important for making them reliable and available.

To fit the needed electrical fuses into the automotive environment, ADLER decided to develop completely new fuse designs. Ordinary semiconductor fuses with ceramic bodies are simply not suitable for the high mechanical and thermal stress inside a car. Adler EV fuses are designed in compliance with automotive standards, for example ISO 8820-8 and JASO D622. Additionally, they are available with melamine laminated glass fiber bodies which are able to withstand mechanical shocks and vibrations to avoid long-term damages. With a product portfolio ranging from 200 VDC to 1000 VDC and different sizes, we can offer the right fuse for your application – be it main or auxiliary circuits for electric vehicles, charging stations or DC converters.

SMD, PCB, Cartridge Fuses, Blocks & Clips

10A - 50A @ 200V
1A - 50A @ 500V
5A - 50A @ 850V
0.8A - 60A @ 1000V

Flush Tag Fuses & Blocks
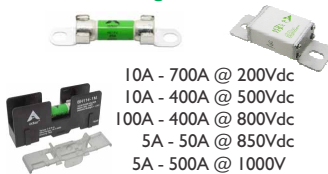
10A - 700A @ 200Vdc
10A - 400A @ 500Vdc
100A - 400A @ 800Vdc
5A - 50A @ 850Vdc
5A - 500A @ 1000V
100A - 300A @ 1500Vdc

Threaded, Centre Tag Fuses & Blocks

50A - 700A @ 500Vdc
60A - 600A @ 800Vdc
5A - 50A @ 850Vdc
10A - 800A @ 1000Vdc

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ELECTRIC VEHICLE AUXILIARY FUSES AE2 500V

General purpose fuse for EV / HEV auxiliary protection.

Cartridge

Part Number	Part Number (Flush Bolted)	Ampere Rating
AE22100607	AE22100605	10A
AE22150607	AE22150605	15A
AE22200607	AE22200605	20A
AE22250607	AE22250605	25A
AE22300607	AE22300605	30A
AE22350607	AE22350605	35A
AE22400607	AE22400605	40A
AE22500607	AE22500605	50A

Ferrule Cartridge

NEW
EV

10.3
38.1

Flush Bolted Tag

8
38.1
6
10.3
54.4
65.9
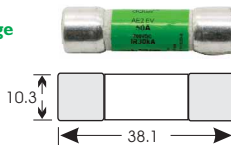
Voltage: 500VDC   **I.R.:** 20kA at 500VDC.
Time Constant: 1-3ms
Holders (Cartridge): Clips, Blocks, Carriers & Inline.
Holders (Flush Bolted): Fuse block.
Terminal Options: PCB Mount & Centre tag.
Approvals: ⮧ UL 248-20, ⮧ TUV, ISO 8820-8; GB/T 31465.6

RELATED PRODUCTS:

Fuse Clips
BC800 (see p.68)

Cartridge Fuse Block
BH114-1C (see p.102)
BH114-CN (see p.102)

Flush Tag Fuse Block
BH114-1M (see p.102)
BH114-CN (see p.102)

ELECTRIC VEHICLE PDU FUSES AE5 500V

Special purpose fuse for EV / HEV automotive use. Ideal for high power
EV PDU and battery protection. 500VDC EV high-speed power fuse.

Part Number	Ampere Rating
AE52500620	50A
AE52600620	60A
AE52700620	70A
AE52800620	80A
AE53100620	100A
AE53125620	125A
AE53150620	150A
AE53100625	100A
AE53125625	125A
AE53150625	150A
AE53175625	175A
AE53200625	200A
AE53225625	225A
AE53250625	250A
AE53200631	200A
AE53225631	225A
AE53250631	250A
AE53300631	300A
AE53350631	350A
AE53400631	400A
AE53400638	400A
AE53500638	500A
AE53500651	500A
AE53600651	600A
AE53700651	700A

NEW
EV
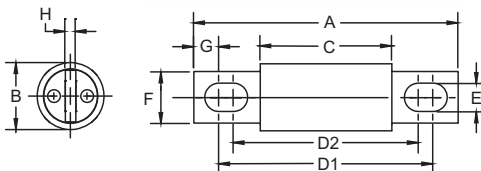
Dimensions in MM

Series	Amperage	A	B	C	D1	D2	E	F	H
AE5…620	50A-150A	81	21	40	66	57	8.5	15	3.2
AE5…625	100A-250A	89	25	44	73	71	9.0	18	3.2
AE5…631	200A-400A	92	31	53	76	69	8.5	22	5
AE5…638	400A-500A	110	38	53	88	70	10.5	24.8	6
AE5…651	500A-700A	110	51	53	90	71	10.5	38	6

I.R.: 50kA (Self Cert.), 30kA (TUV) at 500VDC
Voltage: 500VDC
Time Constant: (L/R) 2 +/- 0.5ms
Ref: JASO D622, ISO 8820-8, GB/T 31465
Approvals: ⮧ TUV (50A-400A) RoHS REACH

RELATED PRODUCTS:

Fixed EV Fuse Blocks
(see p103.)

Modular Fuse Blocks
(see p104.)

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Web: www.prolecproducts.com.au

ELECTRIC VEHICLE AUXILIARY FUSES AE3 850V

General purpose fuse for EV / HEV auxiliary protection.

Ferrule Cartridge

Flush Bolted Tag

Cartridge Part Number	Flush Bolted Part Number	Ampere Rating
AE31500i07	AE31500i05	5A
AE31800i07	AE31800i05	8A
AE32100i07	AE32100i05	10A
AE32150i07	AE32150i05	15A
AE32200i07	AE32200i05	20A
AE32250i07	AE32250i05	25A
AE32300i07	AE32300i05	30A
AE32350i07	AE32350i05	35A
AE32400i07	AE32400i05	40A
AE32450i07	AE32450i05	45A
AE32500i07	AE32500i05	50A
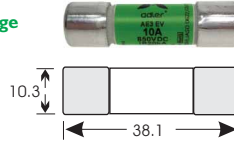
Voltage: 850VDC   **I.R.:** 20kA at 850VDC.
Time Constant: 1-3ms
Pack Size: 10pcs.
Holders (Cartridge): Fuse clips, Fuse block, Carrier, Inline.
Holders (Flush Bolted): Fuse block.
Terminal Options: PCB Mount & Centre tag also available.
Product Options: 1000VDC 5A-15A version also available AE6.
Approvals: UL 248-20, JASO D622, ISO 8820-8; GB/T 31465.6

RELATED PRODUCTS:

Fuse Clips
BC800 (see p.68)

Cartridge Fuse Block
BH114-1C (see p.102)
BH114-CN (see p.102)

Flush Tag Fuse Block
BH114-1M (see p.102)
BH114-CN (see p.102)

ELECTRIC VEHICLE PDU FUSES AE7 800V

Part Number	Ampere Rating
AE72600i25	60A
AE72700i25	70A
AE72800i25	80A
AE73100i25	100A
AE73125i25	125A
AE73150i25	150A
AE73175i38	175A
AE73200i38	200A
AE73250i38	250A
AE73300i38	300A
AE73350i38	350A
AE73400i38	400A
AE73450i51	450A
AE73500i51	500A
AE73560i51	560A
AE73600i51	600A
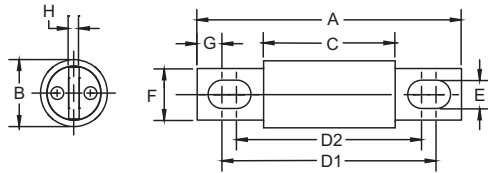
I.R.: 50kA at 800VDC
Voltage: 800VDC
Time Constant: (L/R) 2 +/- 0.5ms
Holders: Modular fuse blocks.
Approvals: IEC 60269-4, ISO 8820

Dimensions in MM

Series	Amperage	A	B	C	D1	D2	E	F	H
AE7...i25	60A-150A	111	25	66	95	93	9	18	3
AE7...i38	175A-400A	129	38	72	107	89	10.5	25	6
AE7...i51	450A-600A	129	51	72	109	90	10.5	38	6

RELATED PRODUCTS:

Fixed EV Fuse Blocks
(see p103.)

Modular Fuse Blocks
(see p104.)

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Web: www.prolecproducts.com.au

ELECTRIC VEHICLE PDU FUSES AE6 1000V

Engineered to provide best in class auxiliary and high performance protection in managing systems of electrical and hybrid electrical vehicles.

Cartridge Part Number	Flush Bolted Tag Part Number	Ampere Rating
AE61500A00	AE61500A02	5A
AE61600A00	AE61600A02	6A
AE61800A00	AE61800A02	8A
AE62100A00	AE62100A02	10A
AE62150A00	AE62150A02	15A
AE62200A00	AE62200A02	20A
AE62250A00	AE62250A02	25A
AE62300A00	AE62300A02	30A
--	AE62200B02	20A
--	AE62250B02	25A
--	AE62300B02	30A
AE62350C00	AE62350C02	35A
AE62400C00	AE62400C02	40A
AE62500C00	AE62500C02	50A
AE62600C00	AE62600C02	60A

Ferrule Cartridge
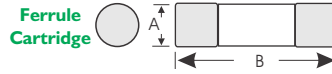
Series	Amperage	A	B
AE6…A00	5A-30A	10	38
AE6…B00	20A-30A	14	51
AE6…C00	35A-60A	14	65

Voltage: 1000VDC   **I.R.:** 20kA at 1000VDC.
Time Constant: 2 ± 0.5ms
Terminal Options: Centre tag & PCB mount.
Approvals: UL 248-20, JASO D622, ISO 8820-8; GB/T 31465.6

Flush Bolted Tag
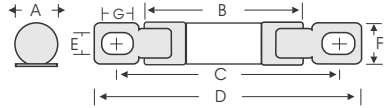
RELATED PRODUCTS:

Fuse Clips
(see p.68)

Fuse Blocks
(see p.102)

		Dimensions in MM					
Series	Amperage	A	B	C	D	E	F	G
AE6…A02	5A -15A	10.3	38	53.5	64	5.3	12	7
AE6…B02	20A -30A	14.2	51	72.0	86	6.5	12	9.4
AE6…C02	35A -60A	14.2	65	87.0	101	6.5	12	9.4

ELECTRIC VEHICLE PDU FUSES AEX 1000V

Special purpose fuse for EV / HEV automotive use. Ideal for high power EV PDU and battery protection. 1000VDC EV high-speed power fuse.

Part Number	Ampere Rating
AEX2700731	70A
AEX2800731	80A
AEX2900731	90A
AEX3100731	100A
AEX3125738	125A
AEX3150738	150A
AEX3175738	175A
AEX3200738	200A
AEX3250751	250A
AEX3300751	300A
AEX3350751	350A
AEX3400751	400A
AEX3500751	500A
AEX3600764	600A
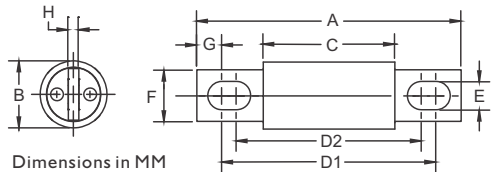
Voltage: 1000VDC   **I.R.:** 50kA at 1000VDC
Time Constant: (L/R) 2 ± 0.5ms
Approvals Ref: IEC 60269-4

RELATED PRODUCTS:

Fixed Fuse Blocks
(see p103.)

Modular Fuse Blocks
(see p104.)

Dimensions in MM

Series	Amperage	A	B	C	D1	D2	E	F	H
AEX…731	70A-100A	125	31	86	109	102	8.5	22	5
AEX…738	125A-200A	140	38	83	118	100	10.5	25	6
AEX…751	250A-500A	146	51	89	126	107	10.5	38	6
AEX…764	600A	196	64	88	162	122	13	50	10

PROLEC

NEW

Assortment of genuine original equipment fuse types. Suits most models. Ideal for glove box offering instant replacement when on the road. The clear plastic container features a snap lock closing lid.

Micro2, Micro3 & MCase Fuse Assortment - 16pcs

Part Number	Pack Contains
MICR000AP	Micro2 Blade Fuses: MICR2 (1pc): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
	Micro3 Blade Fuses: MICR3 (1pc): 5A, 7.5A, 10A, 15A
	Mcase Fuse Links: MJC (1pc):15A, 20A, 25A, 30A, 40A

Auto & Mini Fuse Assortment - 15pcs

Part Number	Pack Contains
ATMN000AP	Auto Fuses: ATOF (1pc): 5A, 10A, 15A, 20A, 25A, 30A
	Mini Fuses: MIN (1pc): 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
	Fuse Puller: Auto / Mini (1pc)

Chrysler, Dodge, Jeep Fuse Assortment - 16pcs

Part Number	Pack Contains
CDJ000AP	Mini Blade Fuses: MIN (1pc): 7.5A, 25A, 30A, (3pcs): 10A, 15A, (2pcs) 20A
	Jcase Fuse Links: JTF (1pc):20A, 30A, 40A, 50A
	Fuse Puller: (1pc) Mini, Jcase

Ford & GM Fuse Assortment - 20pcs

Part Number	Pack Contains
FDGM000AP	Mini Blade Fuses: MIN (1pc): 7.5A, 25A, 30A, (3pcs): 10A, 15A, (2pcs) 20A
	Low Profile Mini Fuses: LPM (1pc): 10A, 15A
	Low Profile Jcase Fuse Links: LJC (1pc):30A, 40A
	Jcase Fuse Links: JTF (1pc):20A, 30A, 40A, 50A
	Fuse Puller: (1pc) Mini, Low Profile Mini, Jcase

Hyundai, Kia, Genesis Fuse Assortment - 24pcs

Part Number	Pack Contains
HYD000AP	Micro2 Blade Fuses: MICR2 (1pc): 10A, 15A, 20A, 25A, 30A
	Mini Fuses: MIN (1pc): 10A, 15A, 20A, 25A, 30A
	Low Profile Mini Fuses: LPM (1pc): 7.5A, 10A, 15A, 20A, 25A, 30A
	Low Profile Jcase Fuse Links: LJC (1pc):20A, 30A, 40A
	Jcase Fuse Links: JTF (1pc):30A, 40A, 50A
	Fuse Puller: (1pc) Micro2, Mini, Low Profile Mini
	Fuse Puller: (1pc) Jcase, Low Profile Jcase

Nissan & Infiniti Fuse Assortment - 29pcs

Part Number	Pack Contains
NSN000AP	Auto Fuses: ATOF (1pc): 5A, 7.5A, 10A, 15A, 20A, 30A, 40A
	Mini Fuses: MIN (1pc): 2A, 3A, 4A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
	Micro2 Blade Fuses: MICR2 (1pc): 5A, 10A, 15A, 20A, 30A
	Mcase+ Fuse Links: MCPS (1pc):30A, 40A, 50A, 60A
	Fuse Pullers: (1pc) Micro2 , Auto, Mini, (1pc) Mcase

Toyota & Lexus Fuse Assortment - 15pcs

Part Number	Pack Contains
TYT000AP	Micro2 Blade Fuses: MICR2 (1pc): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
	Low Profile Mini Fuses: LPM (1pc): 5A, 7.5A, 10A, 15A, 20A, 30A
	Fuse Puller: (1pc) Micro2, Low Profile Mini

PROLEC

FUSE ASSORTMENT PACKS

PROLEC

Features:
- Genuine original equipment fuses.
- Clear plastic re-sealable container.
- Australian designed and kitted locally.
- Custom kits are also available upon request.
- Suit retail peg boards and counter stands.
- Detailed product information on rear side.

Littelfuse

PEC

Micro2 Blade Fuse Assortment - 35pcs

Part Number	Pack Contains
MICR2-KIT2	MICR2 (5pcs): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A

Low Profile Mini Blade Fuse Assortment - 35pcs

Part Number	Pack Contains
LPM-KIT2	LPM (5pcs): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A

Mini Blade Fuse Assortment - 35pcs

Part Number	Pack Contains
MINI-KIT2	MIN (5pcs): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A

Auto Blade Fuse Assortment - 35pcs

Part Number	Pack Contains
AUTO-KIT2	ATOF (5pcs): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A

5 Cavities

LED INDICATING FUSE ASSORTMENT PACKS

PROLEC

Prolec's LED indicating blade fuse assortment packs were a finalist in the Australian Automotive Aftermarket Associations product category for the Most Innovative New Packaging.

LED Mini Blade Fuse Assortment - 16pcs

Part Number	Pack Contains
MIND-KIT2	MIND (2pcs): 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
	Bonus Fuse Puller (1pc): FP-7AM

Bonus Fuse Puller

Back

Front

LED Auto Blade Fuse Assortment - 16pcs

Part Number	Pack Contains
ATFD-KIT2	ATFD (2pcs): 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
	Bonus Fuse Puller (1pc): FP-7AM

Bonus Fuse Puller

Product Details

5 Cavities

PROLEC

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PROLEC

Features:
- Genuine original equipment fuses.
- Clear plastic re-sealable container.
- Australian designed and kitted locally.
- Custom kits are also available upon request.
- Suit trade workshop, store or mobile van.
- Detailed product information on rear side.

FUSES + KITS

Micro2 Blade Fuse Assortment - 90pcs
Littelfuse

UPDATED

Part Number
MICR2-KIT

Kit Contains
Micro2 Blade Fuses;
MICR2 (10pcs): 5A, 7.5A, 15A, 25A, 30A
MICR2 (20pcs): 10A, 20A

Micro2

Micro2 & Micro3 Blade Fuse Assortment - 55pcs
Littelfuse

Part Number
MICR2+3-KIT

Kit Contains
Micro2 Blade Fuses;
MICR2 Blade Fuses (5pcs): 5A, 7.5A, 10A, 15A,
MICR2 Blade Fuses (5pcs): 20A, 25A, 30A

Micro3 Blade Fuses;
MICR3 Blade Fuses (5pcs): 5A, 7.5A, 10A, 15A

Micro2   **Micro3**

Micro Fuse Range Assortment - 136pcs
Littelfuse   **PEC**

UPDATED

Part Number
MICROASST-KIT

Kit Contains
Micro2 Blade Fuses;
MICR2 (10pcs): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A

Micro3 Blade Fuses;
MICR3 (10pcs): 5A, 7.5A, 10A, 15A

Mcase Fuse Links;
MJC (5pc):15A, 20A, 25A, 30A, 40A

Micro2 & Micro3 Fuse Puller;
Fuse Puller (1pc): 00970025

Fuse Puller   **Micro2**   **Micro3**   **Mcase**

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PROLEC

Features:
- Genuine original equipment fuses.
- Clear plastic re-sealable container.
- Australian designed and kitted locally.
- Custom kits are also available upon request.
- Suit trade workshop, store or mobile van.
- Detailed product information on rear side.

FUSES + KITS

AGC 3AG Fuse Assortment - 100pcs

Littelfuse

NEW

Part Number	Kit Contains
AGC-KIT	AGC (10pcs): 1A, 3A, 5A, 7.5A, 10A,
	AGC (10pcs): 15A, 20A, 25A, 30A, 35A
	Note: Imperial Dimensions(1-1/4" x 1/4")
	Metric Dimensions(6.35 x 31.8mm)

AGC / 3AG

Low Profile Mini Blade Fuse Assortment - 100pcs

PEC

UPDATED

Part Number	Kit Contains
LPM-KIT	LPM (10pcs): 3A, 5A, 7.5A, 15A, 25A, 30A,
	LPM (20pcs): 10A, 20A
	Bonus Fuse Puller (1pc): FP-7AM

Fuse Puller   **Low Profile Mini**

Mini Blade Fuse Assortment - 100pcs

Littelfuse

Part Number	Kit Contains
MINI-KIT	MIN (10pcs): 3A, 5A, 7.5A, 15A, 25A, 30A,
	MIN (20pcs): 10A, 20A

Mini

LED Mini Blade Fuse Assortment - 80pcs

Part Number	Kit Contains
MIND-KIT	MIND (10pcs): 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
	Bonus Fuse Puller (1pc): FP-7AM

Fuse Puller   **LED Mini / ATM**

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FUSE ASSORTMENT KITS - LOW PROFILE MINI, AUTO & MAXI

PROLEC

FUSES + KITS

Features:
- Genuine original equipment fuses.
- Clear plastic re-sealable container.
- Australian designed and kitted locally.
- Custom kits are also available upon request.
- Suit trade workshop, store or mobile van.
- Detailed product information on rear side.

Auto Blade Fuse Assortment - 100pcs

Littelfuse

Part Number	Kit Contains
AUTO-KIT	ATOF (10pcs): 3A, 5A, 7.5A, 15A, 25A, 30A
	ATOF (20pcs): 10A, 20A

Auto / ATO

LED Auto Blade Fuse Assortment - 80pcs

NEW

Part Number	Kit Contains
ATFD-KIT	ATFD (10pcs): 3A, 5A, 7.5A, 10A,
	ATFD (10pcs): 15A, 20A, 25A, 30A
	Bonus Fuse Puller
	(1pc): FP-7AM

Fuse Puller

LED Auto / ATC

Maxi Blade Fuse Assortment - 32pcs

Littelfuse

Part Number	Kit Contains
MAXI-KIT	MAX (4pcs): 20A, 30A, 40A
	MAX (4pcs): 50A, 60A, 70A
	MAX (4pcs): 80A, 100A

Maxi

LED Maxi Blade Fuse Assortment - 17pcs

NEW

Part Number	Kit Contains
MAXD-KIT	MAXD (2pcs): 20A, 30A, 40A
	MAXD (2pcs): 50A, 60A, 70A
	MAXD (2pcs): 80A, 100A
	Fuse Puller
	(1pc): 00970026

Fuse Puller

LED Maxi / MAX

PROLEC

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FUSE ASSORTMENT KITS - MCASES, JCASE, LINKS & MAXI

PROLEC

FUSES + KITS

Features:
• Genuine original equipment fuses.
• Clear plastic re-sealable container.
• Australian designed and kitted locally.
• Custom kits are also available upon request.
• Suit trade workshop, store or mobile van.
• Detailed product information on rear side.

Mcase+ Slotted Fuse Assortment - 29pcs *Littelfuse* **NEW**

Part Number
MCASEPS-KIT

Kit Contains
MCPS (4pcs): 15A, 20A, 25A, 30A
MCPS (4pcs): 40A, 50A, 60A

Bonus Fuse Puller
(1pc): 00970054

Fuse Puller

Mcase+ Slotted

Mcase Fuse Assortment - 50pcs *PEC*

Part Number
MCASE-KIT

Kit Contains
MJC (10pcs): 15A, 20A, 25A
MJC (10pcs): 30A, 40A

Mcase (Unslotted)

Low Profile Jcase Fuse Assortment - 25pcs *PEC* **NEW**

Part Number
LPJCASE-KIT25

Kit Contains
Low Profile Jcase Fuses;
LJC (4pcs): 20A, 25A, 30A
LJC (4pcs): 40A, 50A, 60A

Fuse Puller;
(1pc): 00970053

Fuse Puller

Low Profile Jcase

Jcase Fuse Assortment - 15pcs *PEC* **NEW**

Part Number
JCASE-KIT15

Kit Contains
Original Jcase Fuses;
JTF (2pcs): 20A, 40A,
JTF (2pcs): 50A, 60A
JTF (4pcs):30A
JTF (1pcs): 70A, 80A

Fuse Puller;
(1pc): 00970053

Fuse Puller

Jcase

40

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PROLEC

Features:
- Genuine original equipment fuses.
- Clear plastic re-sealable container.
- Australian designed and kitted locally.
- Custom kits are also available upon request.
- Suit trade workshop, store or mobile van.
- Detailed product information on rear side.

Midi Fuse Assortment - 20pcs

Littelfuse

NEW

Part Number	Kit Contains
MIDI-KIT2	MID (2pcs): 30A, 40A, 50A
	MID (2pcs): 60A, 70A, 80A
	MID (2pcs): 100A, 125A, 150A
	MID (2pcs): 200A

Midi Fuse & Block Installer Kit - 51pcs

Littelfuse   **MTA**

NEW

Part Number	Kit Contains Fuses & Fuse Blocks
MIDIPRO-KIT	MID (4pcs): 23A, 30A, 40A,
	MID (4pcs): 50A, 60A, 70A,
	MID (4pcs): 80A, 100A, 125A,
	MID (4pcs): 150A, 175A, 200A
	Fuse Block (2pcs): 125A MIDFBB
	Fuse Block (1pc): 200A 0101499

MIDFBB
(see page 82)

0101499
(see page 96)

Mega Fuse Assortment - 20pcs

Littelfuse

NEW

Part Number	Kit Contains
MEGA-KIT2	MEG (2pcs): 80A, 100A, 125A
	MEG (2pcs): 150A, 175A, 200A
	MEG (2pcs): 225A, 250A, 300A
	MEG (2pcs): 500A

Battery Fuse Assortment - 28pcs

E:T•N Bussmann

UPDATED

Part Number	Kit Contains
MRBF-KIT	MRBF (2pcs): 30A, 40A, 50A
	MRBF (2pcs): 60A, 75A, 80A
	MRBF (2pcs): 100A, 125A, 150A
	MRBF (2pcs): 175A, 200A, 225A
	MRBF (2pcs): 250A, 300A

PROLEC

MULTI FUSE ASSORTMENT KIT

PROLEC

Features:
- Genuine original equipment fuses.
- Designed and assembled locally.
- Custom kits are also available upon request.
- Contact Prolec for further information.

Blade Fuse Assortment - 300pcs

PEC   **Littelfuse**   NEW

Part Number
BLADE-KIT300

Kit Contains
Low Profile Mini Fuses;
LPM (10pcs): 7.5A, 10A, 15A, 20A, 25A, 30A

Mini Fuses;
MIN (20pcs): 7.5A, 10A, 15A, 20A, 25A, 30A

Auto Fuses;
ATOF (20pcs): 5A, 10A, 15A, 20A, 25A, 30A

Low Profile MINI   **MINI**   **AUTO**

Maxi & Auto Fuse Link Assortment - 36pcs

PEC   **Littelfuse**   NEW

Part Number
LINK-KIT36

Kit Contains
Maxi Blade Fuses;
MAX (2pcs): 20A, 30A, 40A
MAX (4pcs): 50A, 60A, 80A

Jcase Fuse Links;
JTF (2pcs): 30A

ASF Fuse Links;
ASF (2pcs): 30A, 60A
ASF (4pcs): 40A

BTF Fuse Links;
BTF (2pcs): 60A, 80A, 100A

MAXI   **JTF**

ASF   **BTF**

Commercial & Fleet Fuse Assortment - 50pcs

Littelfuse   NEW

Part Number
CFA-KIT

Kit Contains
Mini (2pcs): 2A, 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A

Auto Fuses (2pcs): 5A, 7.5A, 10A, 15A, 20A, 25A, 30A

Maxi Fuses (2pcs): 20A, 25A, 30A, 40A, 50A

Midi Fuses (1pc): 30A, 100A, 125A, 150A, 175A, 200A

Mega Fuses (1pc): 150A, 250A

Fuse Pullers (1pc): Mini / Auto, (1pc): Maxi

FUSE PULLER MINI / AUTO   **FUSE PULLER MAXI FUSE**   **MINI**   **AUTO**   **MAXI**   **MIDI**   **MEGA**

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FUSE ASSORTMENT CADDY 5 TRAY - 275PCS

E·T·N **Bussmann**

Fuse caddies offer a full array of fuses for automotive repair facilities to meet your automotive fuse replacement needs. Each caddy is specially stocked to cover the majority of cars, light trucks, SUVs and RVs on the road today. Easy to transport with folding handle and security latch. Replacement trays & individual product refills can be ordered as required.

Features:
• The 5 kit capacity caddy contains 275 fuses in popular ratings.
• 4 x ten-cavity kits contain ATM, low-profile ATM, ATC and MAX fuses.
• 1 x five-cavity kits contains FMX fuses.

Part Number
FUSE-CADDY1

Dimensions in MM
188 (W) x 114 (D) x 198 (H)

ATM	**ATM-LP**	**ATC**	**MAX**	**FMX**
Mini Fuses	Low Profile Mini Fuses	Auto Fuses	Maxi Fuses	Jcase Fuses

FUSE ASSORTMENT CADDY 10 TRAY - 372PCS

E·T·N **Bussmann**

Features:
• The 10 kit capacity caddy contains 372 fuses in popular ratings.
• 7 x kits contain an assortment of ATM, Low-Profile ATM, ATC, MAX, FMM, Low-Profile FMX, FLF, FLS, ATR, ATL Micro fuses.
• 3 x kits contain FMX, FLB, FLD, FLM, AMG & AMI fuses.
• Together, all ten kits meet virtually any automotive blade and high amp fuse replacement need.

Part Number
FUSE-CADDY2

Dimensions in mm
376 (W) x 114 (D) x 198 (H)

ATM	**ATM-LP**	**ATC**	**MAX**	**ATR & ATL**
Mini Fuses	Low Profile Mini Fuses	Auto Fuses	Maxi Fuses	Micro 2 & 3

FMM & FMX-LP	**FLF & FLS**	**FMX**	**FLB, FLD & FLM**	**AMI & AMG**
Mcase, LP Jcase	Female Fuse Links	Jcase Fuses	Male Fuse Links	Midi & Mega Fuses

Winner of the Australian Auto Aftermarket Innovation Award for Most Innovative New Packaging.

AUSTRALIAN AUTOMOTIVE
AFTERMARKET ASSOCIATION

Scan this QR Code for more information

QR Code: 3002

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43

BLADE FUSE, FUSIBLE LINK & BLADED BREAKER PULLERS

PROLEC

Features
• Fuse pullers allow quick and easy removal of a fuse.
• They can also be used to replace a fuse.

00358
FP-7AM

Part Number	Extracts Various Fuse Types
00358	Mini, Low Profile Mini & Auto Blade Fuses
FP-7AM	Mini, Low Profile Mini & Auto Blade Fuses
00970025	Micro2 & Micro3 Blade Fuses
00970026	Maxi Blade Fuse (Previously # 097027)
00970054	Mcase Fusible Link
00970053	Jcase & Low Profile Jcase, Low Profile Mini & Mini Fuses
32013BS	Low Pro Mini, Mini Fuse & Mini Breaker

Pack Size: 1, 10, 100

00970025 Littelfuse

00970026 Littelfuse

00970054 Littelfuse

00970053 Littelfuse

32013BS Bussmann

CARTRIDGE & AUTO BLADE FUSE PULLERS

EATON Bussmann

FP-A3
FP-2

Features
• Quick, safe and easy way to extract cartridge fuses.
• FP-A3 can extract cartridge and auto blade fuses.

Part Number	Extracts Various Fuse Types
FP-A3	Cartridge 'AG' 6.35mm Dia. & Auto Fuse
FP-2	Cartridge 'EV' 10.3mm Diameter Fuse

Pack Size: 1, 10, 100

Autofuse Blade Fuse

3AG / AGC Cartridge Fuse

BLADE FUSE PULLER & FUSE TESTER

EATON Bussmann

Features
• Combination fuse puller and fuse tester.
• Designed for easy one-handed use.
• Prevents fuse clip terminal & fuse holder damage.
• LED glows when fuse is good.
• Replaceable battery included.
• Tests Low Profile Mini, Mini, Auto, Maxi
  and various dimension Glass Cartridge Fuses.

Part Number	Extracts Various Fuse Types
FT-3	Low Profile Mini, Mini, Auto & Maxi

Voltage: 24VDC max.
Pack Size: 1, 10, 100
Notes: Do NOT test electrical fuses in the fuse panel.

Fuse Puller →

Finger Grips →

Front View Slidable Fuse Selector →
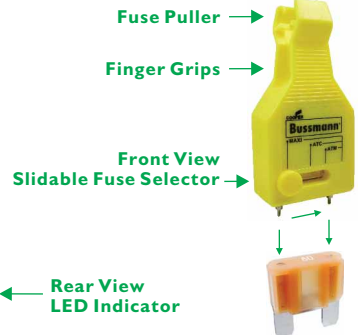
Rear View LED Indicator ←

Fuse Testing Pins ←

PROLEC

Circuit Breakers & Accessories

Innovation is where we begin.

CIRCUIT BREAKER SELECTION GUIDE

Series & Type	Reset Action	Ampere Range	Voltage	I.R. at Voltage	Ignition Protect	IP Rating	Page No/.
211 - Mini Blade	Automatic	5A to 30A	14Vdc	150A to 450A at 14Vdc	-	-	48
212 - Mini Blade	Modified	5A to 30A	14Vdc	150A to 450A at 14Vdc	-	-	48
233 - Mini Blade	Manual	5A to 30A	28Vdc	100A to 300A at 28Vdc	-	-	48
227 - Auto Blade	Manual	5A to 30A	28Vdc	2kA at 28Vdc	Ign.Pro	-	49
435T -Auto Blade	Manual / PTT	250mA to 10A	72Vdc	2kA at 72Vdc	-	-	49
221 - Auto Blade	Automatic	5A to 30A	14Vdc	150A to 450A at 14Vdc	Ign.Pro	-	50
222 - Auto Blade	Modified	5A to 30A	14Vdc	150A to 450A at 14Vdc	Ign.Pro	-	50
AT1 - Auto Blade	Automatic	5A to 30A	28Vdc	2kA at 28Vdc	Ign. Pro	-	50
UCB - Auto Blade	Automatic	6A to 30A	12Vdc	TBA	-	-	51
191 - Maxi Blade	Automatic	8A to 50A	14Vdc	150A to 750A at 14Vdc	Ign.Pro	-	51
192 - Maxi Blade	Modified	8A to 40A	14Vdc	150A to 600A at 14Vdc	Ign.Pro	-	#
193 - Maxi Blade	Manual	8A to 50A	28Vdc	150A to 750A at 14Vdc	Ign.Pro	-	51
194 - Maxi Blade	Automatic	8A to 50A	28Vdc	150A to 750A at 14Vdc	Ign.Pro	-	51
195 - Maxi Blade	Modified	8A to 40A	28Vdc	150A to 600A at 14Vdc	Ign.Pro	-	#
321 - Stud Mt.	Automatic	3A to 50A	12Vdc	2.5kA at 12Vdc	Ign.Pro*	IP66 ^	53
323 - Stud Mt.	Manual	3A to 50A	24Vdc	2.5kA at 12Vdc	Ign.Pro*	IP66 ^	53
121 - Stud Mt.	Automatic	5A to 50A	14Vdc	1.5kA - 2.5kA at 12Vdc*	Ign.Pro*	IP66 ^	52
122 - Stud Mt.	Modified	5A to 50A	14Vdc	1.5kA - 2.5kA at 12Vdc*	Ign.Pro*	-	#
123 - Stud Mt.	Manual	5A to 50A	28Vdc	1.5kA - 2.5kA at 12Vdc*	Ign.Pro*	IP66	52
124 - Stud Mt.	Automatic	5A to 50A	28Vdc	1.5kA - 2.5kA at 12Vdc*	Ign.Pro*	IP66 ^	#
125 - Stud Mt.	Modified	5A to 50A	28Vdc	1.5kA - 2.5kA at 12Vdc*	Ign.Pro*	-	#
14 - Panel Mt.	Manual	3A to 20A	50Vdc	1kA at 50Vdc, 3kA at 32Vdc	Ign.Pro	-	54
15 - Panel Mt.	Manual	3A to 40A	50Vdc	1kA at 50Vdc	Ign.Pro	-	54
16 - Panel Mt.	Manual	500mA to 70A	50Vdc	1kA at 50Vdc, 3kA at 32Vdc	Ign.Pro	-	#
24 - Panel Mt.	Manual / PTT	100mA to 30A	50Vdc	TBA	-	IP54*	55
53 - Panel Mt.	Manual / PTT	10A to 60A	32Vdc	3kA at 14Vdc	Ign.Pro	IP67	56
1801 - Panel Mt.	Automatic	5A to 40A	32Vdc	3kA at 32Vdc	Ign.Pro	IP66	#
1811 - Panel Mt.	Automatic	10A to 70A	32Vdc	5kA at 32Vdc	Ign.Pro	IP66	#
1800 - Panel Mt.	Manual	5A to 40A	32Vdc	3kA at 32Vdc	Ign.Pro	IP66	57
1810 - Panel Mt.	Manual	10A to 70A	32Vdc	5kA at 32Vdc	Ign.Pro	IP66	57
19A - Panel Mt.	Automatic	25A to 200A	30Vdc	2.5kA at 30Vdc	Ign.Pro	IP69K	58
19M - Panel Mt.	Manual	25A to 200A	30Vdc	2.5kA at 14Vdc*	Ign.Pro	IP69K	58
251 - Panel Mt.	Automatic	10A to 50A	32Vdc	2.5kA at 32Vdc	Ign.Pro	IP66	63
255 - Panel Mt.	Manual / PTT	10A to 50A	32Vdc	2.5kA at 32Vdc	Ign.Pro	IP66	63
171 - Panel Mt.	Automatic	25A to 200A	48Vdc*	3kA at 30Vdc*	Ign.Pro	IP67	62
171 - Surface Mt.	Automatic	25A to 200A	48Vdc*	3kA at 30Vdc*	Ign.Pro	IP67	60
171 - Panel Mt.	Automatic	225A to 300A	12Vdc	2.5kA at 14Vdc	Ign.Pro	IP67	62
171 - Surface Mt.	Automatic	225A to 300A	12Vdc	2.5kA at 14Vdc	Ign.Pro	IP67	60
175 - Panel Mt.	Manual / PTT	25A to 200A	48Vdc*	3kA at 30Vdc*	Ign.Pro	IP67	62
175 - Surface Mt.	Manual / PTT	25A to 200A	48Vdc*	3kA at 30Vdc*	Ign.Pro	IP67	60-61
174 - Panel Mt.	Manual	225A to 250A	12Vdc	1.5kA at 14Vdc	Ign.Pro	IP67	62
174 - Surface Mt.	Manual	225A to 250A	12Vdc	1.5kA at 14Vdc	Ign.Pro	IP67	60-61
875-Smd & Pnl Mt	Manual	25A to 250A	48Vdc	5kA at 14Vdc	Ign.Pro	IP67	#
181 - Panel Mt.	Automatic	25A to 150A	30Vdc	3kA at 30Vdc	Ign.Pro	IP67	#
181 - Surface Mt	Manual	25A to 150A	30Vdc	3kA at 30Vdc	Ign.Pro	IP67	64
184-Smd & Pnl Mt	Manual	25A to 150A	42Vdc	3kA at 30Vdc*	Ign.Pro	IP67	#
185 - Panel Mt.	Manual / PTT	25A to 150A	42Vdc	3kA at 30Vdc*	Ign.Pro	IP67	#
185 - Surface Mt.	Manual / PTT	25A to 150A	42Vdc	3kA at 30Vdc*	Ign.Pro	IP67	#
285 - Panel Mt.	Manual / PTT	25A to 150A	48Vdc	3kA at 48Vdc	Ign.Pro	IP67	65
285 - Surface Mt.	Manual / PTT	25A to 150A	48Vdc	3kA at 48Vdc	Ign.Pro	IP67	64
187 - Panel Mt.	Manual / PTT	25A to 200A	48Vdc*	5kA at 14Vdc*	Ign.Pro	IP66	66
187 - Surface Mt.	Manual / PTT	25A to 200A	48Vdc*	5kA at 14Vdc*	Ign.Pro	IP66	66

Contact sales for (#) product details.
(*) verification.
(^)Plastic cover only.

ABYC Definition of Ignition Protection (Ign.Pro) E11.4.15.
The design and construction of a device such that under design operating conditions:
(a) It will not ignite a flammable hydrocarbon mixture surrounding the device when an
ignition source causes an internal explosion, or (b) It is incapable of releasing sufficient electrical
or thermal energy to ignite a hydrocarbon mixture, or (c) The source of ignition is hermetically sealed.

What does this mean? Ignition Protected devices are designed to prevent the release of electrical or thermal energy (ie. sparks or heat) which could start a fire when operating in environments containing a mixture of air with gasoline, propane or CNG vapour. So when replacing or installing electrical equipment in these environments, make sure the product is specifically designated "Ignition Protected". As you can see in the above table, there are very few fuses that will meet this requirement, however we have a large range of circuit breakers that are Ignition Protected.

PROLEC

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Web: www.prolecproducts.com.au

CIRCUIT BREAKER SELECTION CHART

With an ever growing product range sometimes it can be hard to describe which circuit breaker you need. So the following visual identification chart can help you identify some of the more common styles available. For a more comprehensive range please refer to the website www.prolecproducts.com which showcases over 300 different product images.

1 **Fuse Clip Cartridge CBF**
AGC Replacement Type II
(Contact sales)

2 **Low Profile Mini**
Type III
(Contact sales)

3 **Mini Blade**
Type I, II & III
(Page 48)

4 **Auto Blade Snap Blade**
Type I
(Page 51)

5 **Auto Blade**
Low Profile Type I
(Page 50)

6 **Auto Blade**
Type I & II
(Page 50)

7 **Auto Blade**
Type III
(Page 49)

8 **Auto Blade**
Type III PTT
(Page 49)

9 **Maxi Blade**
Type I & III
(Page 51)

10 **Short Stop**
Type I & III
(Pages 52-53)

11 **Push Button 3A-40A**
Type III
(Page 54)

12 **Push Button 0.5A-70A**
Type III
(Contact Sales)

13 **Rocker Style Panel**
Type III PTT
(Page 55)

14 **Rotary Style Panel**
Type III PTT
(Page 56)

15 **Series 18**
Type I & III
(Page 57)

16 **Series 19**
Type I & III
(Page 58)

17 **Series 19 With Bracket**
Type I & III
(Page 59)

18 **Hi Amp Surface**
Type I & III PTT
(Pages 60 & 64)

19 **Hi Amp Surface SxS**
Type III PTT
(Page 61)

20 **Mid Range Panel**
Type I & III PTT
(Page 63)

21 **Hi Amp Panel**
Type I & III PTT
(Page 62 & 65)

22 **Marine Rated**
Type III Switchable
(Page 66)

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CIRCUIT BREAKERS - MINI BLADE 14V

EAT•N **Bussmann**

14VDC Automatic TI Part Number	14VDC Modified TII Part Number	Ampere Rating
21105-00	21205-00	5A
21175-00	21275-00	7.5A
21110-00	21210-00	10A
21115-00	21215-00	15A
21120-00	21220-00	20A
21125-00	21225-00	25A
21130-00	21230-00	30A

Voltage: 14VDC
I. R.: 150A at 14VDC (5A to 10A)
225A at 14VDC (15A)
300A at 14VDC (20A)
450A at 14VDC (25A to 30A)
Operating Temp: -40°C to 85°C
Storage Temp: -40°C to 125°C
Pack Size: 1, 10, 100pcs
Approvals: *SAE* J553 RoHS

Automatic TI   **Modified TII**

RELATED PRODUCTS

Mini Breaker Puller
(see p.44)

Inline Holder
(see p.77)

PDM
(see p.120 - 146)

12.45
26.92
8.13
8.99
2.79
11.05
6.35
3.81
0.81
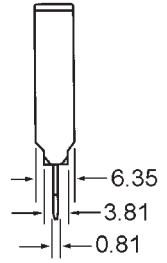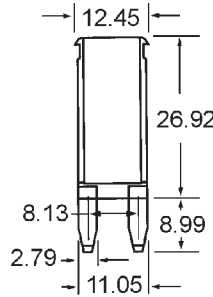
CIRCUIT BREAKERS - MINI BLADE 28V

EAT•N **Bussmann**

Features:
- Cover is colour coded to amperage ratings.
- Matches Mini fuse footprint, 2.8mm wide blades.
- Manual reset button on top face.

28VDC Manual TIII Part Number	Ampere Rating	Body Colour	
23305-00	5A	Tan	
23375-00	7.5A	Brown	
23310-00	10A	Red	
23315-00	15A	Blue	
23320-00	20A	Yellow	
23325-00	25A	White	
23330-00	30A	Green	

Voltage: 28VDC
I. R.: 100A at 28VDC (5A to 10A)
150A at 28VDC (15A)
200A at 28VDC (20A)
300A at 28VDC (25A to 30A)
Operating Temp: -40°C to 85°C
Storage Temp: -40°C to 125°C
Pack Size: 1, 10, 100pcs
Approvals: *SAE* J553

Manual TIII

RELATED PRODUCTS:

Inline Holder
(see p.77)

PDM
(see p.120 - 146)

3.0
3.0 max.
(open position)
233 series only.
0.8 min.
(close position)
12.5
6.4
XXA
24.5
11.3
0.08
10.5
9.0
Dimensions in (MM)
5.3
2.9
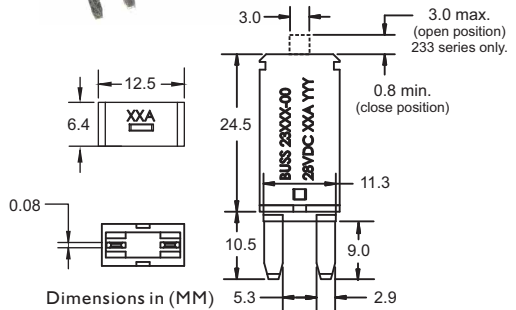
CIRCUIT BREAKERS

CIRCUIT BREAKERS - AUTO BLADE L.P 28V

EATON **Bussmann**

IGNITION PROTECTED

Features:
• Low profile design.
• Ignition Protected.
• Colour coded body matches amperage ratings.
• Matches auto fuse footprint of 5.2mm wide blades making it compatible with existing auto fuse fuse blocks and panels.
• Manual reset button with protective walls.

28VDC
Manual TIII Part Number	Ampere Rating	Body Colour	
22705-00	5A	Tan	
22706-00	6A	Green	
22775-00	7.5A	Brown	
22710-00	10A	Red	
22715-00	15A	Blue	
22720-00	20A	Yellow	
22725-00	25A	White	
22730-00	30A	Green	

Voltage: 28VDC **I.R.:** 2000A @ 28VDC
Reset Mechanism: Type III, Manual Reset.
Features: Ignition Protected
Body: UL-Rated 94V-0 thermoplastic.
Terminals: Tin plated copper alloy.
Operating Temp: -40°C to 85 °C **Storage Temp:** -40°C to 125°C
Pack Size: 1, 10, 100, 250
Holders: Inline, Blocks, Panels and DIN Rail Fused Terminals.
Approvals: *SAE* J553, J1171.

Dimensions are in MM
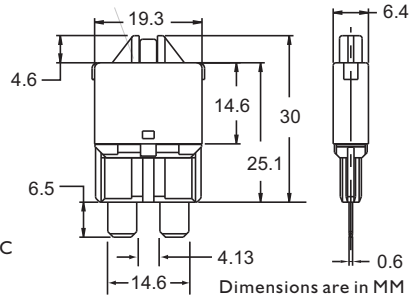
CIRCUIT BREAKERS

CIRCUIT BREAKERS - AUTO BLADE 72V

MORSETTITALIA

Features:
• Miniaturised single pole thermal circuit breaker.
• Low to middle amperages.
• Suitable for both AC and DC Voltage.
• Manual push on push off button.
• Reliable snap-acting and trip-free mechanism.
• Labeling feature. Equivalent to E-T-A 1180

72VDC
Manual TIII - PTT Part Number	Ampere Rating
435T0025	250mA
435T0050	500mA
435T0100	1A
435T0200	2A
435T0300	3A
435T0400	4A
435T0600	6A
435T0800	8A
435T1000	10A

Voltage: 250VAC / 72VDC (UL & CSA)
          250VAC / 65VDC (VDE)
I.R.: 2000A @ rated voltage (UL)
Reset Mechanism: Type III, Manual Reset / Manual Trip
Typical life: 6,000 operations at 1 x In (low-inductance)
          3,000 operations at 1 x In (inductive)
          500 operations at 2 x In (inductive)
Operating Temp: -20°C to 60 °C
Pack Size: Stock lines 1pc, indent items 20pcs.
Holders: DIN rail mount fused terminal blocks (Page 148)
Approvals: CBE standard EN/IEC 60934
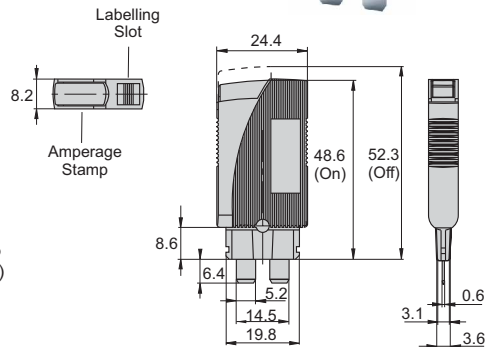
Dimensions are in MM

CIRCUIT BREAKERS - AUTO BLADE TYPE

EAT•N **Bussmann**

IGNITION PROTECTED

12VDC Automatic TI Part Number	12VDC Modified TII Part Number	Ampere Rating
22105-400	22205-400	5A
22175-400	22275-400	7.5A
22110-400	22210-400	10A
22115-400	22215-400	15A
22120-400	22220-400	20A
22125-400	22225-400	25A
22130-400	22230-400	30A

Voltage: 14VDC
I. R.: 150A at 14VDC (5A to 10A)
225A at 14VDC (15A)
300A at 14VDC (20A)
450A at 14VDC (25A to 30A)
Operating Temp: -40°C to 85°C
Storage Temp: -40°C to 125°C
Material: UL 94-V0 Thermoplastic housing.
Type I (Gold Metal Cover),
Type II (Silver Metal Cover)
Features: Ignition Protected
Holders: Blocks
Pack Size: Stocked lines 1, Indent items 250pcs.
Approvals: *SAE* J553, J1171
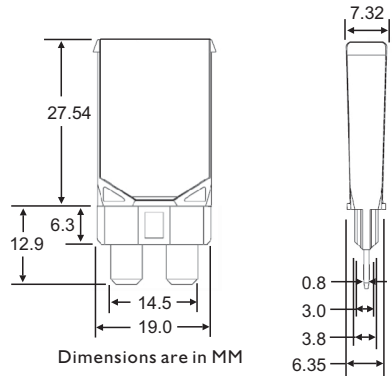
Automatic TI **Modified TII**

Dimensions are in MM

27.54
6.3
12.9
14.5
19.0
7.32
0.8
3.0
3.8
6.35

RELATED PRODUCTS:

Clips & Bases (see p.68) **Inline Holders** (see p.77) **Fuse Panels** (see p.87 & 92)

CIRCUIT BREAKERS - AUTO BLADE LOW PROFILE

PROLEC

NEW

IGNITION PROTECTED

24VDC Automatic TI Part Number	Ampere Rating	Body Colour	
AT1-005	5A	Tan	
AT1-075	7.5A	Brown	
AT1-010	10A	Red	
AT1-015	15A	Blue	
AT1-020	20A	Yellow	
AT1-025	25A	White	
AT1-030	30A	Green	

Voltage: 28VDC
I. R.: 2000A at 28VDC
Reset Mechanism: Type I, Automatic Reset
Operating Temp: -30°C to 75°C
Storage Temp: -30°C to 105°C
Material: UL 94-V0 Thermoplastic housing.
Features: Ignition Protected, Low Profile Housing
Holders: Blocks
Pack Size: 1, 10, 100, 250pcs.
Compliance: SAEJ553, SAE J1171

19.8
T1 10A 28V
AT1-010 xxxx
Ignition Protected
14.8
31.7
25.3
6.4
5.2
6.2
0.6

Dimensions are in MM
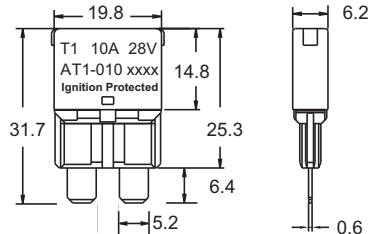
RELATED PRODUCTS:

Clips & Bases (see p.68) **Inline Holders** (see p.77) **Fuse Panels** (see p.87) **Fuse Blocks** (see p.92)

PROLEC

CIRCUIT BREAKERS - AUTO BLADE TYPE

E·T·N **Bussmann**

Features:
• Use in place of the ATO and ATC type fuses.
• Blades can be snapped off to fit three different lengths.
• Colour coded cover to match amperage ratings.

12VDC
Automatic TI

Part Number	Ampere Rating	Body Colour	
UCB-6	6A	Plain	
UCB-8	8A	Brown	
UCB-10	10A	Red	
UCB-15	15A	Blue	
UCB-20	20A	Yellow	
UCB-25	25A	Plain	
UCB-30	30A	Green	

Voltage: 12VDC
Reset Mechanism: Type I, Automatic Reset
Termination: Auto fuse footprint. Brass.
Pack Size: 1, 5, 10, 100, 250
Approvals: *SAE* J553
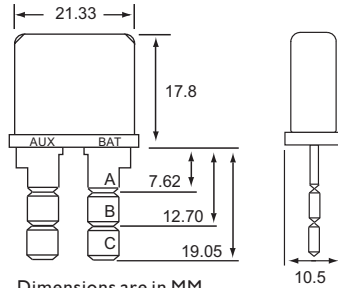
Dimensions are in MM

UCB breakers feature "snap-off" universal blades to fit tight fuse block spacing or recessed fuse terminals.

CIRCUIT BREAKERS - MAXI BLADE TYPE

E·T·N **Bussmann**

IGNITION PROTECTED

12VDC Automatic TI Part Number	24VDC Automatic TI Part Number	12 / 24VDC Manual TIII Part Number	Ampere Rating
19108-01M	19408-01M	19308-01M	8A
19110-01M	19410-01M	19310-01M	10A
19115-01M	19415-01M	19315-01M	15A
19120-01M	19420-01M	19320-01M	20A
19125-01M	19425-01M	19325-01M	25A
19130-01M	19430-01M	19330-01M	30A
19135-01M	19435-01M	19335-01M	35A
19140-01M	19440-01M	19340-01M	40A
19150-01M	19450-01M	19350-01M	50A

Automatic TI (No Button)

Manual TIII (With Reset Button)

Voltage: 14VDC (191 & 193 series)
            28VDC (193 & 194 series)
I. R.: 150A at 14VDC (8A to 10A), 225A at 14VDC (15A)
         300A at 14VDC (20A), 450A at 14VDC (25A to 30A)
         600A at 14VDC (35A to 40A), 750A at 14VDC (50A)
Operating Temp: -40°C to 85°C
Storage Temp: -40°C to 125°C
Features: Ignition Protected
Pack Size: Stock lines 1pc, indent items 250pcs
Termination Notes: Also available with auto blade terminals. Contact sales for further information.
Notes: Metal cover aids heat dissipation.
Option: Manual reset button available in two colour choices. Part Number suffix -1 (Black) and -2 (White).
Approvals: *SAE* J553, J1171

Reset Button (Series 193 only)

Maximum button extension in tripped position
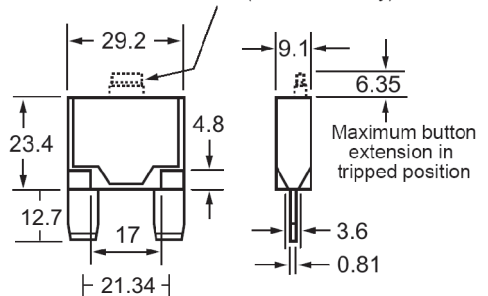
Blade Width 12.7

Dimensions are in MM

RELATED PRODUCTS:

Power Dist. Modules
(see p.138)

Covers and Brackets
(see p.140)

CIRCUIT BREAKERS - SHORTSTOP

EAT•N Bussmann

Applications include Battery chargers, trucks, buses, RVs, trolling motors, etc.
Function options include Auto (TI), Manual (TIII) or optional Modified Reset Circuit (TII) Breakers.

12VDC Automatic TI Plastic Cover Parallel Bracket	12VDC - 24VDC Manual TIII Plastic Cover Parallel Bracket	12VDC Automatic T1 Metal Cover Parallel Bracket	12VDC Automatic T1 Metal Cover Cross Bracket	Ampere Rating
Part Number	Part Number	Part Number	Part Number	
121A05-B2P	123A05-B2P	121A05-B2M	121A05-A2M	5A
121A08-B2P	123A08-B2P	121A08-B2M	121A08-A2M	8A
121A10-B2P	123A10-B2P	121A10-B2M	121A10-A2M	10A
121A15-B2P	123A15-B2P	121A15-B2M	121A15-A2M	15A
121A20-B2P	123A20-B2P	121A20-B2M	121A20-A2M	20A
121A25-B2P	123A25-B2P	121A25-B2M	121A25-A2M	25A
121A30-B2P	123A30-B2P	121A30-B2M	121A30-A2M	30A
121A35-B2P	123A35-B2P	121A35-B2M	121A35-A2M	35A
121A40-B2P	123A40-B2P	121A40-B2M	121A40-A2M	40A
121A50-B2P	123A50-B2P	121A50-B2M	121A50-A2M	50A

Voltage: 14VDC (121 Series), 28VDC (123 & 124 series)
I.R.: 2.5kA @ 12VDC (Branch circuit protection). Contact sales for further info.
Operating Temperature: -40°C to 85°C.
Storage Temperature: -40°C to 125°C
Features: Ignition Protected
Ingress Protection Rating: IP66* (Plastic cover only, except terminals).
Pack Size: Stock lines 1pc, indent items 250pcs.
Mounting Hole: Bracket mounting holes 4.98 mm diameter.
Notes: Keps lock nuts included with circuit breakers.
Approvals: *SAE* J553, J1171

Terminal Specs:
Two 10-32 studs
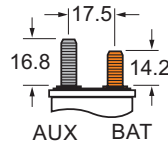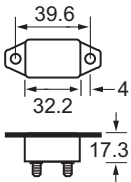
17.5
16.8 14.2

AUX   BAT

Plastic Cover Parallel Bracket

39.6
32.2 — 4
17.3

Metal Cover Parallel Bracket

39.6
31.5 — 20.1
17.5

Metal Cover Cross Bracket

31.5
39.6 — 20.1
9.6
17.5

Connect the short stud to battery (+),
connect the long stud to auxiliary circuit(s).

22.4
9.6
38.5 (2 pos.)
62 (3 pos.)
1.6
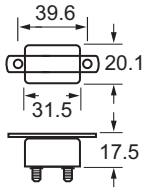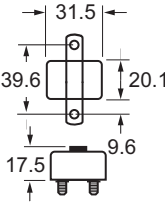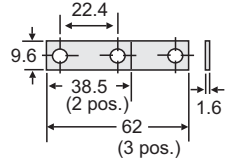
RELATED PRODUCTS:

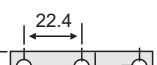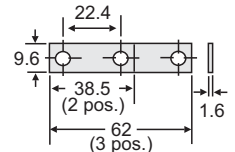| Part Number	Description
CBBP	Clear Cover Parallel TIII ☐
CBBR	Red PVC Terminal Boot ▮
CBBB2	2 Position Brass Tin Busbar
CBBB3	3 Position Brass Tin Busbar
CBBB6	6 Position Brass Tin Busbar

Cover NEW

Push button to reset

Boot

Busbars

Notes: CBBP covers are IP64 water resistant. They protect the manual reset circuit breaker button against dust and water. The CBBR PVC boots protect terminal connections from accidental shorts. Use to comply with ABYC E-9, USCG 33pl & ISO 10133. Fits breakers with or without brackets. Both T1 & TIII. Cable entry 18-10AWG. Busbars suitable for breakers fitted with a parallel bracket or without bracket.

CIRCUIT BREAKERS - SERIES 32 COLOUR CODED

NEW | IGNITION PROTECTED

IP66*

Features:
- Single pole thermal circuit breakers are available in ratings in ratings 5 to 50 Amps.
- Three mounting styles: Cross mounting bracket, parallel mounting bracket or no bracket.
- Three reset options: automatic (T1), modified reset (TII) and manual reset (TIII).
- Now includes colour coded stamped amperage sticker.
- Laser etched brand, part numbered and batch coded.

12VDC Automatic TI Parallel Brkt Part Number	12-24VDC Manual TIII Parallel Brkt Part Number	12VDC Automatic TI Cross Brkt Part Number	Colour Code	Ampere Rating
321-A2P-05	323-A2P-05	321-A1P-05		5A
321-A2P-08	323-A2P-08	321-A1P-08		8A
321-A2P-10	323-A2P-10	321-A1P-10		10A
321-A2P-12	323-A2P-12	321-A1P-12		12A
321-A2P-15	323-A2P-15	321-A1P-15		15A
321-A2P-20	323-A2P-20	321-A1P-20		20A
321-A2P-25	323-A2P-25	321-A1P-25		25A
321-A2P-30	323-A2P-30	321-A1P-30		30A
321-A2P-35	323-A2P-35	321-A1P-35		35A
321-A2P-40	323-A2P-40	321-A1P-40		40A
321-A2P-50	323-A2P-50	321-A1P-50		50A

New Feature Colour Coded Amp Sticker

← **TIII Manual Reset Button**
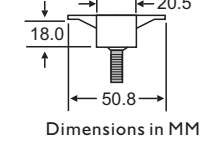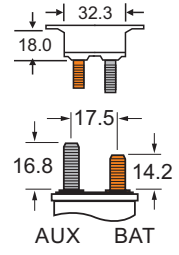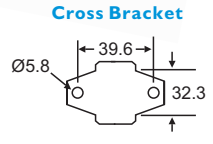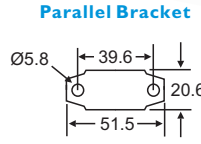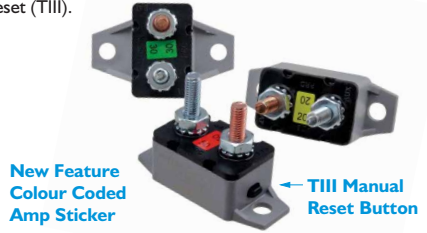
Voltage: 12VDC (Type 1), 12-24VDC (Type III).
I.R.: 2.5kA @ 12VDC.
Operating Temp: -10°C to 60°C
Body Type: Plastic case (standard). Metal case (optional).
Features: Ignition Protected
Ingress Protection Rating: IP66* (Plastic, except terminations).
Reset Overload Capacity: 6 x rated current.
Pack Size: Stock lines 1pc, indent items 500pcs.
Mounting Hole: Bracket mounting holes 5.8 mm diameter.
Notes: Keps lock nuts included with circuit breakers.
Approvals: *SAE* J553, J1171 RoHS
Extended Product Options: Indent Only.

Parallel Bracket

Ø5.8 ← 39.6 → 20.6
← 51.5 →

Cross Bracket

Ø5.8 ← 39.6 → 32.3

← 32.3 → 18.0

← 20.5 → 18.0
← 50.8 →

Dimensions in MM

← 17.5 →
16.8 | 14.2
AUX   BAT

Terminal Specs
Two 10-32 studs

Connect the short stud to battery (+),
connect the long stud to auxiliary circuit(s).

Reset Type	Mounting Options	Body Type Options
321 (TI, 12VDC)	32x-A0 (No Bracket)	32x-AxM (Metal TI & TII)
322 (TII 12VDC)	32x-A1 (Cross Bracket)	32x-AxP (Plastic TI & TIII)
323 (TIII 24VDC)	32x-A2 (Parallel Bracket)	32x-AxS (Metal Sealed TI & TII)

Factory Logo →
Amperage & Voltage →
Part No.& Batch Code →

25A 12VDC
321-A2P-25 5215

Product markings are laser etched.

RELATED PRODUCTS:

Cover NEW
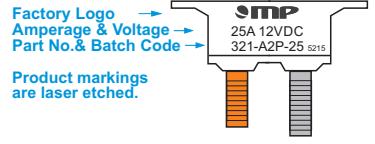
Push button to reset

Busbars

Part Number	Description
CBBP	Parallel TIII Clear Cover □
CBBR	Red PVC Terminal Boot
CBBB2	2 Position Brass Tin Busbar
CBBB3	3 Position Brass Tin Busbar
CBBB6	6 Position Brass Tin Busbar

Boot

← 22.4 →
9.6
← 38.5 → (2 pos.) | 1.6
← 62 → (3 pos.)

Notes: CBBP covers are IP64 water resistant. They protect the manual reset circuit breaker button against dust and water. The CBBR PVC boots protect terminal connections from accidental shorts. Use to comply with ABYC E-9, USCG 33p1 & ISO 10133. Fits breakers with or without brackets. Both T1 & TIII. Cable entry 18-10AWG. Busbars suitable for breakers fitted with a parallel bracket or without bracket.

CIRCUIT BREAKERS - SERIES 14 & 15

Features:
- Miniature size panel mount or dash mount. Snap mount also available upon request.
- Wide range of common amperages 3A-40A suitable for both AC & DC voltages.
- Custom versions with alternative termination, mounting, button and reset options are also available.

3/8"-27 Bushing 1/4" QC Straight Terminal (TIII) Part Number	3/8"-27 Bushing # Screw - Bent 90° Terminal (TIII) Part Number	7/16"-28 Bushing 1/4" QC Straight Terminal (TIII) Part Number	Ampere Rating
1480-103-030	1480-123-030	1400-103-030	3A
1480-103-040	1480-123-040	1400-103-040	4A
1480-103-050	1480-123-050	1400-103-050	5A
1480-103-060	1480-123-060	1400-103-060	6A
1480-103-070	1480-123-070	1400-103-070	7A
1480-103-080	1480-123-080	1400-103-080	8A
1480-103-100	1480-123-100	1400-103-100	10A
1480-103-120	1480-123-120	1400-103-120	12A
1480-103-150	1480-123-150	1400-103-150	15A
1480-103-160	1480-123-160	1400-103-160	16A
1480-103-200	1480-123-200	1400-103-200	20A
1580-101-250	1580-131-250	1500-101-250	25A
1580-101-300	1580-131-300	1500-101-300	30A
-	1580-131-350	-	35A
-	1580-131-400	-	40A

1/4" Quick Connect Straight Terminal

#6-32 & #8-32 Screw Bent 90° Terminal

Weatherproof Boot Options*

Clear Magnified **Black** **Rear** **Front**

Part Number	Description	
1680-318-1	3/8"-27	Clear
1680-330-1	3/8"-27	Black
1600-382-1	7/16"-28	Clear
1600-382-2	7/16"-28	Black

18
15.7

5

Voltage: 250VAC / 50VDC.
I.R.: 1kA at 250VAC / 50VDC.
Reset Mechanism: Type III, Manual Reset.
Button: White button with black ampere rating stamp.
Mounting: Panel mount - includes Pal nut & Knurl nut.
Terminals (Quick Connect): 3A-30A (6.3mm).
Terminals (Screw): 3A-20A (#6-32), 25A-40A (#8- 32).
Screw terminals include screws & lock washers.
Features: Ignition Protected UL 1500.
Optional: Ampere ratings (500mA-2.5A & 45A-70A).
Pack Size: Stock lines 1pc, Indent items 50pcs.
Approvals: RoHS
(3A & 4A at 250VAC / 50VDC)
(5A to 20A at 250VAC / 50VDC)
(25A to 40A at 250VAC / 50VDC)

A Closed
D
13.47
3.56

B Open
C
24.6
36.4
17.2
E
Refer terminal options.
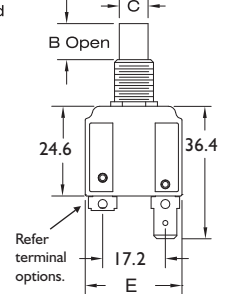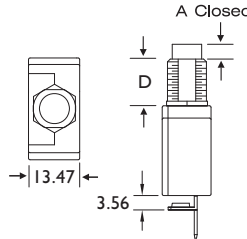
Series	Dim. 'E'
1400 & 1480	26.7mm
1500 & 1580	29.2mm

Panel Cutout 3/8"-27 Bushing
8.77
9.53 dia.
3/8"-27
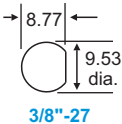
Reset Button W/Amp Stamp
3 flat

Panel Cutout 7/16"-28 Bushing
11.30 dia.
10.16
7/16"-28

Reset Button W/Amp Stamp
flat
3
flat

Dimensions in MM

Bushing	A	B	C	D
3/8"-27	0.76	6.10	6.10	10.3
7/16"-28	4.07	8.64	7.63	12.8

Scan this QR Code for more information
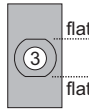
QR Code: 10001

RELATED PRODUCTS:

Breaker Panels
Unpopulated 12 position breaker panels see page 173.

Hardware Options
Knurl Nut Sml Aluminum
Knurl Nut Lrg Black Nylon
Name Plate Aluminum
Pal Nut Aluminum

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

CIRCUIT BREAKERS - SERIES 24 ROCKER

IGNITION PROTECTED **IP54***

Features:
• Rocker style, switchable circuit breaker offering trip-free protection.
• It operates as a latched mechanism in which the switch function (Power On / Off) is independent of the trip function (Overload Protection). The latch mechanism is extremely simple in design providing reliable operation and provides the convenience of a switch and circuit breaker in one device. Fewer components means less space and therefore a more compact equipment design. UL 1500 Ignition Protection.
• Designed for use in compact, snap-in panel mount applications. Amperage range 100mA to 30A.

Custom Ordering Options:
• As a switch, circuit breaker or combined switch / breaker. One or two pole device.
• Switch guard options; (a) standard rocker, (b) rocker + splash guard, (c) standard rocker + actuator guard,(d) rocker with splash and actuator guard.
• With a variety of switch markings & colours, green, red, amber & white translucent actuators for both lit and unlit applications, as well as unlit black. With or without illumination (incandescent or neon).
• Quick connect or screw terminations.
• Two panel cut-out sizes; 50.5 x 21.6mm (Standard), 44.5 x 21.6mm (Optional).
• Complete range of ampere ratings also available upon request; 100mA, 200mA, 300mA, 400mA, 500mA, 600mA, 800mA, 1A, 1.25A, 1.5A, 2A, 2.5A, 3A, 3.5A, 4A, 4.5A, 5A, 6A, 7A, 8A, 10A, 12A, 14A, 15A, 16A, 18A, 20A, 25A, 30A.

Single Pole Breaker 50VDC (TIII-PTT)
Black Switch (I/O marking)

Part Number	Ampere Rating
2410-100-159-050	5A
2410-100-159-100	10A
2410-100-159-150	15A
2410-100-159-200	20A
2410-100-159-250	25A
2410-100-159-300	30A

Single Pole Breaker 10-14VDC (TIII-PTT)
Red Illuminated Switch* (no marking)

Part Number	Ampere Rating
2410-102-120-050	5A
2410-102-120-100	10A
2410-102-120-150	15A
2410-102-120-200	20A
2410-102-120-250	25A
2410-102-120-300	30A

Voltage: 250VAC / 50VDC Max.
Short Circuit Rating (IEC): 2.5A to 20A: 150A (1 pole).
Reset Mechanism: Type III, Manual Reset Switchable
Dielectric Strength: 2000V (IEC)
Terminals (Combination): 2 x 2.8mm or 6.3mm Q.C.
Operating Temp: -30°C to 60°C
Ingress Protection*: IPxx Ratings
IP00 for the terminal area, per IEC 529/DIN 40050.
IP40 for the operating area.
IP54 with splash protection.
Pack Size: Stocked items 1pc.
Notes: *Red illuminated switch features an incandescent light which requires 10 to 14VDC to operate.
Lamp current draw is 38mA at 12VDC.
Approvals: 🏵 UL 1077 recognised, ⓢ certified
⬡ (0.5A to 20A), IEC (0.5A to 20A), ⓒⓒⓒ (0.5A to 20A)

Actuator shown in "ON" positon

MP

LINE 21

33

45

23   22

41

1.3 TYP.

21

Dimensions in MM

1 Pole Q.C.
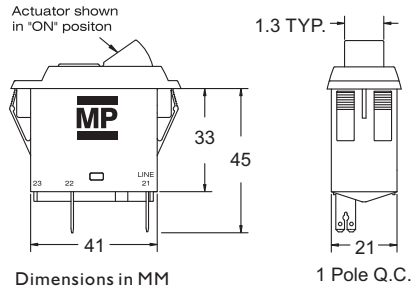
Panel Cutout
Fits panels up to 5.3mm thick

50.5

21.6

1.8R Max.

Front Face

55

24

RELATED PRODUCTS:

Switch Breaker Panels
Custom made & standard 4, 6 & 8 way switch breaker panels see page 175.

Mains   Radio   TV   Lights   Wiper   Full Beam
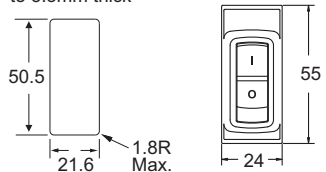
NEW

Hole Plug Blank Switch
P/N: 24HP2151

Circuit Diagram
1 Pole Switch / Breaker with Optional Illumination

21 LINE

13

22 LOAD
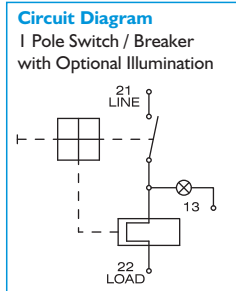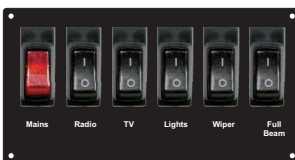
BATTERY DISCONNECT CIRCUIT BREAKER SERIES 53

The Series 53 Branch Disconnect / Circuit Breaker incorporates into a single device both traditional battery disconnect switching (non-engine) and circuit protection. This unique combination of features in a single rotary switch allows OEM cost savings by eliminating the added components, material and labour of a separate battery switch and circuit breaker / fuse. For the end user or maintenance personnel, the Series 53 provides a quick means to disconnect traditional downstream circuit(s) while preventing unintentional battery drain or allowing for disconnected battery power during storage and/or maintenance.

IGNITION PROTECTED | **NEW**

PATENT PENDING | **IP67**

Features

- Series 53 is available in current ratings 10A to 70A.
- One piece terminal stud design never loosens over time.
- Designed for panel mounting (front or rear of panel).
- Ignition protected and weatherproof (IP66 & IP67).
- Designed and manufactured in USA.

Part Number	Ampere Rating
533-P0-010	10A
533-P0-015	15A
533-P0-020	20A
533-P0-030	30A
533-P0-035	35A
533-P0-040	40A
533-P0-045	45A
533-P0-050	50A
533-P0-060	60A
533-P0-070	70A

Rear Panel Mount

Disconnect and Protect to 32VDC

Voltage: 32VDC.
Interrupt Capacity: Per SAE J553 & UL1077* (U3) at 14 & 28VDC,
1.5kA @ 14VDC per ABYC (SAE J553 & UL1077* U3), 3kA @ 14VDC.
Mounting Options (3): Rear panel mount, Front panel mount & Surface mount.
Mounting eyelet hole size #10 with #8-32 nuts pre-installed.
Ingress Protection Rating: IP66 / IP67. (IEC 60529).
Ignition Protection: ISO 8846*, USCG, ABYC, UL1500* and SAE J1171
Dielectric Strength: 2000VAC minimum UL1107. **Housing:** Thermoplastic.
Shock, Vibration, Corrosion: MIL-STD-202, UL1077*, UL1107*
Endurance: Per SAE J553 (100 overload trip cycles at 400% of rated current at 28VDC).
Min / Max Ultimate Trip: Must Hold 100% of rated current at 25°C/77°F. Must Trip at 135% of rated current within 1 hour. Unique / specific higher ambient calibrations are available, contact sales.
Operating Temperature: -40°C to 85°C
Inrush Capacity: The Series 53 will not trip at 35X rated capacity for ½ cycle (0.008 sec.).
Note: This product is not rated for an engine starter circuit. *Tested per methods of standard.
Approvals: UL 1077, SAE J553, ABYC, CE

Series 53 Disconnect Function

Switch ON, Continuity - Breaker is active and circuit is active.
Switch ON, NO Continuity - Breaker is tripped. Push the PUSH TO RESET button to reset the breaker.
Switch OFF, NO Continuity - Breaker is not operable. Circuit is Off.

6.8
63.5 50.8
44.5 Dia.

37.6   37.6
17.0   12.2
24.9
29.7

38.1
26.0
1/4-28 Studs   13.0
23.9

Dimensions in MM

Clearance for #8 / #10 screws
25.4
38.1 Dia.
50.8
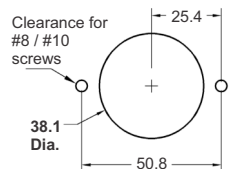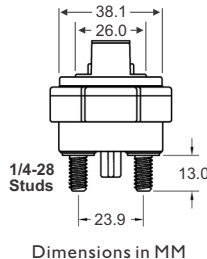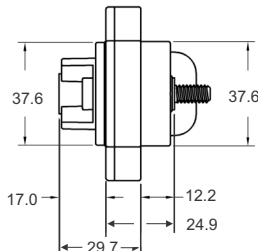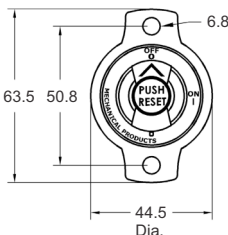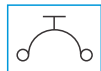
Panel Mount Cutout Front or Rear

CIRCUIT BREAKERS - SERIES 18

MP Mechanical Products

IGNITION PROTECTED
J1428
MIL-STD

Features:
• Designed for the harshest of environments. Weatherproof and ignition proof.
• All materials used are resistive to UV and flammability. Strong thermoplastic case.
• Double break design to achieve increased short-circuit interruption capability.
• The push-to-reset actuator is trip-free, ensuring the breaker cannot be forced to continuously maintain a closed circuit if an overload condition exists.
• Suitable for Marine, Heavy Equipment, Trucks, Buses & Battery Chargers. Made in USA.

Manual (TIII) # 8-32 Screw Terminal Part Number	Manual (TIII) #10-32 Stud Terminal Part Number	Ampere Rating
1800E112E0050	–	5A
1800E112E0100	1810E113T0100	10A **NEW**
1800E112E0125	1810E113T0125	12.5A
1800E112E0150	1810E113T0150	15A
1800E112E0200	1810E113T0200	20A
1800E112E0250	1810E113T0250	25A
1800E112E0300	1810E113T0300	30A
1800E112E0350	1810E113T0350	35A
1800E112E0400	1810E113T0400	40A
–	1810E113T0500	50A
–	1810E113T0600	60A
–	1810E113T0700	70A **NEW**

Screw Terminals (1800E112E series)

Stud Terminals (1810E113T series)

Locking Nuts Fitted

#8-32 Screw Terminals

#8-32 Mounting Locking Nuts Included

#10-32 Stud Terminals
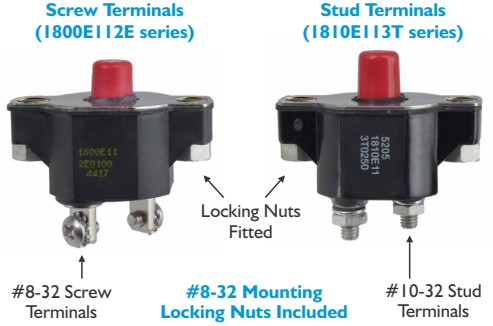
Voltage: 125VAC / 32VDC.
I.R. (1800 series): 3kA at 120VAC / 32VDC (Standard Calibration)
I.R. (1810 series): 3kA at 120VAC, 5kA at 32VDC (High Ambient*)
Reset Mechanism: Type III, Manual Reset. 1800 & 1810 Series. **Reset Button:** Red with 45° white ampere stamp.
Reset Option: Type 1, Automatic reset available. 1801 & 1811 series, no button. Contact sales for information.
Mounting Standard: #10 eyelet hole with attached self-locking nut (includes 2 x #8-32 screws).
Mounting Option: 1800T0 & 1810T0 series: #10 eyelet hole only, no fitted locking nut. Indent only.
Terminals (1800 series): Screw terminals includes #8-32 screws and lock washer.
Terminals (1810 series): Threaded stud includes #10-32 nuts and lock washer. Stud is 11.4mm long.
Vibration Rating: 10g per MIL-STD-202, Method 204, Test Condition A.
Features: Ignition Protected UL 1500. **Housing:** UL 94 V-0 Black Thermoplastic.
Pack Size: 1, 20, 40, 160, 320, 640
Note: *High Ambient style increases trip rating from 100% to 110% (min.) & 135% to 143% (max.) at 25 deg C.
    Ampere ratings 2A (CDM-2) and 3A (CDM-3) contact sales.
Approvals: ABYC E-11, SAE J553, SAE J1428, UL 1500, UL 1077, MIL-STD-202.

Screw Terminals #8-32 (2A to 40A)

35.6
9.8
31.5
22.2
#8-32 Self Locking Nut Fitted

Stud Terminals #10-32 (10A to 70A)

34.2
11.4
19.4
#8-32 Self Locking Nut Fitted

Dimensions in MM
30.2
16.0
45°
40.0
50.8
White Amp Rating Stamp
#10 Eyelet Mounting Option Shown

Right Angle -45° Fix Mounting Bracket SS

NEW
65
40
60
Mounting Ø 6.5 dia
Part Number: PROBRK018A

Recommended Mounting

5.6 Dia.
14.5 Dia.
5.6 Dia.
20
40

Automatic Reset No Button

NEW
Indent Item Contact Sales
Product Series: 1801 / 1811

Manual Reset - Red Button White Amp Stamp at 45°

40
MINI BREAKER PRESS TO RESET
Nameplate Accessory # 282
Product Series: 1800 / 1801

PROLEC
Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au
57

CIRCUIT BREAKERS - SERIES 19

Features:
- Wide range of ratings from 25A to 200A.
- Smallest breaker in range for 175A & 200A Ratings.
- Superior Ingress Protection, rated to IP67 & IP69K.
- Designed for harsh applications to 30VDC.
- Optional LED tripID version for open circuits.
- Front panel or rear panel mounting options.
- Trip free.
- Wide bracket version available in natural or black.
- Made in USA. Some subassembly made in Australia.

Auto Reset (Thru Hole) Part Number	Manual Reset (Thru Hole) Part Number	Manual Reset (Mounting Nut) Part Number	Ampere Rating
19A-P10-N-025	19M-P10-B-025	19M-P11-B-025	25A
19A-P10-N-030	19M-P10-B-030	19M-P11-B-030	30A
19A-P10-N-035	19M-P10-B-035	19M-P11-B-035	35A
19A-P10-N-040	19M-P10-B-040	19M-P11-B-040	40A
19A-P10-N-045	19M-P10-B-045	19M-P11-B-045	45A
19A-P10-N-050	19M-P10-B-050	19M-P11-B-050	50A
19A-P10-N-060	19M-P10-B-060	19M-P11-B-060	60A
19A-P10-N-070	19M-P10-B-070	19M-P11-B-070	70A
19A-P10-N-080	19M-P10-B-080	19M-P11-B-080	80A
19A-P10-N-090	19M-P10-B-090	19M-P11-B-090	90A
19A-P10-N-100	19M-P10-B-100	19M-P11-B-100	100A
19A-P10-N-105	19M-P10-B-105	19M-P11-B-105	105A
19A-P10-N-120	19M-P10-B-120	19M-P11-B-120	120A
19A-P10-N-135	19M-P10-B-135	19M-P11-B-135	135A
19A-P10-N-150	19M-P10-B-150	19M-P11-B-150	150A
19A-P10-N-175	19M-P10-B-175	19M-P11-B-175	175A
19A-P10-N-200	19M-P10-B-200	19M-P11-B-200	200A

Voltage: 30VDC
I.R. (25A - 150A): 2.5kA at 14VDC, 1.5kA at 28VDC
I.R. (175A - 200A): 2.5kA at 30VDC
Auto Reset Stocked Version: No indicator.
Auto Reset Indent Options: Red LED or Clear LED Indicator.
Manual Reset Stocked Version: Red Button.
Manual Reset Indent Options: Red LED or Clear LED Button.
All manual reset buttons feature a white ampere marking.
Panel Mounting Hardware Options:
- Thru-hole, no nuts (19x-P10)
- 2 x # 10-32 fitted nuts (19x-P11)
Threaded Studs: 1/4"-28 (12.5mm long), includes 1/4" stainless steel sems nuts.
Housing: UL 94-V0 rated black thermoplastic.
Operating Temp: -40 deg. C to 85 deg. C
Pack Size: 1pc stock lines (9pcs non stock lines).
Approvals: SAE J1625, SAEJ1171, ABYC E-11, UL1077, Mil-STD-202 (101, 106, 213), Mil-STD-204.

19M-P10 Series, Manual Reset TIII
Thru Hole, No Nuts

19M-P11 Series, Manual Reset TIII
#10-32 Mounting Nut

19A-P10 Series, Automatic Reset TI
Non Indicating
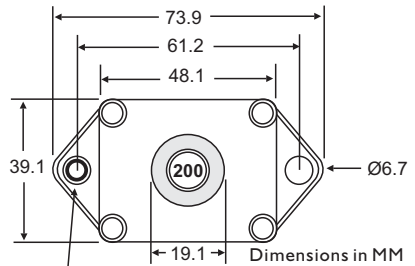
(With #10-32 fitted nut) (Without fitted nut)
Dimensions in MM

Rear Mount Panel Cut-out
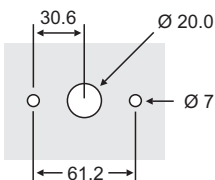
Front Mount Panel Cut-out
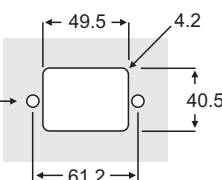
Rear View
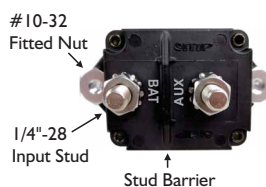
#10-32 Fitted Nut
1/4"-28 Input Stud
Stud Barrier

Scan this QR Code for more information

QR Code: 10003

58

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CIRCUIT BREAKERS - SERIES 19 WIDE MOUNT

MADE IN THE USA | MIL-STD | IP69K | IGNITION PROTECTED | NEW

Features:
- Wide range of ratings from 25A to 200A.
- Superior Ingress Protection, rated to IP67 & IP69K.
- Designed for harsh applications to 30VDC.
- Optional LED tripID version for open circuits.
- Wide bracket version available in natural or black.
- Circuit breaker made in USA. Subassembly made in Australia.

Auto Reset Natural Bracket Part Number	Manual Reset Natural Bracket Part Number	Ampere Rating
19A-P21-N-025	19M-P21-B-025	25A
19A-P21-N-030	19M-P21-B-030	30A
19A-P21-N-035	19M-P21-B-035	35A
19A-P21-N-040	19M-P21-B-040	40A
19A-P21-N-045	19M-P21-B-045	45A
19A-P21-N-050	19M-P21-B-050	50A
19A-P21-N-060	19M-P21-B-060	60A
19A-P21-N-070	19M-P21-B-070	70A
19A-P21-N-080	19M-P21-B-080	80A
19A-P21-N-090	19M-P21-B-090	90A
19A-P21-N-100	19M-P21-B-100	100A
19A-P21-N-105	19M-P21-B-105	105A
19A-P21-N-120	19M-P21-B-120	120A
19A-P21-N-135	19M-P21-B-135	135A
19A-P21-N-150	19M-P21-B-150	150A
19A-P21-N-175	19M-P21-B-175	175A
19A-P21-N-200	19M-P21-B-200	200A
19A-P21-N-175	19M-P21-B-175	175A
19A-P21-N-200	19M-P21-B-200	200A

Voltage: 30VDC
I.R. (25A - 150A): 2.5kA at 14VDC, 1.5kA at 28VDC
I.R. (175A - 200A): 2.5kA at 30VDC
Auto Reset Stocked Version: No indicator.
Auto Reset Indent Options: Red LED or Clear LED Indicator.
Manual Reset Stocked Version: Red Button.
Manual Reset Indent Options: Red LED or Clear LED Button.
All manual reset buttons feature a white ampere marking.
Mounting Plate: Natural finish standard, black finish optional.
Threaded Studs: 1/4"-28 (12.5mm long), includes 1/4"
stainless steel sems nuts.
Housing: UL 94-V0 rated black thermoplastic.
Operating Temp: -40 deg. C to 85 deg. C
Pack Size: 1pc stock lines (36pcs non stock lines).
Approvals: SAE J1625, SAEJ1171, ABYC E-11, UL1077,
Mil-STD-202 (101, 106, 213), Mil-STD-204.

19M-P21-B-xxx Series
Manual Reset TIII
Wide Mounting Bracket
Natural Finish

19M-P21-B-xxxB Series
Manual Reset TIII
Wide Mounting Bracket
Black Finish Option

19A-P21-N-xxx Series
Automatic Reset TI
Wide Mounting Bracket
Natural Finish

100.2
88.9
69.8
54
38.1
25.4
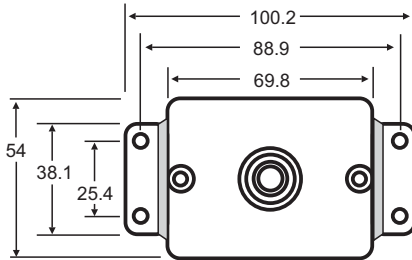
Dimensions in MM

Rear View
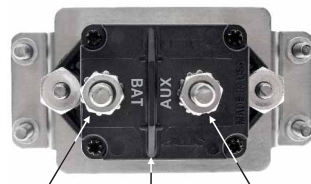
Battery 1/4"-28 Input Stud | Stud Barrier | Auxiliary 1/4"-28 Output Stud

CIRCUIT BREAKERS - SERIES 17 SURFACE MOUNT DIAG

mp Mechanical Products

IGNITION PROTECTED
IP67
MIL-STD

MADE IN THE USA

Features:
- Ignition protected and weatherproof.
- Superior moisture seal.
- Robust thermoplastic case.
- Corrosion resistant studs & hardware.
- 1/4" or 3/8" stainless steel stud options.
- Stronger rubber stud cap lead.
- Accommodates new *trip*ID™
- Made in USA.

Automatic (TI) 1/4" & 3/8" Stud Diagonal Part Number	Manual (TIII) 1/4" Stud Diagonal Part Number	Manual (TIII) 3/8" Stud Diagonal Part Number	Ampere Rating
171-S0-025	175-S0-025	175-S2-025	25A
171-S0-030	175-S0-030	175-S2-030	30A
171-S0-035	175-S0-035	175-S2-035	35A
171-S0-040	175-S0-040	175-S2-040	40A
171-S0-050	175-S0-050	175-S2-050	50A
171-S0-060	175-S0-060	175-S2-060	60A
171-S0-070	175-S0-070	175-S2-070	70A
171-S0-080	175-S0-080	175-S2-080	80A
171-S0-090	175-S0-090	175-S2-090	90A
171-S0-100	175-S0-100	175-S2-100	100A
171-S0-110	175-S0-110	175-S2-110	110A
171-S0-120	175-S0-120	175-S2-120	120A
171-S0-135	175-S0-135	175-S2-135	135A
171-S0-150	175-S0-150	175-S2-150	150A
171-S0-175	175-S0-175	175-S2-175	175A
171-S0-200	175-S0-200	175-S2-200	200A
171-S2-225 ^	-	174-S2-225*	225A NEW
171-S2-250 ^	-	174-S2-250*	250A NEW
171-S2-275 ^	-	-	275A NEW
171-S2-300 ^	-	-	300A NEW

(^ 3/8" Stud only)

* Not PTT - (Push To Trip)
Manual reset only.

Automatic Reset 1/4: Studs

Automatic Reset 3/8" Studs

Manual Reset 1/4" Studs

Manual Reset 3/8" Studs

Voltage Ratings:
Type TI: (25A-200A): 30VDC, (225A-300A): 14VDC.
Type TIII: (25A-150A): 48VDC, (175A-200A): 30VDC.
Type TIII: (225A-250A): 14VDC.

I.R.Ratings:
Type TI (25A-150A): 3kA at 30VDC, (175A-200A): 1.5kA at 30VDC.
Type TI   (225A-300A): 2.5kA at 14VDC.
Type TIII (25A-150A): 2.5kA at 14VDC, 1.5kA at 48VDC .
Type TIII (175A-200A): 2.5kA at 14VDC, 1.5kA at 30VDC.
Type TIII (225A-250A): 1.5kA at 14VDC.

Pack Size: Stock lines 1pc. Indent items 36pcs.
Housing: UL94 V-0 rated black thermoplastic.
Termination: Diagonal 1/4" or 3/8" stud options.
Terminal Hardware: Stainless steel sems nuts included.
Stud Insulator Caps: Included.
Operating Temp: -40°C to 85 °C. **Ingress Protection Rating:** IP67
Indicator: Bright yellow colour reset mechanism provides visual indication of tripped condition on manual reset breakers (Type TIII).
Approvals: SAE J1625, J1171, ABYC E-11, MIL-STD-202, UL1077 (UL)

(Push To Trip button)

8.3
12.5
34.5
10
26.5*

*Overall height of 171 series.

RELATED PRODUCTS *Trip*ID™

TripID Surface mount accessory. Provides a red lit visual indication of an open circuit. Can be reused. Simply snap on and off as required.

Part Number: 17LED-R
Voltage: 10-30VDC

Breaker with *Trip*ID
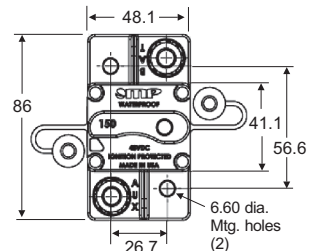
48.1
86
41.1
56.6
6.60 dia. Mtg. holes (2)
26.7

Dimensions in MM

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CIRCUIT BREAKERS - SERIES 17 SURFACE MOUNT SBS

MP Mechanical Products

IGNITION PROTECTED
IP67
MIL-STD

Features:

- Ignition protected and weatherproof.
- Superior moisture seal.
- Robust thermoplastic case.
- Corrosion resistant studs & hardware.
- 1/4" or 3/8" stainless steel stud options.
- Stronger rubber stud cap lead.
- Accommodates new *trip*ID™
- Made in USA.

MADE IN THE USA

CIRCUIT BREAKERS

Manual (TIII) 1/4" Stud Side by Side Part Number	Manual (TIII) 3/8" Stud Side by Side Part Number	Ampere Rating
175-S1-025	175-S3-025	25A
175-S1-030	175-S3-030	30A
175-S1-035	175-S3-035	35A
175-S1-040	175-S3-040	40A
175-S1-050	175-S3-050	50A
175-S1-060	175-S3-060	60A
175-S1-070	175-S3-070	70A
175-S1-080	175-S3-080	80A
175-S1-090	175-S3-090	90A
175-S1-100	175-S3-100	100A
175-S1-110	175-S3-110	110A
175-S1-120	175-S3-120	120A
175-S1-135	175-S3-135	135A
175-S1-150	175-S3-150	150A
175-S1-175	175-S3-175	175A
175-S1-200	175-S3-200	200A
-	174-S3-225*	225A
-	174-S3-250*	250A

* 174 Series Not PTT - (Push To Trip)
Manual reset only.

Manual Reset Type TIII PTT 1/4" Studs Side by Side

Manual Reset Type TIII PTT 3/8" Studs Side by Side

Voltage Ratings:
Type TI: (25A-200A): 30VDC, (225A-300A): 14VDC.
Type TIII PTT: (25A-150A): 48VDC, (175A-200A): 30VDC.
Type TIII: (225A-250A): 14VDC.
I.R. Ratings:
Type TI (25A-150A): 3kA at 30VDC, (175A-200A): 1.5kA at 30VDC.
Type TI (225A-300A): 2.5kA at 14VDC.
Type TIII PTT (25A-150A): 2.5kA at 14VDC, 1.5kA at 48VDC .
Type TIII PTT (175A-200A): 2.5kA at 14VDC, 1.5kA at 30VDC.
Type TIII (225A-250A): 1.5kA at 14VDC.
Reset Function: Manual Reset. Automatic Reset Optional.
Housing: UL94 V-0 rated black thermoplastic.
Termination: Side by Side 1/4" or 3/8" stud options.
Terminal Hardware: Stainless steel sems nuts included.
Stud Insulator Caps: Included.
Operating Temp: -40°C to 85 °C. **Ingress Protection Rating:** IP67
Indicator: Bright yellow colour reset mechanism provides visual indication of tripped condition on manual reset breakers (Type TIII).
Pack Size: Stock lines 1pc, indent items 9 or 36pcs.
Approvals: SAE J1625, J1171, ABYC E-11, MIL-STD-202, UL1077 ⓤ

(Push To Trip button) 8.3
34.5 12.5 26.5*
10
*Overall height of 174 series.

6.60 dia. Mtg. holes (2)   26.7
86.1
73.1
5.0 dia. Mtg. hole (1)   48.1
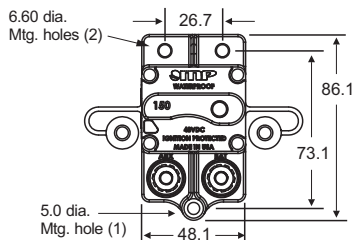
Dimensions in MM

RELATED PRODUCTS - *Trip*ID™

Surface mount accessory. Provides a red lit visual indication of an open circuit.

Part Number: 17LED-R
Voltage: 10-30VDC
Mounting: Snap on.

Open Circuit Red LED Lit

Side by Side Studs with *Trip*ID™

Manual Reset Type TIII 3/8" Studs Side by Side
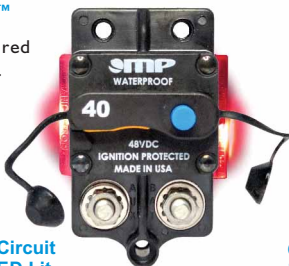
Closed Circuit LED Unlit

CIRCUIT BREAKERS - SERIES 17 PANEL MT

Mechanical Products

IGNITION PROTECTED
IP67
MIL-STD
MADE IN THE USA

Features:
- Ignition protected and weatherproof.
- Standard or 90 degree stud orientation.
- Robust thermoplastic case.
- Corrosion resistant studs & hardware.
- Largest amperage range available.
- 1/4" or 3/8" stainless steel stud options.
- Superior moisture seal.
- Breaker made in USA. Bracket made in AU.

Auto Reset Type TI 1/4" Studs 3/8" Studs ^ Part Number	Manual Reset Type TIII PTT 1/4" Studs Part Number	Manual Reset Type TIII PTT Type TIII * 3/8" Studs Part Number	Ampere Rating	
171-P0-025	175-P0-025	175-P2-025	25A	
171-P0-030	175-P0-030	175-P2-030	30A	
171-P0-035	175-P0-035	175-P2-035	35A	
171-P0-040	175-P0-040	175-P2-040	40A	
171-P0-050	175-P0-050	175-P2-050	50A	
171-P0-060	175-P0-060	175-P2-060	60A	
171-P0-070	175-P0-070	175-P2-070	70A	
171-P0-080	175-P0-080	175-P2-080	80A	
171-P0-090	175-P0-090	175-P2-090	90A	
171-P0-100	175-P0-100	175-P2-100	100A	
171-P0-110	175-P0-110	175-P2-110	110A	
171-P0-120	175-P0-120	175-P2-120	120A	
171-P0-135	175-P0-135	175-P2-135	135A	
171-P0-150	175-P0-150	175-P2-150	150A	
171-P0-175	175-P0-175	175-P2-175	175A	NEW
171-P0-200	175-P0-200	175-P2-200	200A	NEW
171-P2-225 ^	-	175-P2-225	225A	NEW
171-P2-250 ^	-	174-P2-250*	250A	NEW
171-P2-275 ^	-	-	275A	NEW
171-P2-300 ^	-	-	300A	NEW

(^ 3/8" Stud only)

* Not PTT - (Push To Trip) Manual reset only.

I.R.Ratings:
Type TI (25A-150A): 3kA at 30VDC,
Type TI (175A-200A): 1.5kA at 30VDC.
Type TI (225A-300A): 2.5kA at 14VDC.
Type TIII (25A-150A): 2.5kA at 14VDC, 1.5kA at 48VDC .
Type TIII (175A-200A): 2.5kA at 14VDC, 1.5kA at 30VDC.
Type TIII (225A-250A): 1.5kA at 14VDC.

Voltage Ratings:
Type TI: (25A-200A): 30VDC, (225A-300A): 14VDC.
Type TIII: (25A-150A): 48VDC, (175A-200A): 30VDC.
Type TIII: (225A-250A): 14VDC.

Pack Size: Stock lines 1pc, indent items 9pcs.
Housing: UL 94-V0 rated black thermoplastic.
Termination: 1/4" or 3/8" Stainless steel studs.
Terminal Hardware: Stainless steel Sems nuts included.
Operating Temp: -40°C to 85°C. **Ingress Protection Rating:** IP67
Indicator: Bright yellow colour reset mechanism provides visual indication of tripped condition on manual reset breakers (TIII).
Options: 90 Degree position studs suit horizontal busbar.
        (17x-P1 Series is an indent item only)
Approvals: SAE J1625, J1171, ABYC E-11, MIL-STD-202, UL1077 (UL)

Auto Reset Type I Std. Orientation

Manual Reset Type III w/PTT Std. Orientation

Rear View 1/4" Studs Std. Orientation

Rear View 3/8" Studs Std. Orientation

Gasket Accessory
Part Number: B156-7003-J
Material: Black Santoprene.

Right Angle Mounting Bracket
Part Number: PROBRK017
Material: Stainless Steel

Ø 6.5 dia
90 / 40 / 70

6.7 Diameter. Mtg. Holes (2)
48.1 / 73.8 / 39.1 / 61.2

Dimensions in MM
8.3 / 8.4 / 7.9 / 17.4 / 14
17xxxH-xxx-x DATE CODE

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Web: www.prolecproducts.com.au

E·T·N **Bussmann**
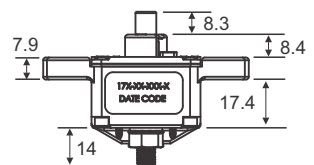
This single pole thermal circuit breaker is typically used in DC power systems in marine applications (as a main or branch circuit breaker), truck, bus & RV systems, add-on protection for accessories, etc. Some models are sealed for engine compartment and bilge applications.

IGNITION PROTECTED

IP66

Features:
• Ignition protected and weatherproof.
• Elastomer over mold front.

Auto Reset Type TI Threaded Mt Part Number	Manual Reset Type TIII - PTT Threaded Mt Part Number	Manual Reset Type TIII - PTT Non-Threaded Mt Part Number	Ampere Rating
25110-B-1	25510-B-1	25510-A-1	10A
25115-B-1	25515-B-1	25515-A-1	15A
25120-B-1	25520-B-1	25520-A-1	20A
25125-B-1	25525-B-1	25525-A-1	25A
25130-B-1	25530-B-1	25530-A-1	30A
25135-B-1	25535-B-1	25535-A-1	35A
25140-B-1	25540-B-1	25540-A-1	40A
25150-B-1	25550-B-1	25550-A-1	50A

Auto Reset No Button (251 series)

Manual Reset Push To Trip - Button (255 series)

CIRCUIT BREAKERS

Voltage: 32VDC
I.R.: 2.5kA as per ABYC E-11.
Reset Mechanism: Type I = Automatic Reset,
Type III PTT = Manual Reset with Push To Trip feature.
Indicator: The 255 series has a unique highly visible yellow colour reset mechanism which provides a visual indication of tripped condition & features a push-to-trip (PTT) option.
Mounting Torque Rating: 2.0Nm max.
Mounting Hole Types: -A-1 (suffix) = #10 Thru-hole insert (not threaded).
-B-1 (suffix) = #8-32 (threaded inserts).
Terminal Hardware: Nylock nuts installed.
Termination: #10-32 Threaded studs.
Operating Temp: -40°C to 85 °C **Storage Temp:** -40°C to 125°C
Body: UL 94 V-0 thermoset plastic
Ingress Protection Rating: IP66
Pack Size: Stock lines 1pc, indent items 60pcs.
Approvals SAE   J553, J1171 & ABYC E-11.

Rear View #10-32 Studs

Automatic Type 251 series
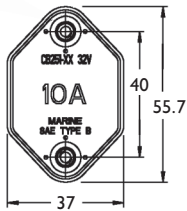
Front Panel Mounting

Ø 31.75

20
40
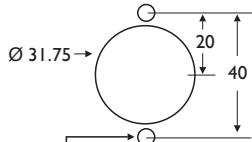
P/N Suffix	Hole Clearance
-A-1	2 x #10-32.
-B-1	2 x #8-32.
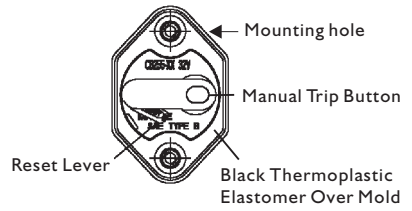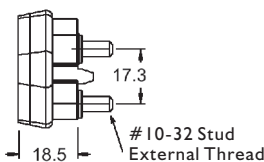
29   40

31.75

Rear Panel Mounting

Manual Type 255 series

Mounting hole

Manual Trip Button

Reset Lever

Black Thermoplastic Elastomer Over Mold

Dimensions in MM

17.3

18.5

#10-32 Stud External Thread

33.8
5.0

Trip Button

21.5
27.8

#10-32 Stud External Thread

PROLEC

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Web: www.prolecproducts.com.au

63

CIRCUIT BREAKERS - HI AMP SURFACE MOUNT DIAG

EAT•N **Bussmann**

IGNITION PROTECTED
IP67
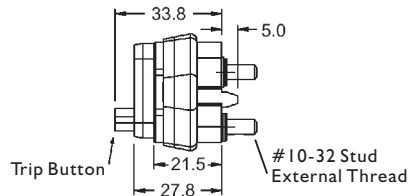
Typically used in auxiliary and accessory circuits for automotive & marine applications. Some models are sealed for engine compartment and bilge area applications.

CIRCUIT BREAKERS

30VDC Auto Reset Type T1 Part Number	48VDC Manual Reset Type TIII PTT Part Number	Ampere Rating
181025F-12-1	285025F	25A
181030F-12-1	285030F	30A
181035F-12-1	285035F	35A
181040F-12-1	285040F	40A
181050F-12-1	285050F	50A
181060F-12-1	285060F	60A
181070F-12-1	285070F	70A
181080F-12-1	285080F	80A
181090F-12-1	285090F	90A
181100F-12-1	285100F	100A
181110F-12-1	285110F	110A
181120F-12-1	285120F	120A
181135F-12-1	285135F	135A
181150F-12-1	285150F	150A

Auto Reset (181 Series)

Manual Reset PTT (285 Series)

I.R.: 3kA at 30VDC (Series 181), 3kA at 48VDC (Series 285)
Voltage: 30VDC (Series 181), 48VDC (Series 285)
Pack Size: Stock lines 1pc, indent items 60pcs
Termination: 1/4"-28 threaded studs (Series 181), M6 threaded studs (Series 285)
Operating Temp: -40°C to 85 °C (All Series)
Storage Temp: -34°C to 149°C (Series 181), -40°C to 125°C (Series 285).
Ingress Protection Rating: IP67
Housing: UL 94 V-0 thermoset plastic.
Indicator: Reset mechanism provides visual indication of tripped condition on manual reset breakers. Black colour (184 & 185 Series), Yellow colour (285 Series).
Features: Ignition Protected and weatherproof.
Stud Insulator Caps: Included
Terminal Hardware: Stainless steel nuts and lock washers installed.
Notes: The 285 series is a drop in replacement for the 185 series. 184 series also available which is manual reset only, no PTT bright red switch button feature. CE
Approvals: SAE J1625, SAE J1171, ABYC E-11

285 Series Feature Upgrades

Larger Contact Plate
More Space Around Stud
Low Profile Design Same Mounting
Bright Yellow Reset Lever

Stud Cover | 48Vdc Approved | Bright Red Switch Button
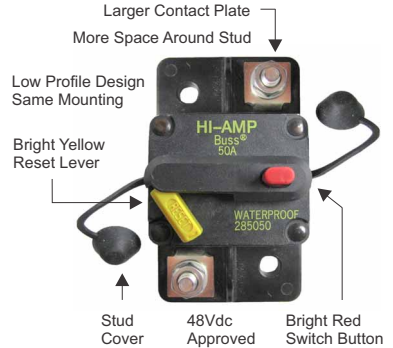
181 Series (Standard Profile, Compact Body)

Push To Trip button (PTT) Only on manual switchable model
Molded cover
36.58 27.69*
1/4-28 Studs
10.16 *Overall height of 181 series
(6.60) dia. Mtg.holes (2)
26.67
73.41 56.64
48.26
Stud insulators
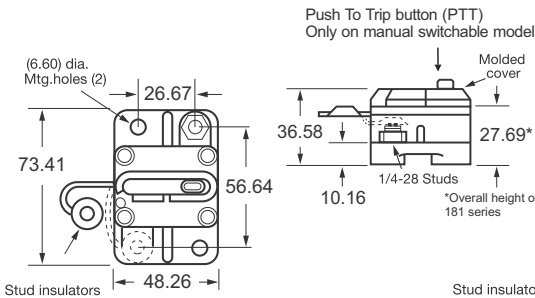
285 Series (Low Profile, Extended Body)
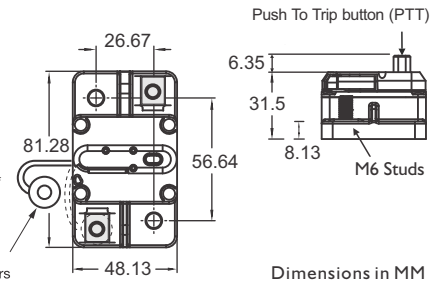
26.67
81.28 56.64
48.13
Stud insulators

Push To Trip button (PTT)
6.35
31.5
8.13
M6 Studs
Dimensions in MM

64

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E·T·N **Bussmann**

Typically used in auxiliary and accessory circuits for automotive & marine applications. Some models are sealed for engine compartment and bilge area applications.

IGNITION
PROTECTED
IP67

Manual Reset Type TIII PTT

Part Number	Ampere Rating
285025P	25A
285030P	30A
285035P	35A
285040P	40A
285050P	50A
285060P	60A
285070P	70A
285080P	80A
285090P	90A
285100P	100A
285110P	110A
285120P	120A
285135P	135A
285150P	150A

Rear View M6 Studs

Manual Reset PTT (285 Series)

I.R.: 3kA at 48VDC
Voltage: 48VDC
Termination: M6 threaded studs.
Operating Temp: -40°C to 85 °C.
Storage Temp: -40°C to 125°C.
Ingress Protection Rating: IP67
Housing: UL 94 V-0 thermoset plastic.
Indicator: Bright yellow colour reset mechanism provides visual indication of tripped condition on manual reset breakers.
Features: Ignition Protected and weatherproof.
Terminal Hardware: Stainless steel nuts and lock washers installed.
Pack Size: Stock lines 1pc, indent items 60pcs
Notes: The 285 series is a drop in replacement for the 185 series. 184 series also available which is manual reset only, no PTT feature.
Approvals: SAE J1625, SAE J1171, ABYC E-11 CE

Gasket Accessory B156-7003-J

Gasket Fitted To Breaker

Gasket Part Number: B156-7003-J
Material: Black Santoprene.
Notes: Optional flange mount gasket for through wall applications. Gasket wraps around breaker to provide a seal between the circuit breaker housing and the panel.

Suggested Mounting Cutout

61.21
39.3
48.3
6.60 diameter Mounting holes (2)
Dimensions in MM

6.60 dia. Mtg. holes (2)
Reset lever (Shown tripped)
73.91
61.21
39.12
48.26
Tamper proof cover

Molded cover
Push to Trip Button (PTT) (285 series)
6.35
16.76
7.87
45.47
36.58*
22.61
14.49
26.92
*Overall height of 181 series

1/4-28 Studs (181 Series - Automatic Reset)
M6 Studs (285 Series - Manual Reset PTT)

CIRCUIT BREAKERS

CIRCUIT BREAKERS - MARINE RATED

E·T·N **Bussmann**

IGNITION PROTECTED

IP66

Typically used in DC power systems in marine applications (as a main or branch circuit breaker), truck and bus systems, RV systems, add-on protection for accessories, lift gates, etc.

Features:
- Single lever for manual reset switching operations.
- Capable of withstanding 3000 on/off cycles at 48VDC.
- Ignition Protected and weatherproof.
- Corrosion resistive materials.
- Large clearance around studs to accept large gauge wire lugs.

Surface Mount Manual Reset TIII Switchable Part Number	Panel Mount Manual Reset TIII Switchable Part Number	Ampere Rating
187025F-03-1	187025P-03-1	25A
187030F-03-1	187030P-03-1	30A
187035F-03-1	187035P-03-1	35A
187040F-03-1	187040P-03-1	40A
187050F-03-1	187050P-03-1	50A
187060F-03-1	187060P-03-1	60A
187070F-03-1	187070P-03-1	70A
187080F-03-1	187080P-03-1	80A
187100F-03-1	187100P-03-1	100A
187110F-03-1	187110P-03-1	110A
187120F-03-1	187120P-03-1	120A
187135F-03-1	187135P-03-1	135A
187150F-03-1	187150P-03-1	150A
187200F-03-1	187200P-03-1	200A

Surface Mount Manual Reset

5/16"-18 Threaded Studs

Voltage: 48VDC
I.R.: Main Breaker Protection.
    5kA at 14VDC, 3kA at 28VDC, 1.5kA at 48VDC
Reset Mechanism: Type TIII, Manual reset & switchable.
Pack Size: Stock lines 1pc, indent items 60pcs.
Mounting Options: Surface or Panel Mount.
Operating Temp: -40°C to 85 °C.
Storage Temp: -40°C to 125°C
Materials: Base UL-Rated 94V-0 thermoset plastic.
        Cover & lever UL-Rated 94V-0 thermoplastic.
Marking: Standard marking includes amp/volt ratings.
Terminal Hardware: Stainless nuts & lock washers installed.
Termination: 5/16"-18 threaded studs.
Torque Rating: 8.5Nm max.
Mounting Torque Rating: 5.6Nm max.
Ingress Protection Rating: IP66
Approvals: SAE J1171, ABYC E-11 CE

Panel Mount Manual Reset

Series 87.
Marine Rated Circuit Breakers.
Panel or Surface Mount
48VDC
25A through to 250A.

NEW

Mechanical Products

Scan this QR Code for more information

QR Code: 10004

Recommended Panel Mounting Cut-Out

#10 Mount Hole Size

Ø 55.56

69.85
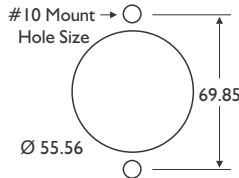
Recessed Mounting Hole for #10 Screws

69.85

28.84
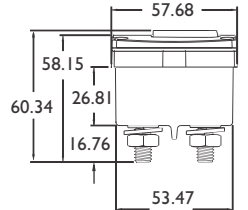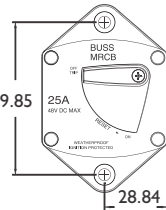
Dimensions in MM   5/16"-18 Threaded Studs

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Fuse Holders, Fuse Blocks & Panels

Quality built products.

FUSE HOLDERS

67

LV FUSE CLIPS BOARD MOUNT

PROLEC

Part Number	Holder	Fuse Type	Rating	Orientation	Mounting Method
FC-MINV	Clip	Mini Blade	15A	Vertical	Thru Hole Mount
FC-MINH	Clip	Mini Blade	15A	Horizontal	Thru Hole Mount
FC-ATOV	Clip	Auto Blade	15A	Vertical	Thru Hole Mount
FC-ATOH	Clip	Auto Blade	15A	Horizontal	Thru Hole Mount
FC-MAXV	Clip	Maxi Blade	50A	Vertical	Thru Hole Mount
FCB-26	Board	Mini Blade	15A	Vertical	Thru Hole Mount
FCB-25	Board	Auto Blade	20A	Vertical	Thru Hole Mount

Material: Tin plated spring brass.
Pack Size: Varies, please contact sales.
Note Clips: 2pcs required per fuse.
Data Sheet: Contact sales
Approvals: RoHS

Mini Fuse Board THM

Auto Fuse Board THM

Mini Clips Vertical

Mini Clips Horizontal

Auto Clip Vertical

Auto Clips Horizontal

Maxi Clips Vertical

AUTO FUSE HOLDER BOARD MOUNT

MTA

Part Number	Description
00420	Fuse holder
00359	Clear cover

Rating: 15A **Voltage:** 32V
Body: Black PA66, UL94 V2.
Mounting: Thru Hole Mount.
Cover: Transparent PC
Terminals: Tin plated phosphor bronze, Inox-steel clip included.
Feature: Stackable end or side.
Pack Size: 1, 10, 100, 1000
Notes: Auto fuse is not included.

RELATED PRODUCTS: **Auto Fuse** (see p.17)

Mounting Pattern

2.5
13.0
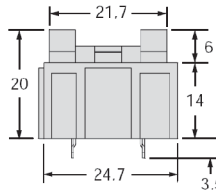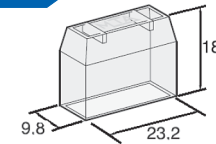
Dimensions in MM
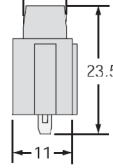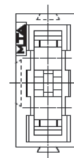
EV CARTRIDGE FUSE CLIPS 10.3MM DIAMETER

Adler

Part Number	Mounting Type
BC800	Thru Hole Mount

Rating: 32A
Voltage: 250V-1500V
Clip Material: Brass, Tin plated.
Pack Size (bag): 2, 10, 100, 1000
Feature: Fuse end stop
Suits EV Cartridge Fuse: 10.3 x 38.1mm.
Approvals: RoHS

RELATED PRODUCTS: **EV Cartridge Fuses** (see p.32 -34)

10.5
Ø2.5

Mounting Pattern

Ø3.6
11
5.9
8.4
7.8
2
12
18
9.6
0.7

Dimensions in MM

PROLEC

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Web: www.prolecproducts.com.au
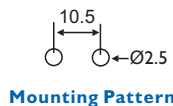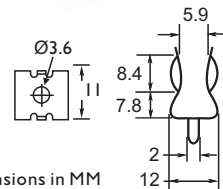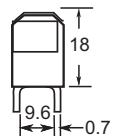
3AG FUSE HOLDERS PANEL MOUNT

EAT•N **Bussmann**

Part Number	Knob Type	Terminal Type / Angle
HTB-26I-R	Fingergrip	1/4" Q/C (6.35mm) Straight
HTB-22I-R	Fingergrip	3/16" Q/C (4.8mm) or Solder, Straight
HTB-34I-R	Screwdriver	3/16" Q/C (4.8mm) or Solder, Right

Voltage: 250V
Rating: 20A
Terminals: Tin plated brass.
Mounting Standard: Low profile, rear hex nut.
Mounting Option: High profile, please contact sales.
Ambient Temperature: -55°C to +85°C.
Body: Flame retardant thermoplastic UL 94VO.
Accessories: Includes plastic nut and spacer.
Options: Finger-grip type holders may be ordered
with 'splash proof' knob, please contact sales.
Pack Size: 1, 10, 100
Note: Maximum panel Thickness: 7.62mm
Notes: Fuse is not included.
Approvals: 🅁🅄 🅒🅤🅛 Ⓢ ⚠ CE RoHS

11.9 — 28.6
2.4

Finger Grip Knob

4.37 — 40.03
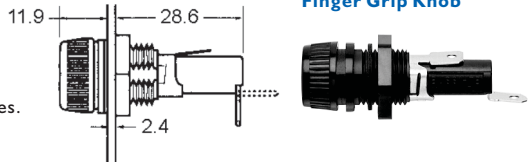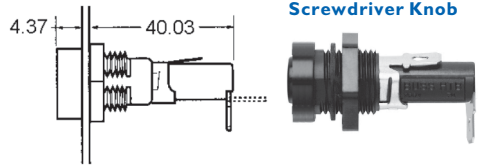
Screwdriver Knob

Mounting Hole Double D Type

12.8
11.7
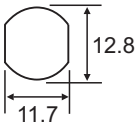
Dimensions in MM

1/4" Terminal Types

11.9 — Straight 6.35mm (1/4") Quick Connect (Q/C)

11.5 — Right 6.35mm (1/4") Quick Connect (Q/C)

3/16" Terminal Types

8.7 — Straight 4.8mm (3/16") Quick Connect (Q/C) or Solder

8.3 — Right 4.8mm (3/16") Quick Connect (Q/C) or Solder

FUSE HOLDERS

3AG 250V / 500V IN-LINE FUSE HOLDERS

Littelfuse®

NEW

Features:
- High voltage rating accommodates many power applications.
- Single piece molded body minimizes component count.
- Wire leads are pre-attached to fuse clips for quick assembly.
- UL Recognized.

Part Number	Description
150322	15A 500VAC / 500VDC
150332	15A 250VAC / 250VDC

Terminals: Tin plated brass.
Wire Gauge: 0.8mm^2 (#18 AWG) Black, 150°C stranded.
Wire Length: 200mm each side of the body included.
Pack Size: 1, 10, 100, 1000
Note: 3AG fuse not included.
Approvals: 🅁🅄 UL/CSA 4248.1, E14721 RoHS

Clamshell Open / Close
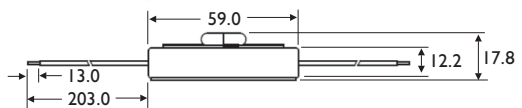
RELATED PRODUCTS:

AGC / 3AG Fuses
(see p.10 & 11)

3AB Fuses
(see p.11)

59.0
13.0
203.0
12.2
17.8

Dimensions in MM

PROLEC

3AG 250V IN-LINE HOLDER SPLASH PROOF

EAT•N **Bussmann**

IP64

Part Number
HFA-R

Rating: 20A **Voltage:** 250V
Flammability: UL 94 HB (phenolic body)
Temperature Rating (RTI): 150°C
Holder Type: Bayonet Type
Ingress Protection: IP64 Rating for exposed locations.
Contacts: Copper crimp
Crimp Terminal: 1 - 3mm^2 (#16-12AWG) copper wire.
Crimp Tool: Thomas & Betts WT-112M
Pack Size: 1, 10, 20, 100, 500
Approvals: ® RoHS

Crimp Terminal

11.1   59.7   11.1
15.3   20.3
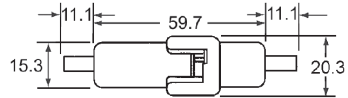
Dimensions in MM

RELATED PRODUCTS:

AGC / 3AG Fuses
(see p.10 & 11)

3AB Fuses
(see p.11)

3AG 32V IN-LINE HOLDER & 20A FUSE

EAT•N **Bussmann**

NEW

Part Number	Description
HRJ	20A Bayonet holder

Voltage: 32V
Temperature Rating (RTI): 140°C.
Wire Thickness: 2mm^2 (#14 AWG).
Wire Length: 480mm loop.
Pack Size: 1, 10, 100, 500, 1000

Bonus Feature:
Fuse holder includes 3AG 20A fuse. # AGC020
Fuse specifications: Glass case 6.35 x 31.8mm
20A 32VAC/DC

**AGC020 Fuse
(Included)**
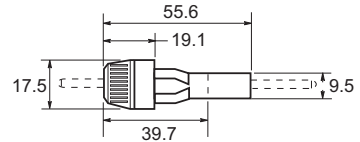
55.6
19.1
17.5   9.5
39.7

Dimensions in MM

3AG 32V IN-LINE HOLDER

EAT•N **Bussmann**

NEW

Part Number	Description
HHN	30A Twist lock holder

Voltage: 32V
Body: Nylon Heavy Duty White Body.
Wire Thickness: 3mm^2 (#12 AWG) yellow.
Wire Length: 2 x 100mm lengths of wire.
Pack Size: 1, 10, 100, 500, 1000
Notes: Fuse is not included

14
65

Dimensions in MM

RELATED PRODUCTS:

AGC / 3AG
(see p.10 & 11)

AGC Fuse Kit
(see p.38)

PROLEC
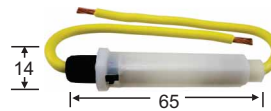
FUSE HOLDERS

3AG, 7AG, 8AG 32V IN-LINE HOLDER

EAT·N **Bussmann**

Part Number
HHB-R

Rating: 30A
Voltage: 32V
Body: Nylon (high visibility yellow colour).
Flammability: UL 94 V2
Wire Thickness: 1 - 3mm^2 (#16-12 AWG). Wire not included.
Crimp: Simple crimp assembly, copper tin plated.
Crimp Tools: Thomas & Betts ERG4001, Channelock No.909, General Electric - U.S. & Metric Electrical Terminal Tool.
Assembled Holder Option: Can be ordered assembled with #14 AWG insulated leads in lengths of either 204mm or 483mm. Lead colour options; red, black, yellow).
Contact sales for further information.
Suits Fuses: Cartridge fuse types 7AG, 8AG and 3AG.
Pack Size: 1, 10, 100, 500, 1000
Approvals: RoHS

Crimp Terminal
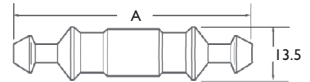
With Fuse Installed	"A" Dimension
7AG (AGW)	53.34mm
8AG (AGX)	57.19mm
3AG (AGC)	61.5mm

RELATED PRODUCTS:

AGC / 3AG
(see p.10 & 11)

AGC Fuse Kit
(see p.38)

3AG 32V IN-LINE HOLDER SPLASH PROOF

EAT·N **Bussmann**

IP67

Features:
• Ideal for harsh environments. Water, salt spray, ultraviolet light, Ozone.
• Withstands many organic solvents, rigorous shock and vibration.

Part Number
HFB-R

Rating: 30A
Voltage: 32V
Body: Thermoplastic rubber, high visibility yellow colour.
Contacts: Tin plated copper
Temperature Range: -40°C to +150°C
Flammability: UL 94 HB
Wire Thickness: 0.8 - 3mm^2 (#18-12 AWG) wire not included.
Ingress Protection: IP67 Rating for exposed locations.
Crimp Tools: Thomas & Betts WT-112M, Channelock No.909., California Terminal Products No.1250
Pack Size: 1, 10, 100
Approvals: RoHS

Crimp Terminal

RELATED PRODUCTS:

AGC / 3AG
(see p.10 & 11)

Possible Mounting Arrangement

Dimensions in MM

FUSE HOLDERS

LOW PROFILE MINI FUSE IN-LINE HOLDER

PROLEC

Part Number	Description
FHL002	30A Holder with cover

Voltage: 58VDC
Body: Black Nylon PA66.
Terminals: Tin / Nickel plated Bronze.
Wire Gauge: 3mm² (#12AWG) red.
Wire Length: 2 x 133mm lengths of wire.
Pack Size: 1, 10, 100, 1000
Notes: Fuse is not included.
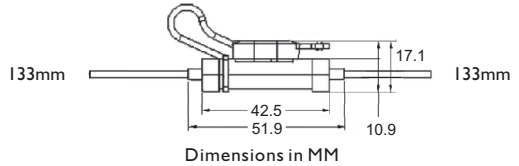
RELATED PRODUCTS: **Low Profile Minifuse** (see p.14)

133mm   133mm
17.1
42.5
51.9   10.9

Dimensions in MM

MICRO2 IN-LINE HOLDER SPLASH PROOF

PROLEC

Part Number	Description
FHC002	30A Holder with cover

Voltage: 32V
Wire: 3mm² (#12AWG) stranded.
Wire Length: 305mm red wire loop.
Body: Black PVC.
Terminals: Tin plated brass.
Pack Size: 1, 10, 100, 1000.

RELATED PRODUCTS: **Micro2 Fuse** (see p.13)

15
10
31
305mm Loop

12.6
14.5   Dimensions in MM
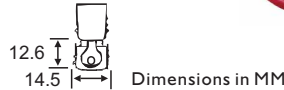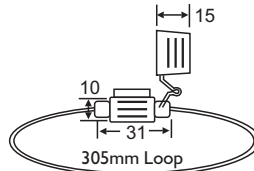
MINI FUSE IN-LINE HOLDERS

MTA

Part Number	Fuse Holder Kits Include;
01400K1	Fuse holder body and 2 x 10A terminals 01400, 2 x 07209BK (0.5 - 1mm²)
01400K2	Fuse holder body and 2 x 14A terminals 01400, 2 x 07212BK (1.5 - 2.5mm²)

Voltage: 32V
Body: Polyamide 6.6 (PA66)
Features: Gangable. Lateral or snap mount fixing.
Fuse Holder Kit Pack Size: 1, 10, 100
Mounting Plate Pack Size: 1000
Notes: Fuse and fixing plate are not included.
Approvals: RoHS

Gangable Feature   **Mini Fuse**

13.5
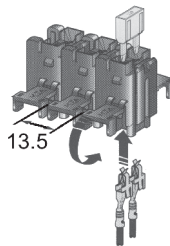
Fuse Holder Body

Terminals
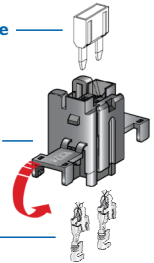
RELATED PRODUCTS:

Mini Fuse (see p.15)   **LED Mini Fuse** (see p.15)   **Fixing Plate** Snap Mount # 00395

Mounting Option
Sp. 1.2 - 2.5   ø6.5
13.6   14   22

Fixing Plate

16.2   26   9

15   12.2   41.4

Dimensions in MM

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MINI FUSE IN-LINE HOLDERS

Littelfuse®

IP67

IGNITION PROTECTED
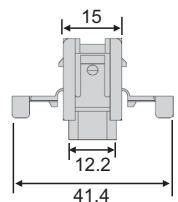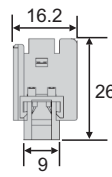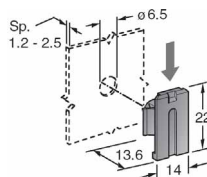
Part Number	Description
FHM001	20A with cover, 2.1mm² #14AWG Black
FHM002	30A with cover, 3.3mm² #12AWG Orange

Voltage: 32V-58V
Wire: 125°C rated, GXL wires, tinned stranded copper.
Body: Black thermoplastic
Ignition Proof: UL94
Ignition Protection: V-2 / V-0
Ingress Rating: IP67 Cover dustproof & waterproof.
Pack Size: 1, 10, 100, 1000
Note: Fuses are not included.
Approvals: RoHS

FHM002

FHM001

Dimensions in MM

17 22 18 14 13 13

94 56 94

RELATED PRODUCTS: Mini Fuse (see p.15) Mini Fuse 58V (see p.16)

MINI FUSE IN-LINE HOLDER

EAT•N **Bussmann**

NEW

IP66
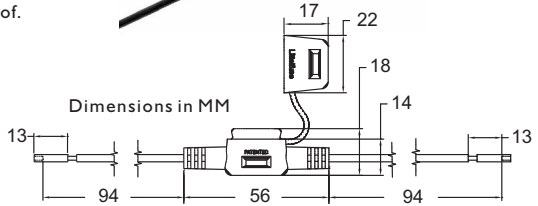
Part Number	Description
HHL	20A with cover, 1.0mm² #16AWG

Voltage: 32V
Wire: Black, 26 strand copper, no plating.
Contact Material: Brass, tin-plated.
Insulation Body: Santoprene TPV.
Feature: Cover is splash proof
Pack Size: 1, 10, 100, 1000
Approvals: (UL) 3266, *SAE* J2030 RoHS

RELATED PRODUCT: Mini Fuse (see p.15)

Dimensions in MM

20.0 13.3 14.9

6.35

100 39.62 100

MINI FUSE IN-LINE HOLDERS CLEAR

PROLEC

NEW

IP66
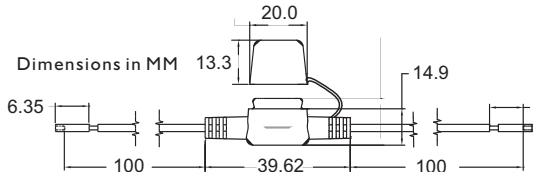
FHM00XCLR is a transparent inline fuse holder with protective cap that when used with a LED indicating mini blade fuse it lights up when a fuse is blown.

Part Number	Description
FHM001CLR	20A with clear cover, 1.0mm² #16AWG
FHM002CLR	30A with clear cover, 3.3mm² #12AWG

Voltage: 32V
Wire Length: 2 x 125mm lengths of wire
Body: Transparent thermoplastic
Feature: Cover is splash proof
Pack Size: 1, 10, 100, 1000
Approvals: RoHS

Blown LED Mini Fuse Lights Up Clear Cover
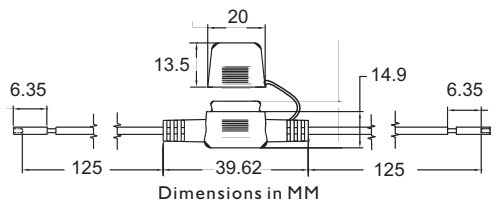
RELATED PRODUCT: LED Mini Fuse (see p.15)

20 13.5 14.9

6.35 6.35

125 39.62 125

Dimensions in MM

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73

AUTO FUSE IN-LINE HOLDERS

Littelfuse®

Features:
- Capable of snap-mounting to panel from rear.
- Fuse holders gang together (stackable).

Auto Blade Fuse

Part Number	Fuse Holder Kits Include;
155320U	Fuse holder kit includes holder & terminals 20A 868-062-000 & 2 x 913-008-001
155430U	Fuse holder kit includes holder & terminals 30A 868-062-000 & 2 x 913-007-001

Fuse Holder Body

Part Number	Individual Component Ordering
868-062-000	Fuse holder body only (black) snap lockable
913-008-001	Terminal 2.1mm² (#14 AWG stranded wire)
913-007-001	Terminal 5.3mm² (#10 AWG stranded wire)

Voltage: 32V
Body: Black thermoplastic (UL 94V2)
Terminals: Tin plated brass (snap-lock into body)
Ambient Temp: -40°C to +85°C
Panel Thickness: 1.02mm / 1.98 mm
Notes: Fuse is not included.
Approvals: RoHS

Terminals

FUSE HOLDERS

Mounting Hole

10.5

Add 10.2 for each additional holder

27.9

Gang Mount Option

10.2

30.5

Fuse Holder Body

37.1

24.8

AUTO FUSE IN-LINE HOLDER

PROLEC
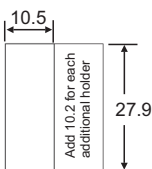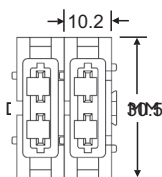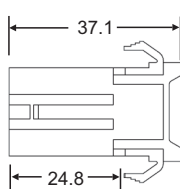
Easy to install. Simply locate fuse holder at a convenient spot along the wire between power source and the appliance. Use pliers to crimp fuse holder closed around wire to pierce insulation automatically.

Part Number	Description
FH-302	20A Fuse holder.

Voltage: 32V
Body: Royal blue polypropylene
Terminals: Self stripping
Wire: 0.8-2.0mm² (#18-14AWG).
Maximum Cable Outer Dia: 3.7mm
Contacts: Nickel plated brass
Pack Size: 10, 100, 1000
Notes: Fuse is not included.
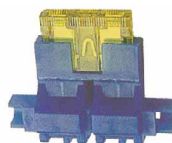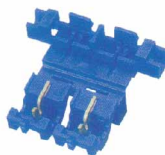
Open
34.3
16.0
11.7
22.8
5.0
Dimensions in MM

Closed
24.1
34.8
2.7
19.0
11.2
Cable Dia. 3.7 max.

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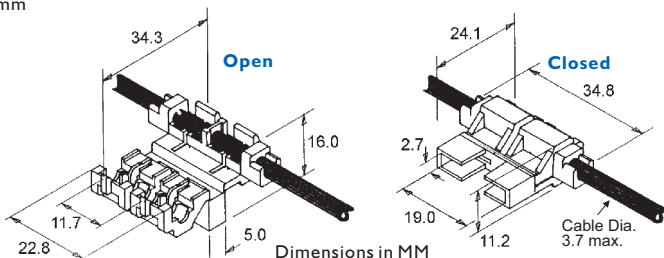
AUTO FUSE IN-LINE HOLDER

Voltage: 32V
Body: White PA 66
Feature: Gangable. Fuse holders interlock.
Pack Size: 1, 10, 100
Notes: Fuse is not included.

Auto Fuse

Gangable Feature

6.3
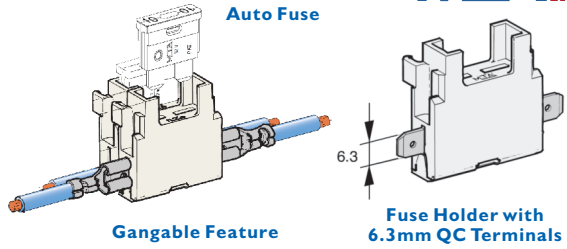
**Fuse Holder with
6.3mm QC Terminals**

RELATED PRODUCTS:

Auto Fuse
(see p.17)

LED Auto Fuse
(see p.17)

24

4.8

26.8

Screw
2.9 x 9.5mm

Fixing Plate

11.8

29

7.6

28
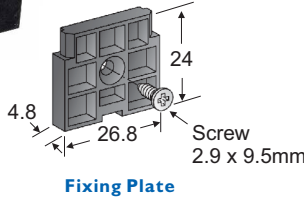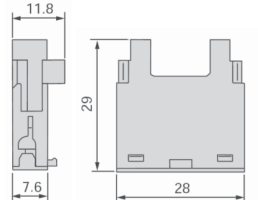
Dimensions in MM

AUTO FUSE IN-LINE HOLDER (PANEL MT)

Voltage: 32V
Body: Black PA 66.
Body Options: Also available without terminals (#00331).
Terminal Options: Crimp type with or without clip (14A, 20A, 37A).
Terminal Packaging Options: BK = Bulk Pack, RL = Reel Pack
Contact sales for further information.
Fuse Holder Pack Size: 1, 10, 100
Secondary Lock Pack Size: 250
Notes: Fuses & circuit breakers are not included.

**Fuse Holder 00330
with Auto Fuse**

6.3
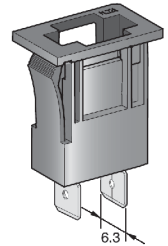
**Quick Connect
Terminals**

Panel Mounting
Dimensions (mm)

a	b
21.9	0.8
22.0	1.0
22.1	1.5
22.2	2.0

Mounting Hole
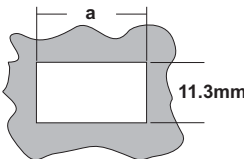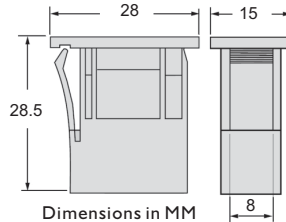
a

11.3mm

Panel Thickness

b

28

15

28.5

8

Dimensions in MM

RELATED PRODUCTS:

Auto Fuse
(see p.17)

LED Auto Fuse
(see p.17)

Auto Breaker
(see p.49)

**Secondary
Terminal
Lock**
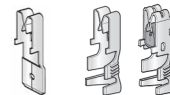
Terminal Options
1/4" QC
(Contact us)

Crimp
(Contact us)

**Fuse Holder
with Bladed
Breaker**

FUSE HOLDERS

AUTO FUSE IN-LINE HOLDERS WITH COVER

Littelfuse®

Part Number	Description
FHAC001	20A with cover, 1.3mm² (#16AWG) Black
FHAC002	30A with cover, 3.3mm² (#12AWG) Orange

IP67

IGNITION PROTECTED

Voltage: 32V-58V
Wire: 125°C rated, GXL wires, Tinned stranded copper
Body: Black thermoplastic
Ignition Proof: UL94
Ignition Protection: V-2 / V-0
Ingress Rating: IP67
Feature: Cover dustproof & waterproof.
Pack Size: 1, 10, 100, 1000
Approvals: RoHS

FHAC001

FHAC002

RELATED PRODUCTS:

Auto Fuse
(see p.17)

Auto Fuse 58V
(see p.16)

Auto Fuse Kit
(see p.39)

Butt Splice Connectors
(see p.188)

Female Insulated Disconnects
(see p.188)

20
21.2
12   17.2
90   50   90

Dimensions in MM

AUTO FUSE IN-LINE HOLDERS CLEAR

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FHAC00xCLR is a transparent inline fuse holder with protective cap that when used with a LED indicating auto blade fuse lights up when a fuse is blown.

NEW

IP66

Part Number	Description
FHAC001CLR	20A with clear cover, 1.3mm² (#16AWG)
FHAC002CLR	30A with clear cover, 3.3mm² (#12AWG)

Normal State Fuse

Voltage: 32V
Body: Transparent thermoplastic
Wire Length: 2 x 130mm lengths of wire
Feature: Cover is splash proof
Pack Size: 1, 10, 100, 1000
Approvals: RoHS

Blown Fuse Lights Up

RELATED PRODUCTS:

LED Auto Fuse
(see p.17)

LED Auto Fuse Pack
(see p.36)

LED Auto Fuse Kit
(see p.39)

PROLEC

AUTO FUSE IN-LINE HOLDERS WATERPROOF

PROLEC

IP67

Features:
• The lid features a tight snap lock feature and a mounting hole.
• The base features weatherproof seals for both the top and bottom.
• Ingress Protection rating of IP67.
• 2 x Pre-terminated and sealed lengths of wire included.

Part Number	Description
HHR	30A with 130mm (5") long wire
HHRL	30A with 305mm (12") long wire NEW

Voltage: 32V
Cover: Snap locking cover includes mounting hole.
Body Seals: Silicone gasket and cable seal.
Pack Size: 1, 10, 100
Wire: 3.0mm^2 (#12AWG).
Notes: Fuse is not included.
Approvals: RoHS

RELATED PRODUCTS:

Auto Fuse
(see p.17)

LED Auto Fuse
(see p.17)
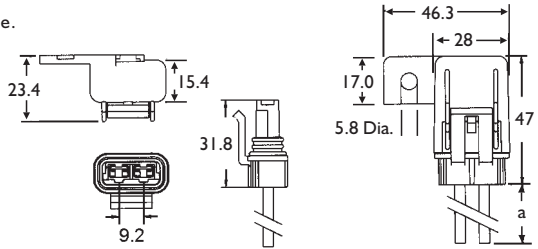
Dimensions in MM

a = 130mm # HHR
a = 305mm # HHRL

FUSE / BREAKER IN-LINE HOLDER WATERPROOF

PROLEC

IP67

Features:
• Clear cover is allows visual identification of circuit protection device.
• Clear cover alerts a problem to the user when an LED indicating fuses is blown.
• The fuse holder suits multiple blade fuse types.
• The fuse holder extended cap also suits various bladed circuit breaker types.
• The lid features a tight snap lock feature and a mounting hole.
• The base features weatherproof seals for both the top and bottom IP67.
• Extra long 2 x 305mm / 12" lengths of wire included.

Part Number	Description
FHU002L	30A with Extended Cover

305mm (12") Cables

Voltage: 32V
Body: Black waterproof inline fuse holder.
Body Seal: Silicone gasket.
Cover: Clear cover with lock and mounting hole.
Suits: Mini, LED Mini, Auto and LED Auto Blade Fuses, Mini and Auto Bladed Circuit Breakers.
Wire: 3.0mm^2 (#12AWG).
Wire Length: 2 x 305mm / 12" lengths of wire.
Pack Size: 1, 10, 100, 500
Notes: Fuse & breakers are not included.
Approvals: RoHS
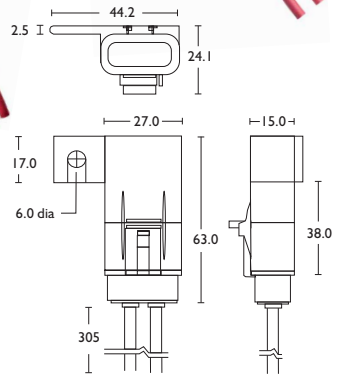
RELATED PRODUCTS:

Mini Fuse & LED Mini Fuse
(see p.15)

Mini Breaker
(see p.48)

Auto Fuse & LED Auto Fuse
(see p.17)

Auto Breaker
(see p.49)

Dimensions in MM

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AUTO FUSE IN-LINE HOLDERS

Part Number	Fuse Holder Kits Include;	Pack Size	
00400K1	00400, 00415, 00430 & 2 x 07920BK	1	NEW
00400K2	00400, 00415, 00430 & 2 x 07930BK	1	NEW
00400K3	00400, 00415, 00430 & 2 x 07940BK	1	NEW

Part Number	Individual Component Ordering	Pack Size
00400	Fuse holder body black PA 66	1, 10, 100
00415	Fuse holder cover black PA 66	1, 25, 100
07900BK	Terminal 0.5 to 1.5mm² 14A (RL*)	10, 20, 100
07912RL	Terminal 2 to 3mm² 20A (RL)	10, 9000
07901BK	Terminal 4 to 6mm² 37A (RL*)	10, 20, 100
07920BK	Terminal 0.5 to 1.5mm² +Clip 14A (RL*)	10, 20, 100
07930BK	Terminal 2 to 3mm² +Clip 20A (RL*)	10, 20, 100
07940BK	Terminal 4 to 6mm² +Clip 37A (RL*)	10, 20, 100
00392	Fixing plate snap mount	1, 10, 100
00430	Fixing plate single screw, M5	1, 10, 100
00440	Fixing plate dual screw, M5	1, 10, 100

Terminal Options: BK = Bulk pack, RL = *Reel Pack MOQ applies.
Accessories: Snap lock fixing plate and bracket accessories.
Features: Gangable. Lateral fixing.   **Approvals:** RoHS

Fuse Holder Cover

Fuse Holder Body

Closing Tabs

Terminal Types

Scan this QR Code for more information

QR Code: 7001

AUTO FUSE IN-LINE HOLDERS SPLASH PROOF

Part Number	Fuse Holder Kits Include;	Pack Size	
50153K	02330, 00392 & 2 x 07920BK.	1	NEW
50153K1	02330, 00392, 2 x 07920BK & 2 x 4507770.	1	NEW
50153K2	02330, 00392, 2 x 07930BK & 2 x 4507771.	1	NEW
02330K1	02330, 00430, 2 x 07920BK & 2 x 4507770.	1	NEW
02330K2	02330, 00430, 2 x 07930BK & 2 x 4507771.	1	NEW
02330K3	02330, 00430, 2 x 07940BK & 2 x 4507771.	1	NEW

IP66

Part Number	Individual Component Ordering	Pack Size
02330	Housing w/secondary lock, gasket & cover	1, 10, 100
07900BK	Terminal 0.5 to 1.5mm² 14A (RL*)	10, 20, 100
07912RL	Terminal 2 to 3mm² 20A (RL)	10, 9000
07901BK	Terminal 4 to 6mm² 37A (RL*)	10, 20, 100
07920BK	Terminal 0.5 to 1.5mm² +Clip 14A (RL*)	10, 20, 100
07930BK	Terminal 2 to 3mm² +Clip 20A (RL*)	10, 20, 100
07940BK	Terminal 4 to 6mm² +Clip 37A (RL*)	10, 20, 100
4507770	Cable seal for 0.5 - 1.5 mm² wire, orange	10, 100
4507771	Cable seal for 2.0 - 3.0 mm² wire, yellow	10, 100
00392	Fixing plate snap mount	1, 10, 100
00430	Fixing plate single screw, M5	1, 10, 100
00440	Fixing plate dual screw, M5	1, 10, 100
00697	Mounting bracket slide lock male	1, 10, 100 NEW
00698	Mounting bracket slide lock female	1, 10, 100 NEW

Cover

Secondary Lock

Gasket

Auto Blade Fuse

Housing   18.1   18.1

Terminals Types

Cable Seals Types
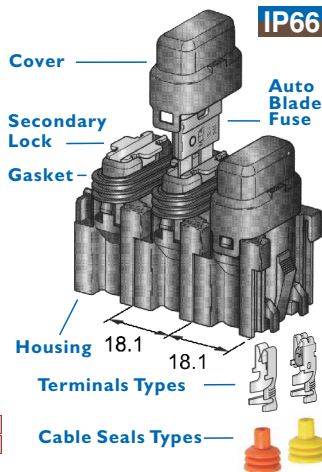
Body: Black PA 66 **Terminal Options:** BK = Bulk pack, RL = *Reel Pack MOQ applies.
Cable Seal: Self lubricating silicone rubber.
Ingress Protection Rating: IP66 (Valid when properly installed with components).
Features: Gangable. Lateral fixing. **Accessories:** Snap lock fixing plate & bracket accessories.
Notes: Secondary lock available in various colours to match fuse colour identification.
Approvals: RoHS

Scan this QR Code for more information

RELATED PRODUCTS:

Auto Fuses
(see p.17)

LED Auto Fuses
(see p.17)

Fixing Plate (Single)
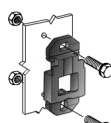
Fixing Plate (Dual)

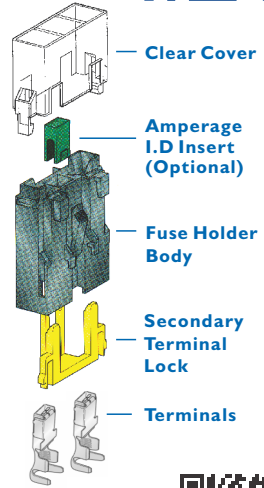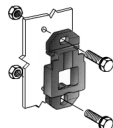6.5mm Dia.
⊕19mm⊕
Fixing Plate (Snap Mount)

Mounting Brackets (M/F)

QR Code: 7004

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MAXI FUSE IN-LINE HOLDERS

Part Number	Fuse Holder Kits Include;	Pack Size	
01001K	00390, 00391, 00430 & 2 x 07650BK	1	NEW
01001K2	00390, 00391, 00430 & 2 x 07660BK	1	NEW
01001K3	00390, 00391, 00430 & 2 x 07670BK	1	NEW

Part Number	Individual Component Ordering	Pack Size
00390	Fuse holder body black PA66 w/lock	1, 10, 100
00391	Clear fuse cover	1, 10, 100
07650BK	Terminal 1.5 to 2.5mm² 20A (RL*)	10, 20, 100
07660BK	Terminal 4 to 6mm² 36A (RL*)	10, 20, 100
07670BK	Terminal 8 to 10mm² 50A (RL*)	10, 20, 100
07671BK	Terminal 16mm² 75A (RL)	10, 20, 100
00392	Fixing plate snap mount	1, 10, 100
00430	Fixing plate single screw, M5	1, 10, 100
00440	Fixing plate dual screw, M5	1, 10, 100

Terminals Options: BK = Bulk Pack, RL = Reel Pack
Accessories: Optional I.D inserts - colour coded with rating embossed.
Features: Gangable, lateral fixing & snap lock fixing plate accessories.
Note: Fuse is not included with this holder.
Approvals: RoHS

Clear Cover

Amperage I.D Insert (Optional)

Fuse Holder Body

Secondary Terminal Lock

Terminals

Scan this QR Code for more information

QR Code: 7005

FUSE HOLDERS

MAXI FUSE IN-LINE HOLDERS SPLASH PROOF

Part Number	Fuse Holder Kits Include;	Pack Size	
01005K	21210, 21000, 21200 & 2 x 07660BK	1	
01005K2	21210, 21000, 21200, 00430 & 2 x 07660BK	1	NEW
01005K3	21210, 21000, 21200, 00430 & 2 x 07670BK	1	NEW

Part Number	Individual Component Ordering	Pack Size
21210	Cover with gasket inserted	1, 10, 100
21000	Fuse holder body black PA66 w/lock	1, 10, 100
21200	Bottom cover black PA 66	1, 10, 100
07650BK	Terminal 1.5 to 2.5mm² 20A (RL*)	10, 20, 100
07660BK	Terminal 4 to 6mm² 36A (RL*)	10, 20, 100
07670BK	Terminal 8 to 10mm² 50A (RL*)	10, 20, 100
07671BK	Terminal 16mm² 75A (RL*)	10, 20, 100
00392	Pressure fixing dual pin	1, 10, 100
00430	Fixing plate single screw, M5	1, 10, 100
00440	Fixing plate dual screw, M5	1, 10, 100
00697	Mounting bracket slide lock male	1, 10, 100
00698	Mounting bracket slide lock female	1, 10, 100

Terminal Options: BK = Bulk Pack, RL = *Reel Pack MOQ applies.
Accessories: Optional I.D inserts - colour coded with rating embossed.
Features: Gangable, lateral fixing & snap lock fixing plate accessories.
Cable Note: Max. cable size is 6mm² when using bottom cover.
Max. cable size is 16mm² when not using bottom cover.
Note: Fuse is not included with this holder.
Approvals: RoHS

Cover & Gasket

Amperage I.D Insert (Optional)

Fuse Holder Body

Secondary Terminal Lock

Bottom Cover

Terminals
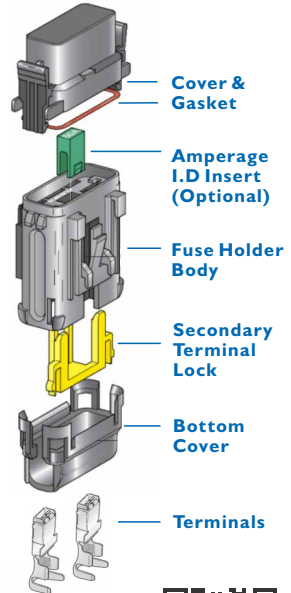
Scan this QR Code for more information
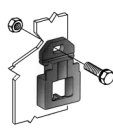
QR Code: 7000

RELATED PRODUCTS

Maxi Fuses (see p.18)

Fixing Plate (Single)

Fixing Plate (Dual)

6.5mm Dia. ⊕—19mm—⊕
Fixing Plate (Snap Mount)

Mounting Brackets (M/F)

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MAXI FUSE IN-LINE HOLDERS

Littelfuse®

| Part Number	Fuse Holder Kits Include;
152001KIT1	Fuse holder kit, includes fuse holder body, cover, 2 x screws, 4 x washers & 2 x terminals (2.5 - 6mm²).
152001KIT2	Fuse holder kit, includes fuse holder body, cover, 2 x screws, 4 x washers & 2 x terminals (5 - 10mm²).

Part Number	Individual Component Ordering
152001	Maxi fuse holder body black
152900	Fuse holder clear cover
913-550	M5 x 8 Screw, split washer and flat washer
913-653	Ring tongue terminal, 2.5 - 6mm² (#12-10AWG)*
913-654	Ring tongue terminal, 5 - 10mm² (#10 - 8AWG)*

Rating: 60A **Voltage:** 32VDC
Terminals: Copper alloy   **Cover:** Translucent thermoplastic
Body: Black thermoplastic (UL 94HB)
Feature: Only 2 fuse blocks may be ganged together with a maximum fuse rating of 50A per block.
Notes: This product will only accept original Littelfuse Maxi blade fuses (299 / 999 series). Fuse is not included.
*It is recommended that cross linked polyethelene (GLX) insulated wire be used. Contact sales for more information.

RELATED PRODUCTS:
Maxi fuse see page 18
LED Maxi fuse see page 18

Fuse Holder Cover
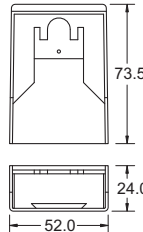
73.5
24.0
52.0
Dimensions in MM

Fuse Holder Body

28.9
22.4
Mounting Hole
67.3
38.4

MAXI FUSE IN-LINE HOLDER SPLASH PROOF

Littelfuse®
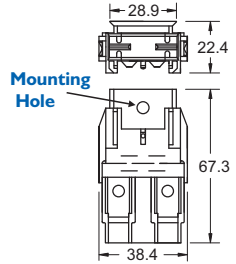
Part Number	Description
MAHC0001	Fuse holder with black cover

IGNITION PROTECTED **IP67**

Rating: 60A **Voltage:** 32VDC
Wire: 2 x 127mm leads of 13mm² #6AWG black.
Ignition Protection: V-2
Ignition Proof: UL-94
Pack Size: 1, 10, 100
Feature: Protective cover permits use in harsh under hood environments. Mounting hole also permits easy bulkhead installation. Permits 2 or more holders to be mounted together.
Approvals: RoHS

85.1
23.8
34.8
170   170
60.2
127mm   6.7 Dia. Mounting Hole   Dimensions in MM

MAXI FUSE IN-LINE HOLDERS SPLASH PROOF

PROLEC
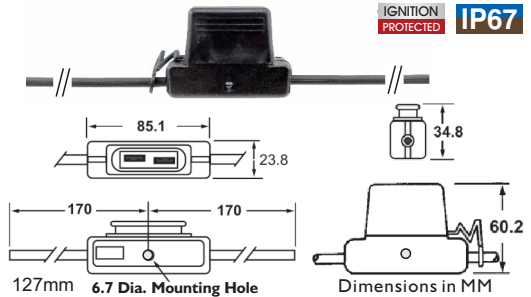
Part Number	Description
MFHC	Fuse holder with black cover
MFHCLR6	Fuse holder with clear cover NEW

IP67

Rating: 60A **Voltage:** 32VDC
Wire: 2 x 150mm leads of 13mm² #6AWG red.
Body Material: PVC
Pack Size: 1, 10, 100
Notes: Protective cover permits use in harsh under hood environments. The clear cover allows LED Maxi fuses to be clearly seen.
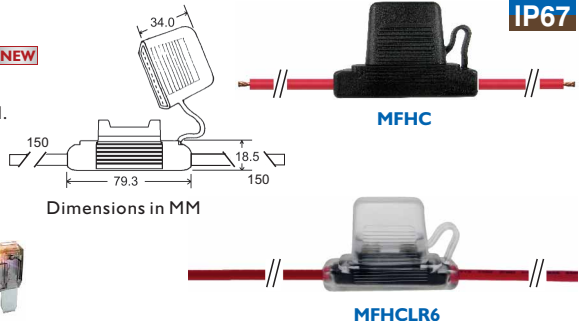
RELATED PRODUCTS:
Maxi fuse see page 18
LED Maxi fuse see page 18

34.0
150
18.5
79.3   150
Dimensions in MM

MFHC

MFHCLR6

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JCASE FUSE IN-LINE HOLDER SPLASHPROOF

Littelfuse®

IP67

- Suit either Low Profile JCASE™ fuses (LJC) or original standard JCASE fuses (JTF).
- They offer size and weight savings compared to MAXI™ fuse holders.
- Include a protective cover for splash resistance.
- Fuse links are compact and incorporate a design advantage over blade fuses. Over time the spring clips that hold blade fuses will weaken. In cartridge fuses, the weaker female part is designed into the disposable fuse so that the grip and electrical connection will never weaken.

Part Number	Description
FHJC1002	Fuse holder with cover

Rating: 60A
Voltage: 58VDC
Wire Thickness: #8AWG
Cable Insulation: GXL, 125°C
Operating Temperature Range: -40°C to +125°C
Max Fuse Insertion Force: 49 Nm
Pack Size: 1, 10, 50, 100, 250
Approvals: RoHS

RELATED PRODUCTS:

Low Profile Jcase
(see page 20)

Jcase
(see page 21)
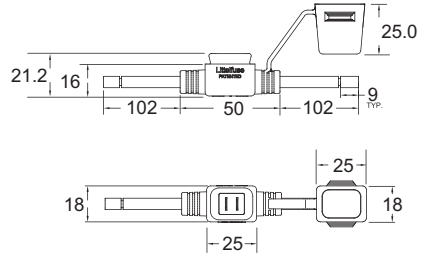
Dimensions in MM

MIDI FUSE IN-LINE HOLDER WITH COVER

Littelfuse®

The inline Midi fuse holder is designed for use with bolt-down Midi fuses. It may be installed directly inline with the cables with no mounting required. The Inline Midi fuse holder can be used with heat shrink tubing for applications requiring more splash resistance. The curved design of the cover aids in prevention of tube-splitting during application.

Part Number	Description
04980921GXM5	Fuse holder includes cover and hardware.

Voltage: 32V
Rating: 200A
Operating Temperature Range: -40°C to +125°C
Max. Wire Size: 20mm^2
M5 Torque Rating: 5Nm
Base/Cover Material: UL 94V-0 glass-filled nylon
Bolts: Zinc plated steel M5 x 0.8
Hardware: Zinc-plated steel nuts with nylock inserts (included).
Pack Size: 1, 10, 100
Notes: Midi fuse is not included.
Approvals: RoHS

Assembled Holder

RELATED PRODUCTS:
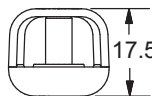
Midi Fuses
(see page 24)

Dimensions in MM

Side View
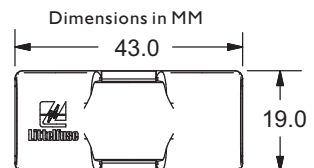
Top View

MIDI FUSE BLOCK

Part Number   **Description**
MIDFBB   Midi Fuse Block with Hinged Cover

Voltage: 32VDC   **Rating:** 125A
Body & Cover: Black PA66.
Accessories: Includes cover & flanged nuts.
Studs: M5 threaded studs. Steel / Zinc plated.
Torque Rating: 4.5 Nm
Features: Inline or surface mounting options.
Pack Size: 1, 10, 100
Notes: Midi fuse is not included.
Approvals: RoHS
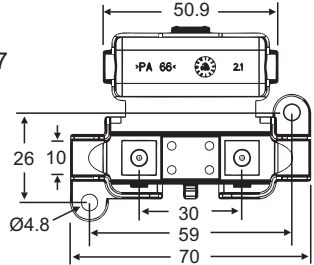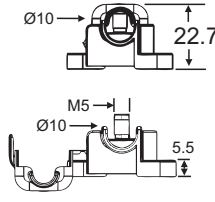
RELATED PRODUCTS:

Midi Fuse
(See page 24)
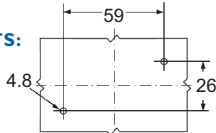
Mounting Diagram

Dimensions in MM

MEGA FUSE IN-LINE HOLDERS

IP20

Part Number   **Fuse Holder Kits Include;**
00380K1   1 x Set fuse holder bodies   **NEW**
            2 x Bolts (Steel M8 x 14) & 2 x nuts
            2 x Terminals, 10 - 20mm², 90A

00380K2   1 x Set fuse holder bodies   **NEW**
            2 x Bolts (Steel M8 x 14) & 2 x nuts
            2 x Terminals, 25 - 35mm², 100A

Voltage: 32V
Body: PA66-GF30 HB
Terminals: Tin plated copper   **Torque Rating:** 11 Nm
Fuse Holder Kit Pack Size: 1, 10, 100
Fixing Plate Pack Size: 1000
Note: Mega fuse & fixing plates not included.

Body
Flanged Nuts
Terminal
Cable
Fuse
Bolts
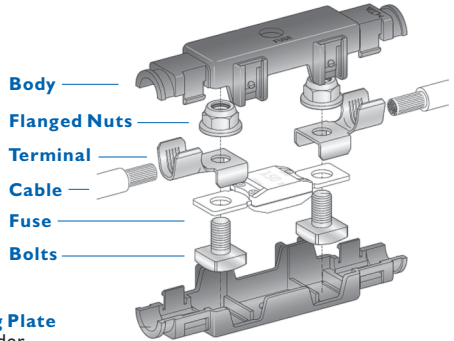
Lateral Fixing Plate
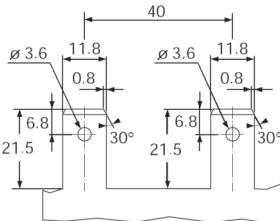
Snap Mount Fixing Plate
Slide locks to holder.
Snaps into to panel hole.
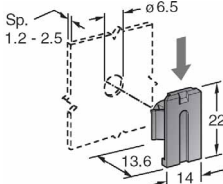
RELATED PRODUCTS:

Mega Fuses
(see page 25)
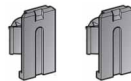
Fixing Plates # 00395
(2pcs required per holder, indent item)
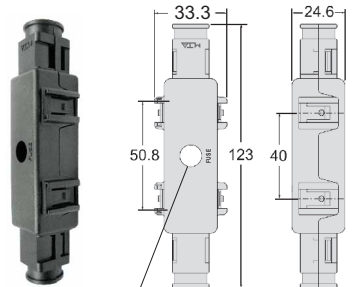
Fuse inspection
window

Dimensions in MM

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FUSE HOLDERS

BLADE FUSE ADD-A-CIRCUIT HOLDERS & KITS

PROLEC

NEW

Create a new fuse protected circuit by tapping into an existing fuse circuit.
Perfect for adding accessories. Simply plug the add a circuit holder into an existing energized fuse-block slot and insert the original fuse into slot (A) to continue protecting the original circuit. Finally insert a new fuse into slot (B) to protect the new accessory circuit powered by the included lead.

Tap Only Bulk Pack Part Number	Tap & Fuse Kit Retail Clam Shell Part Number	Suits Blade Fuse Type
FHC200	FHC200K	Micro2 / ATR
FHL200	FHL200K	Low Pro Mini / LP ATM
FHM200	FHM200K	Mini / ATM
FHA200	FHA200K	Auto / ATC
FHD200	FHD200K	Micro3 / ATL

Rating: 10A max installation rating. **Voltage:** 32V
Wire: 1mm² #16AWG red wire.
Terminal: Hardened brass crimp-type coupler.
Tap Only Bulk Pack: Includes Fuse Tap Only. No Fuses.
Tap & Fuse Kit Packaging: Includes Add-a-circuit & 3 spare fuses.
Ratings included are 5A, 7.5A & 10A.
Important Note: Please ensure the gauge of the cable powering the original fuse is suitable for the additional current draw of the new circuit.
Pack Size: 1, 10, 100, 500, 1000
Approvals: RoHS

FHC200 (Micro2 Blade)

FHL200 (Low Pro Mini Blade)
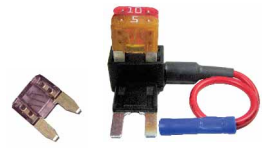
FHM200 (Mini Blade)

FHA200 (Auto Blade)

FUSE HOLDERS

Add-a-Circuit: 2 Terminal Blade Fuse Type.

Butt Splice Connector

→ Blade Terminals

→ Original Fuse (Slot A)
← Accessory Fuse (Slot B)

Accessory Lead

Heat Shrink Tubing (except FHA200)
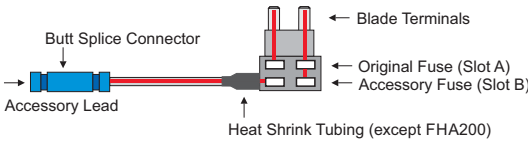
Circuit Diagram # FHC200, FHL200, FHM200, FHA200

Holder Terminals

Original Fuse

Accessory Lead

Accessory Fuse
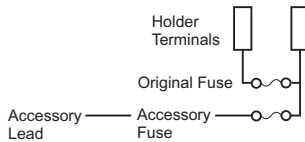
Add-a-Circuit: 3 Terminal Blade Fuse Type.

Butt Splice Connector

→ Blade Terminals

← Original Fuse (Slot A)
← Accessory Fuse (Slot B)

Accessory Lead

Heat Shrink Tubing

Circuit Diagram # FHD200

Holder Terminals

Original Fuses

Accessory Lead

Accessory Fuse

Not Used

Tap & Fuse Kits

FHD200 (Micro3 Blade)
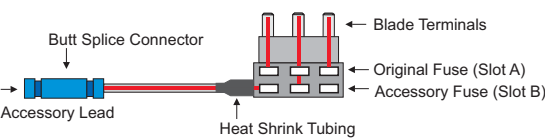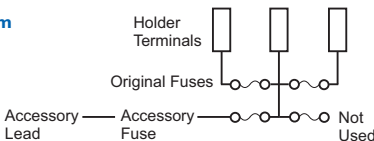
Scan this QR Code for more information

QR Code: 7014

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BLADE FUSE TAP KITS

PROLEC

Taps into existing blade fuse by fitting over the leg for additional non-fused circuit.

Part Number	Kit Includes Instruction Sheet Plus;
MIN-TAPSP	5x Mini blade fuse taps, 5x insulated female terminals.
ATOF-TAPSP	5x Auto blade fuse taps, 5x insulated female terminals.

Fuse Tap   **Insulated Terminal**

Rating: 10A Max.
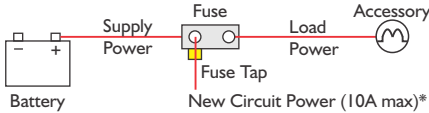**Notes:** Always install an inline fuse holder to protect the accessory. Fuses not included.
Pack Size: 1, 10, 100

Mini Tap Terminals: 2.8mm (1.87")

CIRCUIT DIAGRAM

Supply Power — Fuse — Load Power — Accessory

Battery

Fuse Tap

New Circuit Power (10A max)*

PACKAGING
'SP' Spare Pack
Retail Clamshell

Auto Tap Terminals: 5.8mm (1/4")

3 CIRCUIT BATTERY POWER FEED / GROUND TAPS

E·A·T·N   Bussmann

A quick, easy and reliable method of attaching additional electrical cables to a battery terminal or to ground. They can be stacked to provide multiple taps at one location.
Battery Application: Once mounted on the battery terminal, the tap provides three 6.35mm (1/4") quick connect terminals that can be used to power accessory products.
Grounding Application: Once mounted onto the frame, the tap provides three 6.35mm (1/4") quick connect terminals that can be used to ground accessory products.
Terminals: 3 x 6.35mm (1/4" QC)
Note: Always install an inline fuse holder to protect the accessory.
Pack Size: 1, 10, 100
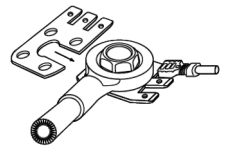
Stacked Battery Taps

Part Number	Suits Battery Terminals
BAT-TAP	Screw Type
BAT-TAP-POST	Post Clamp
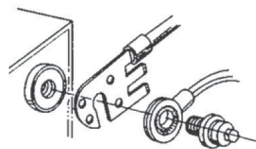
Battery Screw Mounting

4 x #8 Mounting Holes

Frame Ground Mounting

8.4
26.7
9.2
6.35
Q.C. Terminals
35.4
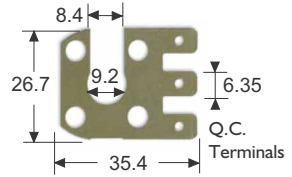
BAT-TAP

Battery Post Mounting

1 x #8 Mounting Hole
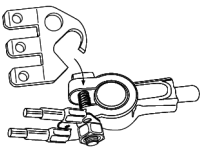
Frame Grounding Mounting

BAT-TAP-POST

RELATED PRODUCTS:

Blade Fuses
(see p13 - 17)

Inline Blade Fuse Holders
(see p.72 - 77)

Disconnect Terminals
(see p.188)

Butt Splice Terminals
(see p.188)

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FUSE SOCKET CONNECTORS

PROLEC

NEW

Fuse Socket Uses:
• Check current draws.
• Check short / open circuits.
• Check voltage.
• Tap power to energize.

Terminal Barrier

1/4" Connector Tab
Fit to Jumper Leads,
Alligator Clips or
Multi-meter Test Leads.

Part Number	Socket Terminal Type
FSC-MINI	Mini Blade Terminals 2.8mm
FSC-AUTO	Auto Blade Terminals 6.35mm

Pack Size: 1, 10, 100
Notes: 30A Max.

CIRCUIT DIAGRAM

Socket Blade Terminal

FSC-MINI   **FSC-AUTO**

FUSED SOCKET CURRENT LOOP KIT - 2pcs

PROLEC

NEW

The Fuse Socket Current Loop provides end user easy testing access when using a current probe to determine the amperage draw through a fused circuit. Maximum testing range is up to 30 Amp. The Perfect tool for installer who needs to monitor circuit amperage limits.

Part Number	Kit Contains Both Units
FSCL-KIT	1pc Mini Blade Socket 2.8mm + Mini Inline Fuse Holder
	1pc Auto Blade Socket 6.35mm + Auto Inline Fuse Holder

Pack Size: 1, 10, 100
Notes: Fuse not included.

CIRCUIT DIAGRAM

Input   Output   Fuse
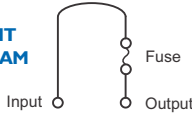
Mini Blade

Auto Blade

FUSE SOCKET SHORT CIRCUIT DIAGNOSTIC KIT - 17pcs

PROLEC

NEW

This circuit diagnostic kit enables professional mechanics to troubleshoot short circuits in a vehicle without the need to constantly replace fuses. Simply plug the correct socket connector into the fuse slot and fit the appropriate circuit breaker, then start troubleshooting. Mechanics will be able to use the manual reset button on the circuit breaker during the troubleshooting process to reset the breaker instead of replacing a new fuse. Each socket connector has an extension cable to save the user having to reach down into difficult locations where the fuse box is located every time a reset is required. Once the short circuit has been fixed, simply remove the connector and reinstall the correct fuse.

| Part Number	Kit Contains
FSCLA-KIT	1 x Mini blade socket connector and mini blade breaker housing.
	1 x Auto blade socket connector and auto blade breaker housing.
	(Each unit is 280mm long with 12AWG red cable).
	7 x Mini blade type III manual reset circuit breakers.
	Ratings include: 5A, 7.5A,10A, 15A, 20A, 25A, 30A
	7 x Auto blade type III manual reset circuit breakers.
	Ratings include: 5A, 7.5A,10A, 15A, 20A, 25A, 30A
	1 x Fuse puller. Extracts mini and auto blade fuses.

Fuse Puller

Mini Blade Circuit Breakers

Auto Blade Circuit Breakers

Mini and Auto Blade Sockets With Cable
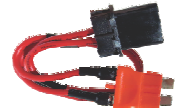
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MICRO2 FUSE BLOCKS LATERAL CONNECTION

EAT•N **Bussmann**

Part Number	No. Poles	Max Amps Per Block
FB4-ATR	4 Pole	30A
FB6-ATR	6 Pole	45A

Voltage: 32V
Circuit Rating: 15A max per circuit
Cover: Clear with o-ring seal
Block: Moisture resistant back plate
IP Rating: IPx4 (Splash proof)
Terminals: Lateral 1/4" QC (6.25mm).
Mounting: Surface mount, M5 screw.
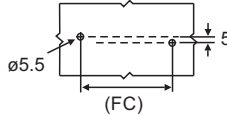**Pack Size:** 1
Options: Also available in 8 & 10 way.
Notes: Fuses not included.

FB4-ATR
83 (L) x 45 (W) x 39 (H)
Fixing Centre (FC): 65mm

Mounting Diagram

ø5.5

5

(FC)

FB6-ATR
103 (L) x 45 (W) x 39 (H)
Fixing Centre (FC): 85mm

NEW
IPX4

1/4" Quick Connects

RELATED PRODUCTS:

Micro2 Fuses
(see p.13)

MINI FUSE BLOCK AXIAL CONNECTION

MTA

Features:
• Up to 7 x Mini fuse protected circuits & space to store 3 x spare fuses.
• Compact design for mounting in tight spaces using cable ties.
• Kit includes plenty of terminals in 3 different sizes to suit a wide range of cable sizes.
• Hinged cover protects fuses from the elements. Inside legend identifies the circuits.

Part Number	Kit Description
01435K	Mini Fuse Block Kit Includes;
	1 x 01430 (7 way frame)
	7 x 01420 (Mini fuse modules)
	16 x 08330BK (Bulk terminals 0.35 - 0.75mm² 9A)
	16 x 08331BK (Bulk terminals 1 - 2 mm² 16A)
	16 x 08332BK (Bulk terminals 2.5 to 4mm² 28A)

Voltage: 32V
Body: Black rubber (PA 66 GF30)
Terminals: Tin plated copper
Terminal Options: BK = Bulk Pack.
Pack Size: 1, 400
Notes: Cable ties not supplied. Fuses not included.
Approvals: RoHS

Use cable ties through side slots to secure fuse holder to vehicle.

Storage for 3 spare fuses.

Fuse Housing

16.5

22 25

6

11.4

Fuse Frame

36 45.5

Dimensions in MM

84

30

35
55.6
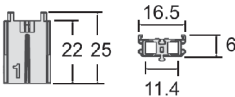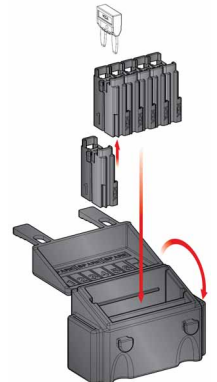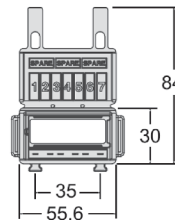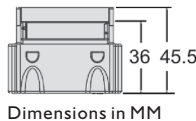
RELATED PRODUCTS:

Mini Fuses
(see p.15)

Female Terminal

2.8 x 0.8mm

20

EAT•N **Bussmann**
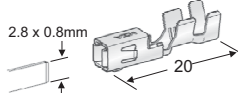
This panel is designed for use with Auto fuses &/or Auto Bladed Circuit Breakers. It can be ordered with a minimum of 4 positions up to a maximum of 20 positions (in multiples of 2). You can also order the panel with a Ground Terminal Pad (GTP) fitted. The GTP features 12 x 1/4" (6.35mm) Q.C. terminals with a common wiring stud.

Short Base GTP not Fitted Part Number	Long Base GTP is Fitted Part Number	Number of Positions
15600-04-20	15600-04-21	4
15600-06-20	15600-06-21	6
15600-08-20	15600-08-21	8
15600-10-20	15600-10-21	10
15600-12-20	15600-12-21	12
15600-14-20	15600-14-21	14
15600-16-20	15600-16-21	16
15600-18-20	15600-18-21	18
15600-20-20	15600-20-21	20

Short Base Without GTP

1/4" Output Terminals ➝

Input Stud #10-32 Common Feed
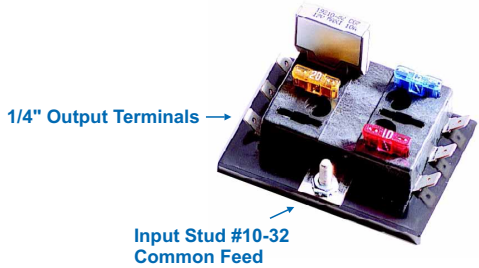
Voltage: 32V
Input Terminal Rating: 100A max total.
Output Terminal Rating: 30A max. per circuit
Positions: 4 to 20 circuits available
Materials: Black thermoplastic
Input Stud: #10-32 threaded stud.
Hardware: Nut and lockwasher supplied on input terminal.
Output Terminals: 6.35mm x 0.8mm Q.C. terminals.
Wire Size: #4-6 AWG (Input), #12-16 AWG (Output).
Feature: Recessed area in centre of block for identification label.
Pack Size: Stock lines 1pc. Indent items 35pcs.
Notes: *When ordering with a GTP fitted, please add 33mm to dimension 'L' for actual overall length.) Plug-in components such as fuses and breakers not included.
Dual Supply Option: RTA fuse panels can also be ordered with 2 power input studs (dual power feed). Choose from 4-16 fuse/breaker positions for each input stud (20 positions total per panel). Please contact sales for further information.

Long Base With GTP

Recessed Label Area

GTP as Shown Fitted
12 x 1/4" Quick Connects
W/Common #10-32 Wiring Stud

FUSE HOLDERS

Retail Pack Option
15600-06-20SP

Total Nbr Positions	Dimensions in MM C	L*
4	-	46.8
6	15.8	62.8
8	31.8	78.5
10	47.5	95.3
12	63.6	110.3
14	79.3	126.3
16	95.6	142.1
18	111.1	158.1
20	127.1	173.9

Single Stud, Single Supply Circuit

5.6 DIA.
L*
C
85.6
26.9
63.5
15.8
6.35 Q.C.
GTP fitted*
15.8
20.3
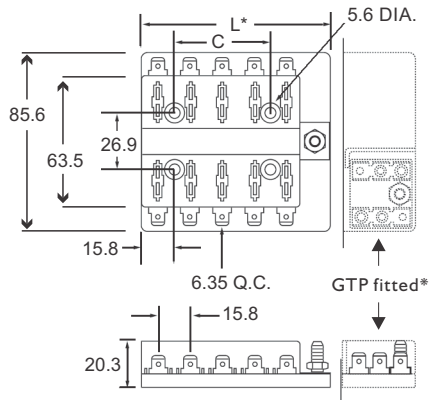
RELATED PRODUCTS:

Auto Fuses
(see p.17)

LED Auto Fuses
(see p.17)

Auto Bladed Breakers
(see p.49 - 51)

PROLEC

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AUTO FUSE BLOCKS LATERAL CONNECTION

Features:
- Clear plastic cover for fast visual confirmation of fuse amp rating.
- Easy identification of blown fuses when LED indicating Auto fuses are installed.
- Gasket included with cover.

Part Number	No. Poles	Max Amps Per Block
00610K	4 Pole	80A
00600K	6 Pole	100A
00590K	8 Pole	135A

Voltage: 32V
Input Terminal Rating: 20A max. per circuit.
Body: Black PA66 GF30
Cover: Transparent cover with gasket. Material PA12.
Terminals: Lateral connections, 6.35mm (1/4") QC terminals.
Kit Contents: Fuse cover, base & QC terminals.
Mounting: M5 screw
Pack Size: 1, 10, 100, 500
Notes: Each fuse branch is independently powered.
Fuses are not included.
Approvals: RoHS

IPX4

Clear Cover ———
Gasket in Cover ———

00610K

Lateral Connection
1/4" Quick Connects

Mounting Diagram - 00610K

ø5.5
65
5

4 Way Lateral Kit

56
37
45
65
80
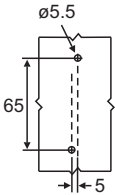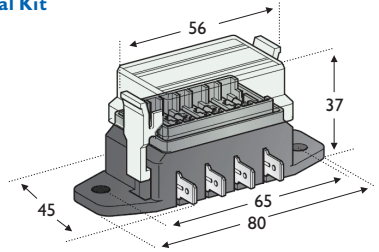
Mounting Diagram - 00600K
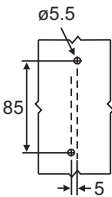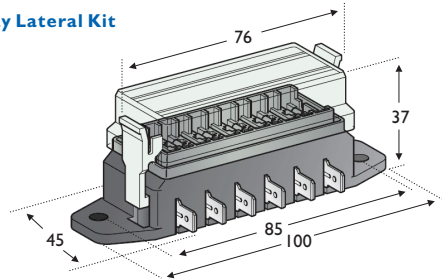
ø5.5
85
5

6 Way Lateral Kit

76
37
45
85
100

Mounting Diagram - 00590K
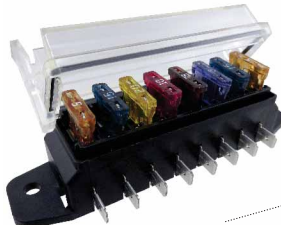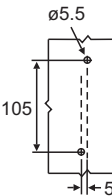
ø5.5
105
5

8 Way Lateral Kit

96
37
45
105
120

Dimensions in MM

RELATED PRODUCTS: Auto & LED Auto Fuses (see p.17)

FUSE HOLDERS
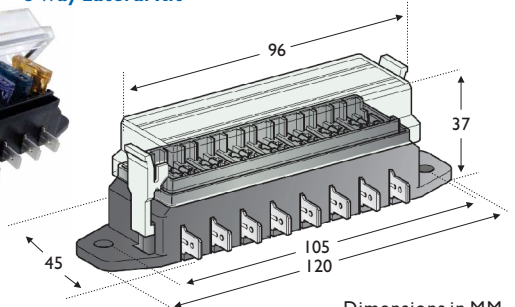
AUTO FUSE BLOCKS AXIAL CONNECTION

MTA

Features:
• Clear plastic cover for fast visual confirmation of fuse amp rating.
• Easy identification which amperage Auto fuses are installed.
• Easy identification of blown fuses when LED indicating Auto fuses are installed.

Part Number	No. Poles	Max Amps Per Block	Included Terminals
00540K	4 Pole	80A	8 x 07501
00560K	6 Pole	100A	12 x 07501
00580K*	8 Pole	135A	16 x 07501

Voltage: 32V
Input Terminal Rating: 20A max. per circuit.
Body: Black PA66 GF30
Cover: Transparent cover. *00580K cover features a gasket.
Terminals: 6.35mm (1/4") Quick Connect terminals. # 07501BK.
Kit Contents: Fuse cover, base & QC terminals.
Mounting: M5 screw (00540K & 00560K), M5 threaded insert (00580K).
Pack Size: 1, 10, 100, 500
Options: Blocks and terminals can be ordered separately, minimums apply.
Notes: Each fuse branch is independently powered. Fuses are not included.
Approvals: RoHS

Clear Cover

00540K

**Axial Connection
1/4"Quick Connects
Included & Installed.**

FUSE HOLDERS

Mounting Diagram - 00540K

ø5.5

53.2

4 Way Axial Kit

40
58
53.2
66
26
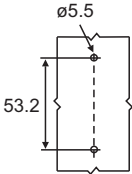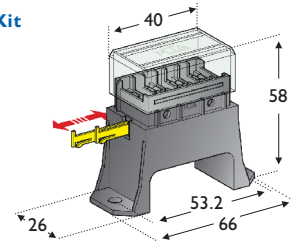
Mounting Diagram - 00560K

ø5.5

73.2

6 Way Axial Kit

60
59
73.2
85
27
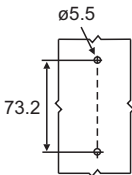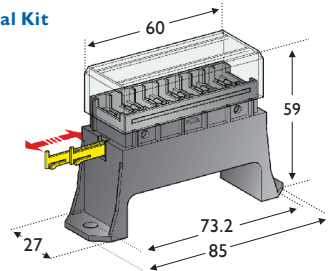
**Mounting Diagram - 00580K
With Panel Cut Out**

28
103   89
ø5.5   5
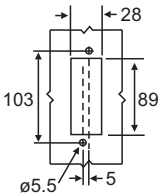
Gasket

**Threaded
Insert (M5)**

8 Way Axial Kit

80
43
34
9
88   115
33

Dimensions in MM

**RELATED
PRODUCTS:** **Auto & LED Auto Fuses** (see p.17)

PROLEC

AUTO FUSE 6 & 12 WAY PANELS LED INDICATING

PROLEC

Features:
- 2 combined preassembled models available.
- Features blown fuse LED indication.
- 2 slots to store spare auto fuses.
- Includes a 65 piece sticker set to identify each circuit.
- All fuse and ground terminal panels include a clear cover.

Part Number	Description
MFP6SCGTP	6 Way auto fuse panel with cover & GTP.
MFP12SCGTP	12 Way auto fuse panel with cover & GTP.

Voltage: 32V
Maximum Total Block Rating: 100A
Maximum Terminal Rating: 30A
Input Stud & Ground Stud: M5 (3/16")
Output Screw Terminals: M4 (5/32")
Ground Screw Terminals: M4 (5/32")
Base Colour: Black **Cover:** Clear
Operating Temperature: -20°C to +60°C
Screws & Lock Washers: Included.

65pc Sticker Assortment Set

6 Way Fuse Panel With GTP and Clear Fuse / GTP Covers

85mm
Height with cover 42mm
170mm
85mm
Height with cover 42mm
100mm
85mm
Height with cover 42mm

6 Way Fuse Panel With GTP

12 Way Fuse Panel with GTP

Clear cover supplied. Covers fuses and G.T.P.

WATER PUMP

Recessed area for stickers. (65pcs included)

DC SUB PANEL

ACCESSORY
AUTO PILOT
BATTERY CHARGER
BOW LIGHT
COMPASS LIGHT
CHART PLOTTER

M5 Stud Negative Distribution

M4 Screw terminals

2 x Spare fuse positions

6 x Fuse positions

Screw connect terminals

RELATED PRODUCTS:

Auto Fuses
(see p.17)

Protective clear cover included.

Positive Distribution Common feed M5 input stud

LED indication of blown fuses

PROLEC

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

AUTO FUSE 6 & 12 WAY PANELS

Littelfuse
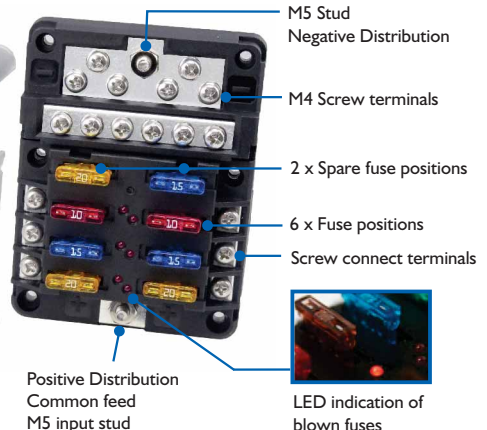
NEW

Features:
- Suits auto fuse or auto bladed circuit breakers.
- Dual power studded inputs & single ground stud.
- Multiple earth returns.
- Lockable transparent cover with label recesses.
- Storage for two spare fuses.
- 84pc sticker label set included.

Part Number	Description
880027	6 Way Fuse / Breaker Block
880028	12 Way Fuse / Breaker Block

Voltage: 32VDC
Continuous Rating: 100A Total Max.
Rating Per Circuit: 30A Max.
Power Input Studs: Dual Input Studs.
Negative Input Stud: Single #10-32.
Ground Terminals: #10-32 Screws.
Output Terminals: #10-32 Screws.
Mounting: Bolt-Down; 4 x M5 included.
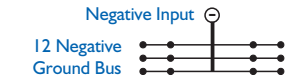**Base:** Black Polycarbonate.
Cover: Clear PBT.
Notes: Fuses are not included.
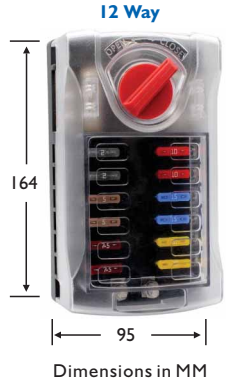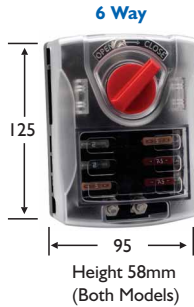
6 Way

125

95

Height 58mm
(Both Models)

12 Way

164

95

Dimensions in MM

Electrical Diagram

Negative Input

6 Negative
Ground Bus

6 Fused
Power Outputs

Twin Power Input

Electrical Diagram

Negative Input

12 Negative
Ground Bus

12 Fused
Power Outputs

Twin Power Inputs
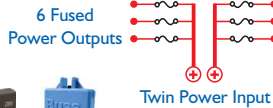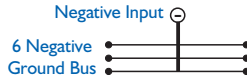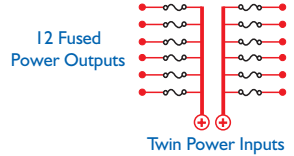
RELATED PRODUCTS:

Auto Fuse
(see p.17)

LED Auto Fuse
(see p.17)

Bladed Circuit Breakers
(see p.49 - 50)

FUSE HOLDERS

AUTO FUSE 12 WAY PANEL

Littelfuse

Features:
- Suits auto fuses.
- Single power studded input & single ground stud.
- Transparent cover stores two spare fuses.
- 84pc sticker label set included.

Part Number	Description
880066	12 Way Auto Fuse Block

Voltage: 32VDC
Cumulative Rating: 100A total.
Rating per Circuit: 30A.
Single Input & Ground Studs: #10-32.
12 x Output & 12 x Ground Terminals: #8-32 screws.
Internal Buss & Fuse Clips: Tin plated copper.
Base: Black reinforced polycarbonate.
Cover: Clear polycarbonate.
Hardware: Stainless steel nuts, screws & captive star lock washers.
Notes: Fuses are not included.
Approvals: Cover satisfies ABYC/USCG insulation requirements.

Negative Input (-)

Push Button Latch

2 x Spare
Fuse Positions

L: 165mm
W: 85mm
H: 39mm

Positive Input (+)

AUTO FUSE / BREAKER REAR TERMINAL BLOCKS

EAT•N Bussmann

Features:
- Capacity of 8 to 32 output circuits (for auto fuses or auto bladed circuit breakers).
- 1, 2, 3 or 4 bussed power input studs. Each powering 4 or more fuse circuits.
- Splash resistant cover included. Shallow for fuses. Tall auto bladed circuit breakers.
- Fuse / Circuit breaker block is also available in custom configurations.

Inc Fuse Cover Part Number	Inc Breaker Cover Part Number	Number of Poles	Buss Type	Set Up
15711-12-21A	15711-12-22A	12 Pole	Single Bus	12
15712-08-04-21A	15712-08-04-22A	12 Pole	Dual Bus	8 + 4
15712-10-06-21A	15712-10-06-22A	16 Pole	Dual Bus	10 + 6
15712-14-06-21A	15712-14-06-22A	20 Pole	Dual Bus	14 + 6
15712-12-08-21A	15712-12-08-22A	20 Pole	Dual Bus	12 + 8
15712-12-12-21A	15712-12-12-22A	24 Pole	Dual Bus	12 + 12
15713-16-08-11A	15713-16-08-22A	16 Pole	Triple Bus	8 + 4 + 4
15713-20-12-21A	15713-20-12-22A	20 Pole	Triple Bus	12 + 4 + 4
15714-20-06-21A	15714-20-06-22A	20 Pole	Quad Bus	6 + 4 + 4 + 6

Part Number	Description
12020321	Female Terminal Brass #16-14 (1.0-2.0mm^2)
12020400	Female Terminal Brass #12-10 (3.0-5.0mm^2)
15710-TP	Secondary lock secures 8 output terminal positions
PROBRK007K	Bracket kit, stainless steel, inc. screws & washers
12094430	Output terminal removal tool (page 186)
06285847	Terminal crimping tool (page 186)

NEW

Bracket Kit

Terminals
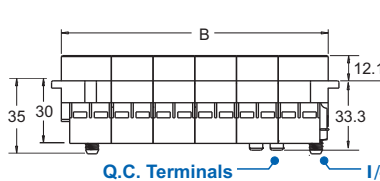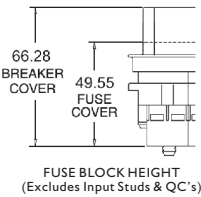
Voltage: 32V **Input Rating:** 200A max total input for unit.
Fuse / Circuit Breaker Capacity: 8, 12, 16, 20, 24, 28 & 32 positions.
Panel Mounting: Threaded inserts #10-32 (4 places).
Panel Mounting SS Hardware: Screw #MT103212PPHS. Washer # SW316S.
Surface Mounting: Bracket kit required. **Base Materials:** Black thermoplastic.
Input Supply Options: Single, dual and triple bus options.
Input Wire Sizes: #6 - 4 AWG / 13 - 19mm^2
Input Terminals: 1/4"-20 stud for top & bottom bus. 4x 1/4" Q/C terminals supply power to middle bus (which always powers only 4 positions). 30A max for each Q/C terminal.
Output Terminals: Delphi Pack-Con Series 3 female unsealed tang terminals.
30A max load per circuit. Output terminals not included.
Output Wire Sizes: #16 - 10 AWG / 1.0 - 5.0mm^2
Secondary locks: Secure output terminals. Each lock secures 8 positions.
(Please order multiple locks to cover length of selected terminal block).
Pack Size: Stock lines 1pc. Customised indent items 24pcs.
Notes: Fuses & breakers not included. Terminals must be ordered separately as above.
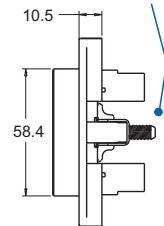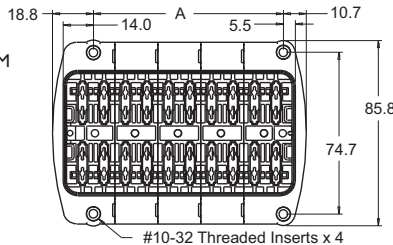
NEW

Secondary Lock TPA

**Rear Panel Mounted
20 Way Auto Fuse Block
Without Lid**

66.28 BREAKER COVER
49.55 FUSE COVER

FUSE BLOCK HEIGHT
(Excludes Input Studs & QC's)

B
12.1
35 30
33.3

Q.C. Terminals

**1/4"-20 Stud Input
Feeds Bussed Terminals**

10.5
58.4

**Scan the
QR Code
for more
information**

Number Poles	Dimensions in MM A	B
8	28.0	47.5
12	48.0	67.0
16	67.8	87.0
20	87.5	107.0
24	107.0	126.5
28	127.0	146.5
32	147.0	166.5

18.8
14.0
A
5.5
10.7
85.8
74.7

#10-32 Threaded Inserts x 4

QR Code: 7015

PROLEC

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

AUTO FUSE BLOCK SEALED - 10 WAY

Littelfuse®

The Littelfuse HWA20 is a non-bussed, sealed IP67, fuse block constructed from durable polyamide. All input and output connections are electrically isolated, enabling the user to customize the circuitry. Capable of installing 10 x Auto fuses with a maximum combined amperage of up to 210A. Dovetail slots on the sides of the block enable multiple units to be connected side by side to each other or with other Littelfuse fuse blocks and power distribution units.

NEW

IP67

Part Number	Kit Contents;
PDMKIT611	Base, Cover, Seal, Terminal Secondary Lock (TPA)
	20 x Terminals (927835-1), 20 x Seals (963245-1)
	4 x Cavity Plugs (100132-1)

Part Number	Individual Component Ordering
PDM61001ZXM	Module with Cover & Terminal Secondary Locks
927836-1	Terminal Female (#20 - #16 AWG), 0.5 - 1.0mm^2
927835-1	Terminal Female (#15 - #13 AWG), 1.5 - 2.5mm^2
928966-1	Terminal Female (#12 - #11 AWG), 3.0 - 4.0mm^2
1241962-1	Terminal Female (#12 - #10 AWG), 3.0 - 5.0mm^2
963243-1	Cable Seal Silicone Blue, 1.4 - 2.1mm Cable Dia.
963244-1	Cable Seal Silicone White, 2.2 - 3.0mm Cable Dia.
963245-1	Cable Seal Silicone Yellow, 3.4 - 3.7mm Cable Dia.
967011-1	Cable Seal Silicone Green, 3.6 - 4.3mm Cable Dia.
100132-1	Cavity Plug Silicone Black, 8.1mm Cavity inside Dia.

Voltage: 80VDC
Maximum Total Current: 210A
Max Single Fuse Rating: 40A
Temperature Rating: -40°C to +85°C.
Body & Cover: Black Thermoplastic 94V-0.
Cover Gasket: Green silicone.
Wire Size: 0.5 to 5mm^2 (#20 to #10 AWG).
Terminals: TE AMP Standard Power Timer, Tin Plated.
Terminal Secondary Locks (TPA's): Included with module.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals. Silicone material.
Ingress Protection Rating: IP67 when cover, cable seals & cavity plugs are installed. Cavity plugs must be fitted to any of the unused 20 terminal holes.
Mounting: Surface mount using 4 fixing holes (M6). Mounting Torque: 4 to 6 Nm.
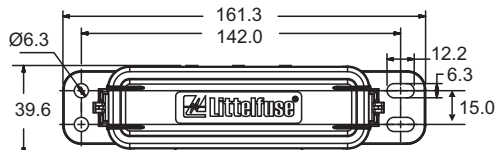**Suit Fuse:** Auto fuses (1A-40A). Not suitable for circuit breakers.
Notes: Fuses, terminals, cable seals or cavity plugs are not included.
Pack Size: 1

PDMKIT611

40.6

11.0

Ø6.3

161.3
142.0

12.2
6.3
15.0

39.6

Littelfuse

Dovetail Slots

Dimensions in MM

RELATED PRODUCTS:

32V Auto Fuse
32V LED Auto Fuse
58V Auto Fuse
80V Auto Fuse
(see p16-17)

FLEX-MIDI
(see p.98)

MEGA-FLEX
(see p.99)

HWB60-AL
(see p.123)

FLEC
(see p.145)

EPC
(see p.146)

💡 **Did you know?** The dovetail features allow you to interlock other multiple Littelfuse Low and High Power products together. These include; FLEX-MIDI, MEGA-FLEX, HWB60-AL, FLEC & EPC.

PROLEC

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

MIDI FUSE BLOCKS GANGABLE 58V

Littelfuse®

Part Number	Description
04980900	Midi Fuse Block with M3 In-Board Mounting
04980903	Midi Fuse Block with M6 Mounting Tabs **NEW**

Voltage: 58VDC
Rating Continuous: 150A **Rating Max**: 200A
Body: Black glass filled thermoplastic.
Cover: Included. Black glass filled thermoplastic.
Hardware: Includes hex nuts & lock washers.
Studs: M5 threaded studs.
Features: Gangable
Pack Size: 1, 10, 100
Notes: The holders feature a stackable side design to allow multiple holders to be joined together. Fuse is not included.
Approvals: RoHS

04980900

Gang Mount Setup

← **Slide Locks**

15.2
15.2
17.9
41.0
15.2

M3 Mounting Holes
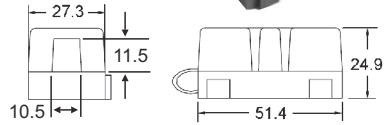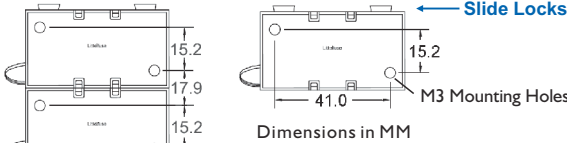
Dimensions in MM

04980903

27.3
11.5
10.5

66.0
7.2
8.9
9.5
6.35
84.0
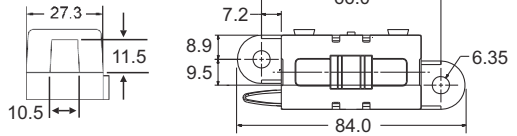
RELATED PRODUCTS:

32V Midi Fuse
(see p.24)

58V Midi Fuse
(see p.24)

MIDI FUSE BLOCK GANGABLE 65V

adler
NEW

The BHR series fuse holder is specially designed for use with DC fuse in automotive equipment and road vehicles. It works with both 32V and 58V Midi fuses. The holder is built with special automotive grade materials to withstand high fault currents and temperatures.

Part Number
BHR030-15-M5

Voltage: 65VDC
Rating: 125A
Body: Black PA+GF VO
Cover: Black PA+GF VO
Operating Temperature: -40 to +125°C
Hardware: Includes hex nuts & lock washers.
Studs: M5 threaded stainless steel.
Features: Gangable. Cover with window feature.
Pack Size: 1, 10, 100
Notes: The holders feature a stackable side design to allow multiple holders to be joined together. Fuse is not included.
Approvals: RoHS

Fuse window

Side locks

10.5
11.5
28.2
30.5
9.8
53
25.8

Dimensions in MM

RELATED PRODUCTS:

32V Midi Fuse
(see p.24)

58V Midi Fuse
(see p.24)

PROLEC

MIDI FUSE MULTI-POLE FUSE BLOCKS
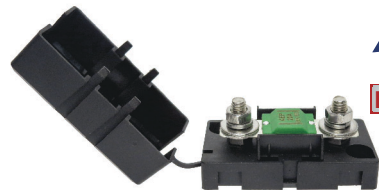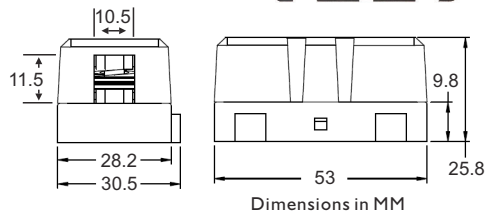
Bussmann now offers a heavy duty fuse panel called the LMI "Little Block". The LMI is used for main branch primary fusing and can be configured to fit up to 6 industry standard Midi fuses all bussed to a single input stud. The LMI provides efficient power distribution suitable for many "under the hood" applications such as; Marine, Construction, Agriculture, Heavy Trucking, Bus and Specialty Vehicles.

Part Number	Description
LMI 1-E-1-0	Midi Fuse Block (2 x 10-32 studs)
LMI 1-E-1-1	Input Module (1 x 5/16"-18 stud)
B109-7091-2	Busbar 2 holes - (spans 2 modules)
B109-7091-3	Busbar 3 holes - (spans 3 modules)
B109-7091-4	Busbar 4 holes - (spans 4 modules)
B109-7091-5	Busbar 5 holes - (spans 5 modules)
B109-7091-6	Busbar 6 holes - (spans 6 modules)
B109-7091-7	Busbar 7 holes - (spans 7 modules)

Input Module
LMI1-E-1-1

Midi Fuse Block
LMI1-E-1-0

Ordering: Maximum of 7 blocks / modules per assembly (6 fuse blocks & 1 input module). One Midi fuse block is required for each Midi fuse. Input modules and bus bars can be ordered as required. The input module should be located in the center of the assembly for bus bar efficiencies.
Ratings: Midi Fuse Block 200A. Maximum total combined rating is 400A continuous. Based on numerous variations possible between numbers of poles used, fuses selected, input wiring, and output wiring, all applications should be tested by installer to verify the product meets their requirements.
Temperature: -40°C to 85°C.
Housing: HTN black UL-rated 94V0 thermoplastic material.
Cover: Red Santoprene cover for protection from accidental shorts.
Studs (Midi Fuse Block): # 10-32 Stainless Steel & Keps Nuts.
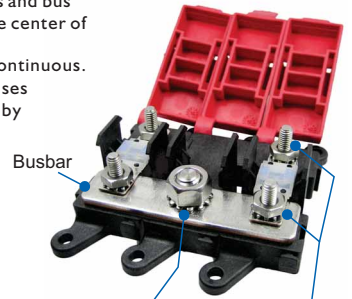**Stud (Input Module):** 5/16"-18 Stainless Steel & Keps Nut.
Accessories: Includes cover & keps nut(s).
Pack Size: 1, 10, 100
Options: Pre-assembled with specified Midi fuses for OE requirements.
Notes: The modules feature a stackable side design to allow multiple modules to be joined together. Fuses & bus bars are not included with blocks.
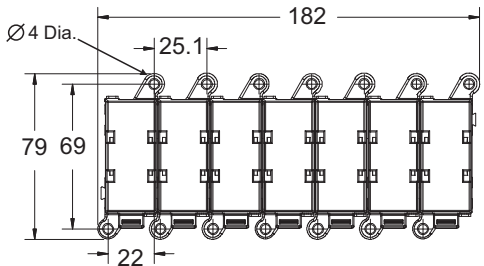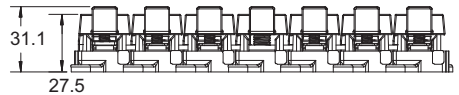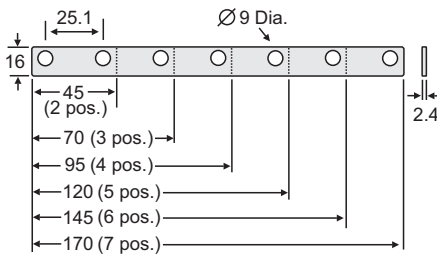**Approvals:** RoHS

Busbar

5-16"-18 Stud
Input Module

10-32 Studs
Fuse Block

FUSE HOLDERS

Sample Configuration:
2 x Midi Fuse Blocks
1 x Input Module
1 x Busbar (3 holes)

Busbar Accessory
B109-7091-X

25.1   Ø 9 Dia.

16

45
(2 pos.)

2.4

70 (3 pos.)
95 (4 pos.)
120 (5 pos.)
145 (6 pos.)
170 (7 pos.)

31.1
27.5

Ø 4 Dia.   25.1   182

79 69

22

RELATED PRODUCTS:
Midi fuses see page 24.

Dimensions in MM

PROLEC

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

MIDI & MEGA MULTI-POLE COMBINATION FUSE BLOCKS

NEW

Part Number	Description
0101499	Midi Fuse Block M5 Studs with Hinged Cover
0101224	Midi Single Input Stud M5 with Hinged Cover
0101498	Mega Fuse Block M8 Studs with Hinged Cover
0101223	Mega Single Input Stud M8 with Hinged Cover
0301509	Busbar 2 x Midi Fuse Positions
0301508	Busbar 3 x Midi Fuse Positions
0301227	Busbar 5 x Midi Fuse Positions
0301252	Busbar 1 x Midi Position & 1 x Mega Position
0301511	Busbar 1 x Midi Position & 2 x Mega Positions
0301512	Busbar 2 x Midi Positions & 2 x Mega Positions
0301250	Busbar 3 x Midi Positions & 1 x Mega Position
0301249	Busbar 4 x Midi Positions & 1 x Mega Position
0301226	Busbar 4 x Midi Positions & 3 x Mega Position

Midi Fuse Block

Mega Fuse Block

Base: Black PBT-GF20 **Cover:** Black PP-TD20 HEAT-ST Cu-ST.
Hardware Midi Fuse & Midi Input Block: Steel - Zn Ni.(M5).
Hardware Mega Fuse & Mega Input Block: Steel - Zn Ni.(M8).
Fuse Block / Single Input Block: Includes cover & hex nut(s).
Crimp Tool: Suit Tubular terminals refer page 184.
Notes: Rear plastic panel must be cut out if not fitting a busbar.
Single stud power input blocks are also gangable to fuse blocks.

Features
• Fuse Block & Single Input Block
• Midi or Mega Fuse Versions
• Hinged Cover
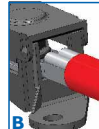• Gangable Multi & Combination
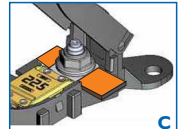• Busbar Accessories
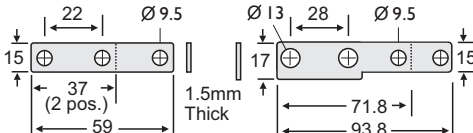
**Midi Busbar
Multiple Positions**

**Mega & Midi Busbar
Multiple Combinations**
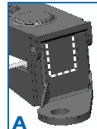
A Removable Wall.

B Input Cable.

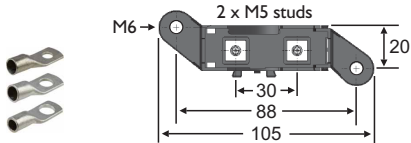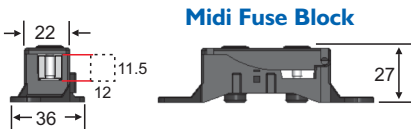**C** Busbar Accessory No Cut-out Required.

**Combination Ganged Fuse Blocks.
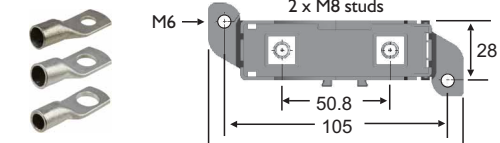Midi Block + Mega Block.**

**Ganged Fuse Blocks
Independent Power.**

**Ganged Fuse Blocks with
Common Busbar Power.**

Midi Fuse Block

Mega Fuse Block

2 x M5 studs

2 x M8 studs

**Midi M5
Tubular Terminals**
(contact sales).
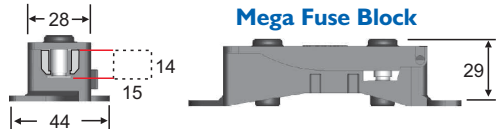
**Mega M8
Tubular Terminals**
(see p188).

Dimensions in MM

Dimensions in MM

PROLEC

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

FUSE HOLDERS

MEGA FUSE BLOCK SEALED & IGNITION PROOF

Littelfuse®

These high amperage fuse blocks feature sealed positive latching technology to form a water resistant and ignition protected assembly. The cover is retained to the base with a built in tether to ensure there are no missing components during servicing. The base features thru-hole provisions to ensure that the unit is mounted securely to the application.

Features
- Provides high amperage, in-line, main or branch circuit protection in harsh or hazardous environments.
- Waterproof / sealed fuse compartment provides protection from fuse corrosion.
- Ignition protected to SAE J1171 and ISO 8846 for installation in a battery box or on vehicles carrying hazardous loads.
- All stainless steel hardware and tin-plated 100% pure copper optimize long-term corrosion protection.
- Allows dielectric spray on cable terminals without compromising fuse connections.
- Cover retention ensured through integrated tether.
- AssureLatch™ technology for worry-free positive latching.

Assure Latch™

Part Number	Description
880014	Mega Fuse Block & Cover Sealed

Voltage: 60VDC
Rating: 500A
Input Studs: M8 stainless steel.
Ignition Protected: SAE J1171 and ISO 8846
Ingress Protection: IP66 / IP6K9K
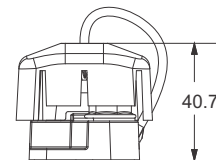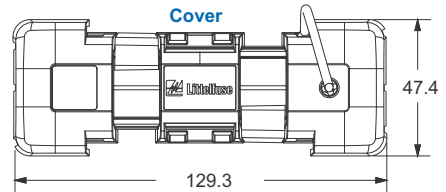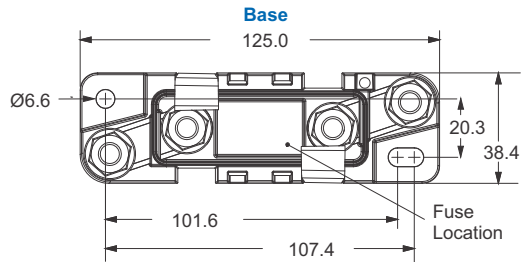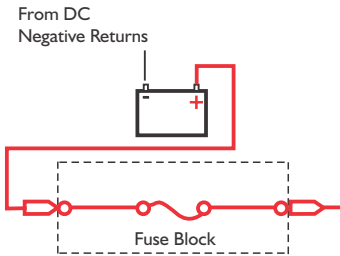**Operating Temperature:** -50°C to +85°C
Shock: 50 G's
Vibration: 8 G's
Fuse Block: Includes cover, stainless steel screws & hex nuts.
Pack Size: 1, 10
Notes: Fuses not included.

From DC
Negative Returns

Fuse Block

FUSE HOLDERS

Base

125.0

Ø6.6

20.3
38.4

101.6
107.4

Fuse Location

Cover

Littelfuse

47.4

129.3

RELATED PRODUCTS:

32V Mega Fuse
(see p.25)

70V Mega Fuse
(see p.25)

Mega Fuse Kit
(see p.41)

40.7

Dimensions in MM

PROLEC

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

MIDI MULTI-POLE POLE FUSE BLOCK 58V

Littelfuse®

NEW

The MIDI-Flex fuse holder is used with the MIDI style bolt-down fuse, which is available up to 200 A. This holder offers a flexible cover, which allows cable entry from virtually any direction, large wire size, and ring terminal stack up. Slots on the base allow holder to be mounted with tie wraps. Dovetail features allow you to interlock multiple MIDI-Flex fuse holders together for a high power distribution block. Bus bars are available for multiple holder applications.

Midi-Flex Fuse Block

Features
• Flexible cover allows for cable entry from virtually any direction allowing for easier installation.
• Dovetail features allow you to interlock multiple Flex holders together to create a high power distribution block. Combine with the MEGA-Flex fuse holder for a high and low amperage solution.
• Slots are moulded into the base that allow the holder to be securely mounted with tie-wraps.
• Zinc plated steel hardware and tin-plated 100% pure copper optimize long-term corrosion protection.

Part Number	Description
04981038	Fuse Block with M5 Studs & Cover
882-267-002	Bus Bar (2 holes - spans 2 blocks)
882-267-003	Bus Bar (3 holes - spans 3 blocks)
882-267-004	Bus Bar (4 holes - spans 4 blocks)
882-267-005	Bus Bar (5 holes - spans 5 blocks)

Voltage: 58VDC
Rating: 200A
Accessories: Includes cover, hex nuts & lock washers.
Studs: M5 threaded zinc plated steel studs.
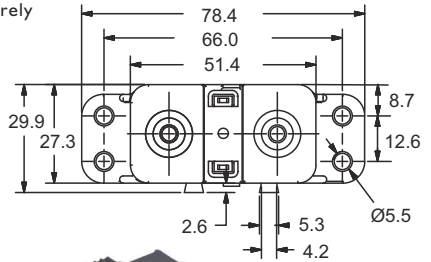**Flammability:** UL94 V-0
Wire Size: 8mm² to 35mm²
Operating Temperature: -40°C to +125°C
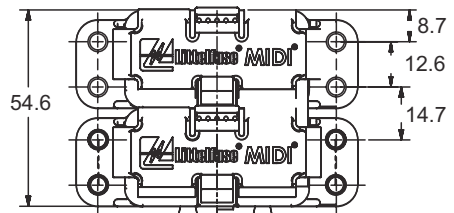**Pack Size (bag):** 1, 10, 100, 500
Notes: The holders feature a stackable side design to allow multiple holders to be joined together. Fuses are not included. The busbar needs to be installed first, followed by the Midi fuse, the split washer and finally the hex nut.

Bus Bars Accessories
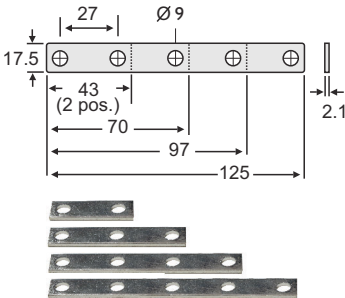
Gang Mount Setup

Dimensions in MM

RELATED PRODUCTS:

32V Midi Fuse
(see p.24)

58V Midi Fuse
(see p.24)

M5 Stud
M5 Hex Nut
M5 Split Washer

Littelfuse®
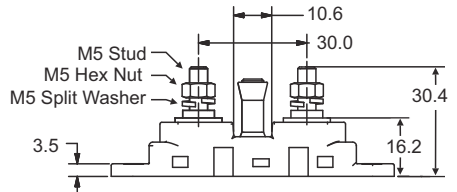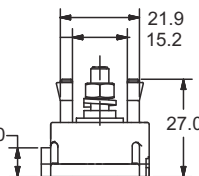
The MEGA-Flex fuse holder is used with the MEGA bolt-in fuse, available in ratings 40A to 500A. This block features a flexible cover which allows cable entry from virtually any direction, large wire size, and ring terminal stack up. Slots on the base allow holder to be mounted with cable ties or surface mount using standard screw holes. Bus bars are also available for common power feed across multiple holders. Dovetail features allow you to interlock multiple MEGA-Flex holders together for a high power distribution block or it can interlock with other Littelfuse products including FLEC, EPC, HWA20, HWB60 & Midi-Flex.

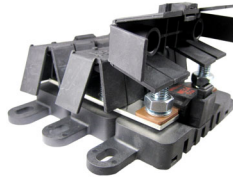| Part Number	Description
02981028	Fuse block with M8 Studs & Cover
882-839-2	Busbar 2 holes - (spans 2 modules)
882-839-3	Busbar 3 holes - (spans 3 modules)
882-839-4	Busbar 4 holes - (spans 4 modules)
882-839-5	Busbar 5 holes - (spans 5 modules)

Voltage: 70VDC
Rating: 500A
Base: Black UL 94V-0 Glass-filled PPA.
Cover: Black flexible UL94V-0 Elastomer. Red colour optional.
Studs: M8 x 1.25 Zinc plated steel. Stainless steel optional.
Nuts & Washers: Same material as studs.
Bus Bar Material: Tin plated copper.
Temperature Rating: -40°C to 125°C
Wire Size: 8mm^2 to 35mm^2
Accessories: Includes cover, hex nuts & split washers.
Pack Size: 1, 10, 100
Notes: Fuse & busbar are not included.
Approvals: RoHS

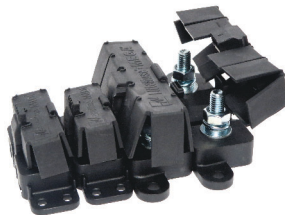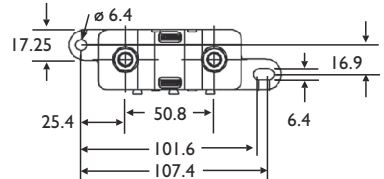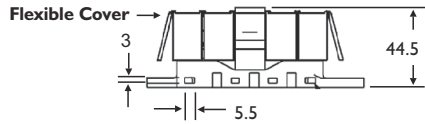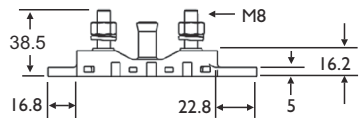**Mega-Flex Fuse Block**
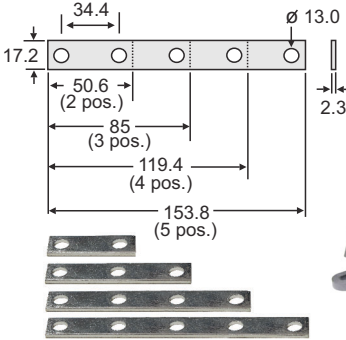
FUSE HOLDERS

Bus Bar Accessories

Multipole Bus Bars

Flexible Cover

RELATED PRODUCTS:

32V Mega Fuse
(see p.25)

70V Mega Fuse
(see p.25)

Midi-Flex & Mega-Flex fuse blocks combined.
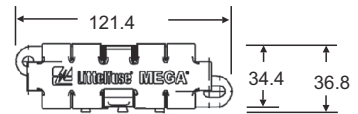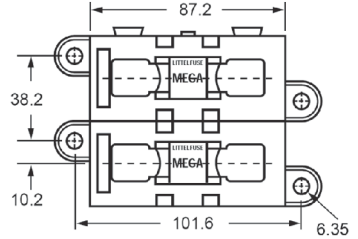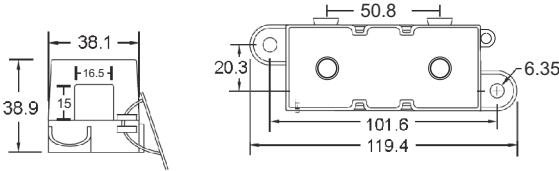

Dimensions in MM

MEGA FUSE BLOCK HARD COVER 70V

The Littelfuse MEGA® Bolt-Down Series High Current Fuse Holder is ideal for battery and alternator connections as well as providing ultra-high current protection for other types of heavy gauge cables. Interlocking pins on the sides let you connect additional fuse holders for multi-fuse applications.

Part Number	Description
02981001	Fuse Block with Hard Cover

Voltage: 70VDC
Rating: 500A
Body & Cover: Black glass filled thermoplastic.
Fuse Block: Includes cover, hex nuts & lock washers.
Studs: M8 threaded. **Torque Rating:** 5 Nm.
Features: Gang mount, stackable side design.
Pack Size: 1, 10, 100
Notes: Fuse is not included.
Approvals: RoHS

Dimensions in MM

Gang Mount Setup
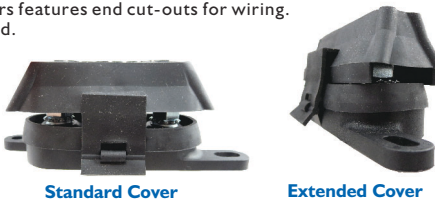
RELATED PRODUCTS:

32V Mega Fuse
(see p.25)

70V Mega Fuse
(see p.25)

MEGA FUSE BLOCKS FLEXIBLE COVER

Part Number	Description	
FMG-111	Fuse Block With Standard Cover M8 Studs (a)	NEW
FMG-116	Fuse Block With Extended Cover M8 Studs (b)	
FMG-211	Fuse Block With Standard Cover 5/16"-18 Studs (a)	
FMG-216	Fuse Block With Extended Cover 5/16"-18 Studs (b)	NEW

Rating: 500A
Body: Black UL rated 94V-0 thermoplastic.
Cover: Black flexible thermoplastic elastomer. Red cover optionable.
Fuse Block: Includes cover & sems nuts. **Wire Size:** #8 AWG / 8mm^2
Studs: Zinc plated steel studs. **Torque Rating:** 13.5 Nm.
Features: Cables can be routed to studs from nearly any direction.
Pack Size: 1, 10, 100
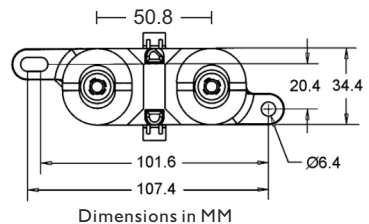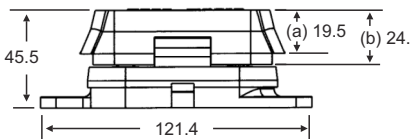**Notes:** Both covers features end cut-outs for wiring. Fuse is not included.
Approvals: RoHS

Standard Cover

Extended Cover

Dimensions in MM

RELATED PRODUCTS:
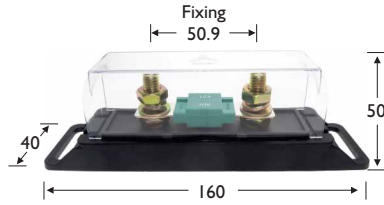
Mega Fuses
(see p.25)

MEGA FUSE BLOCK WITH CLEAR COVER

Part Number	Description
BHR059-25-M8	Fuse Block with Clear Cover

Voltage: 100VDC
Rating: 500A
Studs: M8 **Studs Max Torque:** 12Nm
Operating Temperature: -40 to +125°C
Hardware: Nuts and washers included.
Pack Size: 1
Notes: Fuse not included.

Fixing 50.9
50
40
160

Dimensions in MM

Adler

NEW

RELATED PRODUCTS:

Mega Fuse 32V
(see p.25)

Mega Fuse 70V
(see p.25)

LIFT TRUCK FUSE BLOCK WITH CLEAR COVER

Part Number	Description
BHR061-25-M10	Fuse Block with Clear Cover

Voltage: 120VDC
Rating: 800A
Studs: M10 **Studs Max Torque:** 14.3Nm
Operating Temperature: -40 to +125°C
Hardware: Nuts and washers included.
Pack Size: 1
Notes: Fuse not included.

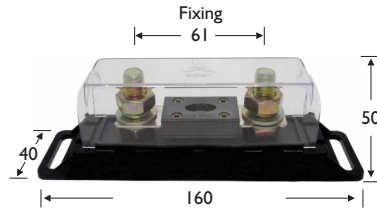Fixing 61
50
40
160

Dimensions in MM

Adler

NEW

RELATED PRODUCTS:

FBT Fuses 48V-80V
(see p.26)

LIFT TRUCK FUSE BLOCKS

EAT·N Bussmann

Part Number	Description
FBTB-LN	Fuse Block with Nylon Insert Locknuts
4164-FR	Fuse Block with Free Running Nuts **NEW**

Rating: 800A
Voltage: 125VAC / 80VDC
Base: Thermoplastic
Studs: 5/16" - 24 (M8)
Torque: 120 In-Lbs.
Pack Size: 1, 10, 50, 100
Notes: Countersunk mounting holes to suit No.10 flat head screws. Fuses not included.

13.8
41.2

85.8
61.7
25.4
24.1

11.1 DIA. x 20.8 COUNTERSINK
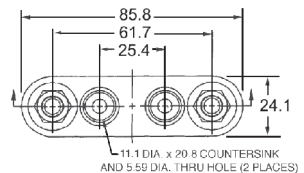AND 5.59 DIA. THRU HOLE (2 PLACES)

RELATED PRODUCTS:

FBT Fuses
(see p.26)

ANL Fuses
(see p.27)

ANN Fuses
(see p.27)

EV FERRULE & BOLTED TAG FUSE BLOCKS 10.3MM DIA.

adler

Part Number	Description
BH114-1C	Single Pole Ferrule Cartridge Fuse Block 30A
BH114-1M	Single Pole Flush Bolted Tag Fuse Block 50A
BH114-CN	Clear Snap On Fuse Cover (Ferrule or Bolted)

Rating Clip Mount: 30A **Voltage:** 1100VDC
Rating Bolt Mount: 50A **Voltage:** 1100VDC
Suit Fuses: 10.3 x 38.1mm (Cartridge or Bolted Tag).
Wire Size: 14-10 AWG (1.6 - 8.4mm2)
Material: Thermoplastic (Base & Cover).
Flammability: UL94VO (Base)
Operating Temperature: -40°C to +125°C
Terminals: Tin plated, copper alloy.
Mounting: Screws, bolts or DIN rail mounting.
Feature: Slide lock design.
Pack Size (box): 1, 10, 100
Notes: Fuse not included.
Approvals: TUV

RELATED PRODUCTS:

EV Cartridge Fuse
(see p.32-34)

EV Flush Bolted Fuse
(see p.32-34)

Clear Cover

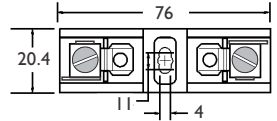**Fuse Block Assembled**

Gangable Slide Lock Feature

Straight 1/4" QC

90° 1/4" QC

Screw

Screw

Terminals fitted on each end.

Dimensions in MM

EV / EVSE BOLTED FUSE BLOCKS MODULAR

E·T·N Bussmann

The C5268 series is a simple design modular fuse block. With this design, the fuse terminal and cable (with termination) are mounted on the same stud, minimizing labor needed for installation.

Part Number	Ampere Rating	Stud Diameter and Thread Type	"A" Stud Height
C5268-4	100A	1/4"-20 UNC (6.35mm)	1.00" (25.4mm)
C5268-5	100A	1/4"-20 UNC (6.35mm)	1.75" (44.45mm)
C5268-3	200A	5/16"-18 UNC (7.93mm)	0.75" (19.05mm)
C5268-1	200A	5/16"-18 UNC (7.93mm)	1.00" (25.4mm)
C5268-2	200A	5/16"-18 UNC (7.93mm)	1.75" (44.45mm)
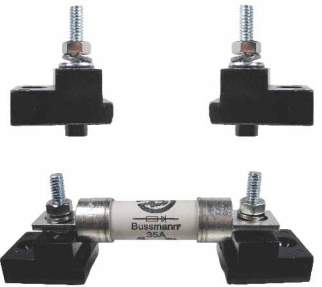
Pack Size (box): 1 block (order 2 blocks per fuse).
Ambient Temp: 150 °C
Base: Plaslok S5440 phenolic, UL 94V-0 or 94V-1.
Studs: Steel, Zinc Plated
Accessories: Includes nut & spring washer.
Notes: Fuse not included.

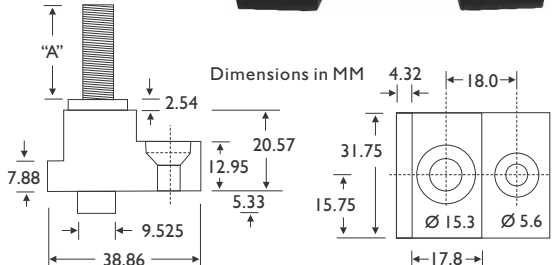**Fuse blocks with fuse installed.**

RELATED PRODUCTS:

Class T Fuse 160V
(see p.31)

EV Fuse 500V - 800V
(see p.32-33)

EV Fuse 1000V
(see p.34)

Dimensions in MM

PROLEC

Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

EV / EVSE BOLTED FUSE BLOCKS FIXED

The BFR series fuse bases are suitable for use in automotive vehicles and automotive supply equipment. The bolt mount assembly system uses a wedge lock system to withstand extreme vibration or dynamic loads. The Adler BFR series EV fuse block uses special materials for use with high fault currents and temperatures specifically for automotive fuses applications.

Adler

NEW

Rated Voltage: 1000VAC / 1000VDC
Rated Current: Adler EV fuses (all current ratings) can be used with their suitable fuse blocks.
Operating Temperature: -50°C to +180°C
Max Voltage: 13-18 kV
Insulation Board Material: FR4
UL94 Flame Retardant Grade: 94HB
Insulation Resistance: 50,000 M ohm
Studs: Stainless steel.
Hardware: Two-piece interlocking wedge lock washers.
Hardware Option: Detend edged washers add suffix -S.
Pack Size: 1, 20, 100
Notes: Fuse not included.

FUSE HOLDERS
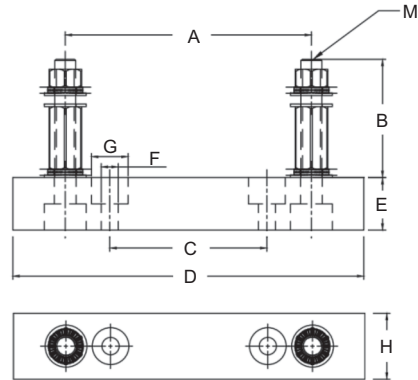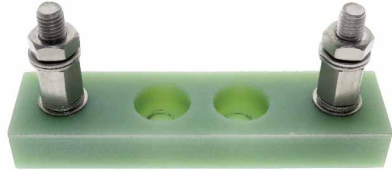
Fuse Block Part Number	Suggested Stud Torque	EV Fuse Range Adler Series	Dimensions in MM							
			A	B	C	D	E	F	G	H	M
BFR063-38-M6	9 ± 1 Nm	AE5..620	63	38	31	84	15	5.5	9	25	M6
BFR071-46-M8	12 ± 1 Nm	AE5..625, AE5..631	71	46	25	96	15	8.5	14	30	M8
BFR094-45-M8	12 ± 1 Nm	AE7..i25	94	45	60	134	20	6.5	14	25	M8
BFR099-70-M10	16 ± 1 Nm	AE7..i38, AE7..i51	99	70	60	146	20	6.5	14	42	M10
BFR106-46-M8	12 ± 1 Nm	AEX..731	106	46	60	146	20	6.5	14	35	M8
BFR116-72-M10	16 ± 1 Nm	AEX..738, AEX..751	116	72	60	146	20	6.5	14	42	M10

RELATED PRODUCTS:

AE5 500V Fuses
(see p.32)

AE7 800V Fuses
(see p.33)


AEX 1000V Fuses
(see p.34)

CLASS T, EV & EVSE BOLTED FUSE BLOCKS MODULAR

Littelfuse

NEW

Features
- Modular design reduces inventory requirements.
- Supplied with nut and belleville washer.
- 200kA (VAC), 250kA (VDC) short-circuit withstand rating.

Part Number	Ampere Rating	Terminal Stud Size (Metric)	Suggested Stud Torque
LSCR001	400A	1/4"-20 (6.35mm)	6.8 Nm
LSCR002	800A	3/8"-16 (9.52mm)	21.6 Nm

Voltage: 700VAC / 1500VDC
Insulator Material: Molded Phenolic (150°C Max)
Terminal Material: Steel, Zinc Plated.
Flammability Rating: UL 94-V0
Ordering Information: Sold as a pair of blocks.
Notes: Fuse not included.
Approvals: UL cULus CSA CE RoHS

29.4
62.87
LSCR001

31.92
92.25
LSCR002

RELATED PRODUCTS:

Scan this QR Code for more information

QR Code: 7017

Fuse Block	Class T Fuse	AE5 500V	AE7 800V	AEX 1000V
LSCR001	70A - 200A	50A - 400A	60A - 150A	-
LSCR002	225A - 800A	-	175A - 600A	175A - 600A

CLASS T, EV & EVSE BOLTED FUSE BLOCKS MODULAR

Littelfuse

MADE IN THE USA

NEW

Features
- Modular design reduces inventory requirements.
- Supplied with nut and belleville washer.
- 200kA short-circuit withstand rating.
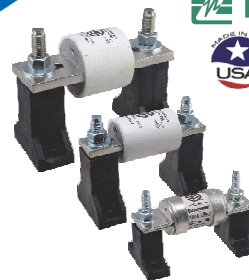
Part Number	Ampere Rating	Terminal Stud Size (Metric)	Suggested Stud Torque
LSCR101	400A	1/4"-20 (6.35mm)	7.6-9.3 Nm
LSCR102	800A	3/8"-16 (9.52mm)	23.4-28.6 Nm
LSCR103	1200A	1/2"-13 (12.7mm)	30.5-37.3 Nm

Voltage: 700VAC / 1500VDC
Insulator Material: Thermoplastic (125°C Max)
Terminal Material: Steel, Zinc Plated.
Ordering Information: Sold as single blocks (order 2 blocks per fuse).
Notes: Fuse not included.
Approvals: cULus RoHS

63
LSCR101

92
LSCR102

134
LSCR103

RELATED PRODUCTS:

Scan this QR Code for more information

QR Code: 7018

Fuse Block	Class T Fuse	AE5 500V	AE7 800V	AEX 1000V
LSCR101	70A - 200A	50A - 400A	60A - 150A	-
LSCR102	225A - 800A	-	175A - 600A	175A - 600A
LSCR103	1000A - 1200A	-	-	-

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FUSE HOLDERS

Power Distribution Units, Blocks & Studs

Engineered solutions.

POWER DIST.

MARINE RATED BATTERY FUSE BAR

EAT•N **Bussmann**

Features:
- Suitable for DC Main, inverter, windlass and bow thruster circuit protection.
- Weatherproof, suitable for small locations & other harsh environments.
- Simple, economical and compact circuit protection system. Satisfies ABYC 7.
- Santoprene red or black insulating cap prevents accidental shorts.
- Provides high current protection in tight space constraints.
- Mounts on a battery post, battery switch or busbar.

Part Number	Pole Kit	Mount*	Stud	Cover
CFBAR1SP-KIT	Single	10.3mm	1/4"-20	Red
CFBAR1SP-KITB	Single	10.3mm	1/4"-20	Black
CFBAR1M8SPRK	Single	10.3mm	M8	Red
CFBAR1M8SPBK	Single	10.3mm	M8	Black
CFBAR2M8SPRK	Double	10.3mm	M8	Red
CFBAR2M8SPBK	Double	10.3mm	M8	Black
CFBAR1M8XBRK	Single	13.5mm	M8	Red
CFBAR1M8XBBK	Single	13.5mm	M8	Black

CFBAR1 Single Pole With Red Cover Kit

CFBAR2 Double Pole With Red Cover Kit

Rating: 300A max per CFBAR   **Voltage:** 58VDC
Body: Thermoplastic PPS UL94-V0 **Busbar:** Nickel plated copper
Fuse Bar Stud: Stainless steel. Two options 1/4" -20 or M8.
Kit Contents: Includes S/S nuts, washers and insulating cover.
Mounting Hole*: Mount on a M10 (3/8") battery post.
Mounting Hole*: Mount on a M12 (1/2") battery post.
Notes: The updated 'SP' version of the battery fuse bar does not require a special isolating nut so regular nuts and washers can be fitted to the stud(s). Fuses not included.

Isolated Stud

Mounting Hole

Single Isolated Base with Laser Marking

SINGLE POLE STUD COVER AND BAR

58.3

22   6

44.5 (1/4"-20 Stud) or 46.5 (M8 Stud)

2.5   11

30

61.9

Dimensions in MM   20

10.3 (M10) or 13.5 (M12)   15.5

Red Cover   **Black Cover**
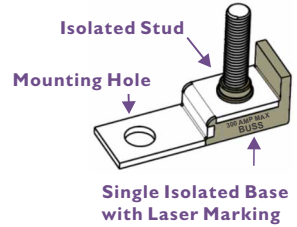
RELATED PRODUCTS:

MRBF fuses See page 28.
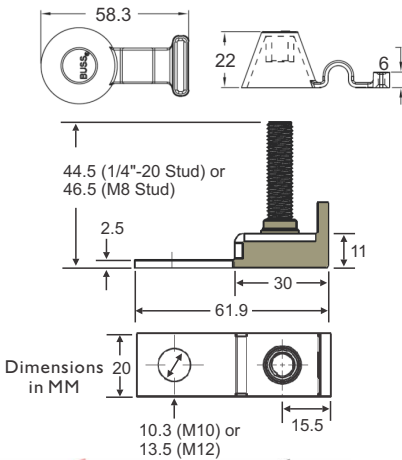
DOUBLE POLE STUD COVER AND BAR

82.2

22   6

44.5 (1/4"-20 Stud) or 46.5 (M8 Stud)

2.5   11

56.5

88.5

Dimensions in MM   20

10.3 (M10) or 13.5 (M12)   12 12
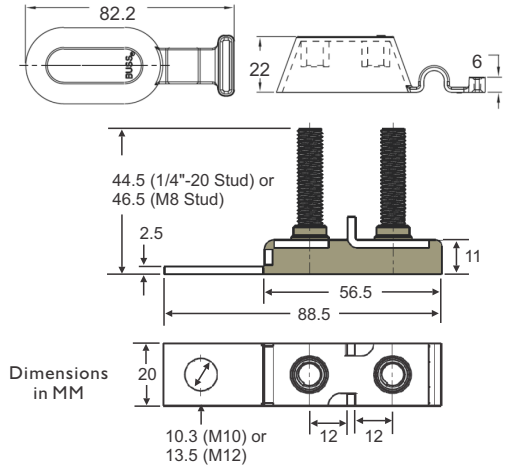
Ring terminal fused protection to accessory

BATTERY TERMINAL

Scan this QR Code for more information

QR Code: 3000

PROLEC

ZCASE M8 FUSE BATTERY STUD MOUNT BARS 1 POLE

Littelfuse

NEW

The Littelfuse ZCASE® SMZ Series Stud Mount Fuse Holder reduces the need for wiring and parts by allowing ZCASE® single high-current fuses to be directly installed on an alternator, battery switch, or electrical relay.

Features:
• Up to 3 fuse holders can be stacked to protect multiple circuits.
• Space-saving design eliminates the need to wire in a separate fuse holder or power distribution module (PDM).
• Cover offered in 2 styles. Fuse only or fuse and mounting stud.

Part Number	Description - 1 Pole Fuse Bar
0FHZ0201Z	Fuse Bar, M8 Mount with Fuse-Stud Cover
0FHZ0202Z	Fuse Bar, M8 Mount with Fuse Cover
0FHZ0211Z	Fuse Bar, M10 Mount with Fuse-Stud Cover
0FHZ0212Z	Fuse Bar, M10 Mount with Fuse Cover

Fuse Bar with Fuse-Stud Cover

Fuse Bar with Fuse Cover

Voltage: 80VDC
Rating: 300A continuous. 400A max.
Operating Temp.: -40°C to 105°C.
Fuse Terminal: Isolated stud M8.
Cover: Red UL 94 V-0 rated
Fuse Busbar: Tin-plated copper busbar.
Torque M8 Nut: 14 Nm
Kit Contents: Includes Fuse Bar, Cover & Nut.
Notes: Zcase fuse not included.

Multiple Mounting Arrangement

Single Pole M8 Isolated Fuse Terminal Pictured Without Fuse

RELATED PRODUCTS:

Zcase M8 fuse & Shunt
(see page 29)

MRBF M8 fuse
(see page 28)

Serrated Flange Nut For Mounting

Mounting Hole 8.5 or 10.5

39.8

52
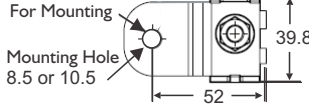
M8x1.25 Serrated Flange Nut To Fix Zcase Fuse & Wire Terminal

38.1

65
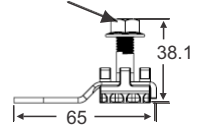
ZCASE M8 FUSE BATTERY POST MOUNT BARS 2 & 3 POLES

Littelfuse

NEW

Part Number	Description
0FHZ00854-BX	2 Pole fuse bar kit & cover
0FHZ00853-BX	3 Pole fuse bar kit & cover

Voltage: 32VDC
Rating: 275A max continuous.
Fuse Terminal: Isolated studs M8.
Torque: 12 to 16 Nm
Mounting: Top Post Positive 19mm.
Kit Contents: Includes Battery Bar, Fuse Bar, Cover, S/S Nuts & Washers.
Operating Temp.: -40°C to 125°C.
Notes: Zcase fuse not included.

3 Pole M8 Isolated Fuse Terminals

2 Pole M8 Isolated Fuse Terminals

RELATED PRODUCTS:

Zcase M8 fuse & Shunt
(see page 29)

MRBF M8 fuse
(see page 28)

Red cover fitted.
(Included in kits)

Scan this QR Code for more information

QR Code: 9030

POWER DIST.

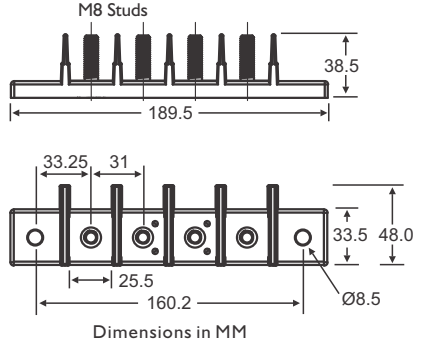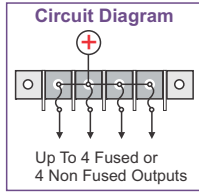# 4 POSITION MARINE RATED BATTERY FUSE BLOCK

Littelfuse

Features:
- All 4 positions are electrically connected via a internal bus bar.
- The block can accommodate up to four CF8 or MRBF Fuses.
- A single input power cable can be connected under one fuse to power all 4 positions or it can be connected to one stud to provide power to the remaining 3 positions.
- Can distribute non-fused power or can be used as a grounding block.
- The studs are electrically isolated so standard hardware can be used.

Part Number	Description
0799C001ZXS	4 Way bussed battery fuse block

Block Rating: 500A max total.
Output Terminals: 300A fuse max.
Voltage: 58VDC
Mounting Torque: 25 Nm max
Studs: M8
Operating Temp.: -40°C to 125°C.
Notes: Fuses not included.
Approvals: ISO 8820-5

Circuit Diagram

Up To 4 Fused or
4 Non Fused Outputs

RELATED PRODUCTS: MRBF fuses
(See page 28)

M8 Studs

38.5
189.5

33.25 31
25.5
160.2
33.5 48.0
Ø8.5

Dimensions in MM

---

5 & 7 POSITION ZCASE FUSE BLOCK

Littelfuse

NEW

The 5 or 7 position ZCase fuse blocks are designed for primary high current power distribution. One position is used as a power input terminal and usually fitted with a Zcase shunt to provide common power, via the bus bar (included), to the remaining positions fitted with ZCase fuses for protected power outputs. A variety of bus bar configurations are possible. The green dust covers keep dust out of the backside of the fuse box and the cover protects the fuses from debris. Applications include construction equipment, body builders, agricultural equipment and HD/MD Trucks.

Features:
- High current distribution with flexible bussing.
- Busbars can also be cut to create split circuits.
- Corrosion resistant coatings and stainless steel nuts.
- ZCase 3298 series fuses (40A to 600A) or Zcase shunts can be used in any location.

Part Number	Description
0FHZ0005Z	5 Stud assembly, M8 input, busbar, cover & tether.
0FHZ0009Z	7 Stud assembly, M8 input, busbar, cover & tether.

Voltage: 32VDC
Maximum Continuous Current : 400A.
Fuse Block Contents: Studs, Busbar, Black Silicon Rubber Tether & Green Silicon Rubber Dust Covers.
Fuse Block Dimensions 5 Way: 217mm x 86mm x 59mm.
Fuse Block Dimensions 7 Way: 281mm x 86mm x 59mm.
Busbar: Solid Copper with Tin Plating.
Max wire size: AWG 4/0 (105mm²)
Contact Temperature: -40°C to 105 °C.
Notes: Zcase fuses / shunts are not included.

RELATED PRODUCTS: Zcase Fuse
(See page 29)   Zcase Shunt
(See page 29)

0FHZ0005Z

Green Covers →

Secure Latch →
Finger Release
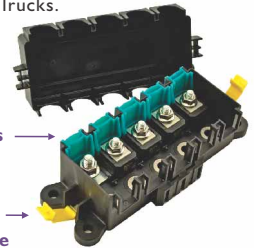
0FHZ0009Z

Green dust covers not shown but are included with this block.

Scan this QR Code for more information QR Code: 9037

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POWER DIST.

BATTERY MOUNT FUSE HOLDER WITH BUSBAR 2-4 POLE

Littelfuse®

The Battery Mount ZCASE® Fuse Holder with Busbar (BMZB) series allows you to mount fusing directly to a post-style battery terminal. This series offers a compact solution with an integrated busbar, which consolidates complex wiring around a battery system, eliminating or reducing the need for additional wiring. By creating additional fusing locations outside of the main fuse box, these products help reduce cabling and assembly time and provide localized circuit protection without modifying the existing battery harness. This product is designed to mate with M6 ZCASE® fuses, and is rated to operate with fuse ratings up to 400A. This series mounts directly to the battery post with all necessary hardware coming pre-assembled. Available in 2-, 3-, and 4-position configurations, this series serves as a scalable circuit protection solution.

Applications
- Battery-mounted circuit protection.
- Secondary circuit protection for applications and motors such as trucks.
- Best used for hydraulics, electric pumps, or other secondary motors.

Features:
- Specifically designed to relocate circuit protection closer to a vehicle battery.
- Integrated busbar.
- Plastic cover (3 & 4 pole only) & overmolded housing.
- Battery clamp oriented to provide clearance for wire routing.

FHZ210

Two fused outputs.

Part Number	Description -
FHZ210	Negative Post Mount Fuse Holder 2 Position No Cover (-)
FHZ310	Positive Post Mount Fuse Holder 3 Position with Cover (+)
FHZ410	Strap Mount Fuse Holder 4 Position with Cover

Voltage: 32VDC
Rating: 400A Max continuous.
Operating Temp.: -40˚C to 85˚C.
Base Material: Black PPA-GF30 UL94 V-0
Cover Material: Black PBT UL94 V-0
Fuse Busbar:
Torque Battery Post: Tighten the M6 nut to 5.4 Nm to secure the base to the battery post.
Torque Zcase Fuse: Assemble nut and washer and tighten the nut to 14 Nm to secure the ring terminal to the ZCASE fuse.
Notes: Zcase fuses are not included.

FHZ310

Three fused outputs.

FHZ410
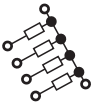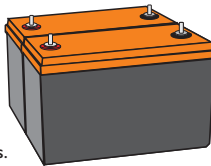

Four fused outputs.

FHZ410 is designed to be used as a battery strap to connect the positive posts of 2 Group 31 batteries, the 4-position holder also provides 4 individual fused outputs in a convenient linear setup.

FHZ410
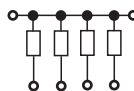

Four fused outputs.

RELATED PRODUCTS:

Zcase fuse
See page 29.

Zcase shunt
See page 29.

MRBF fuses
See page 28.

POWER DIST.

JCASE FUSE MODULE SEALED - 3 POLE

GEP POWER PRODUCTS

NEW
IP66

The 3 Pole Jcase fuse module with common feed, suits high amperage circuit protection applications in harsh environments with limited space. This sealed, compact and connectorized fuse module is a cost effective and installation friendly circuit protection solution. Panel mount with included speed nuts or surface mount.

Part Number	Description
JCU-3P-000-P	3 Pole Jcase Fuse Module
12124685	3 Way Female Connector
12045699	Connector TPA Terminal Position Assurance
12052457	Female Terminal 20-18AWG, 0.5 - 0.8 mm² wire
12052455	Female Terminal 16-14AWG, 1 - 2 mm² wire
12052456	Female Terminal 12-10AWG, 3 - 5 mm² wire
15324995	Cable seal, 2.01 - 2.85mm dia. wire, Red
15324994	Cable seal, 2.81 - 3.75mm dia. wire, Grey
15324996	Cable seal, 3.61 - 4.50mm dia. wire, Blue
12059255	Cavity Plug Green

M6
+

3 fused outputs via connector.
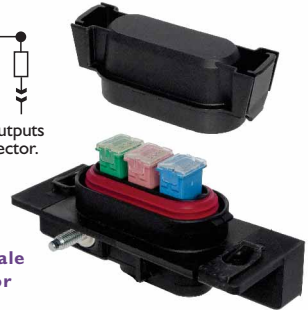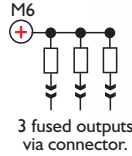
Voltage: 32VDC. **Rating:** For use with 3 x Jcase fuses (20A - 60A)
Temperature rating: 120°C (250°F).
Materials: Cover and housing - Nylon 66 **Seal:** Silicon.
Terminals: Tin Brass /Tin plate. **Stud** - Zinc plated steel.
Ingress Protection Rating: IP66. **Mounting:** Surface or Panel.
Output Connector: Delphi MP 630 series female connector. RoHS
Notes: Fuses, connector, TPA, terminals, seals and plug not included.

3 Way Female Connector

Scan this QR Code for more information

RELATED PRODUCTS: **Jcase fuses 32V** (See page 21). **Female Terminals Seals and Plug:**

MIDI FUSE DISTRIBUTION BLOCK 3 POLE

Littelfuse

NEW
IGNITION PROTECTED
IP69K

Features:
Suited for near-the-battery applications and can be mounted in exposed locations.
Single input power cable connects to a 3 pole internal busbar to feed 2 or 3 fused output cables.
Eliminates splices & multiple fuse holders. 2 spare Midi fuses can be fitted to the inside of the cover.
Water-proof and dust-proof fuse holder. Very high IP rating IP69K.
Developed for high current loads, and harsh conditions.

Part Number	Fuse Block Description
04980933	3 Pole Midi Fuse Module Kit

Module Kit 04980933

04980933 Module Kit Contents
1 x Base with tethered cover & seal.
1 x Busbar powers up to 3 fuses from a single input cable.
6 x Nuts to secure up to 3 Midi fuses.
6 x Cable seals of assorted sizes.
1 x Cavity plug, required if you only install 2 x Midi fuses.
2 x Cable seal caps to secure cable seals into unit.
4 x Screws to secure 2 spare fuses to inside cover.
1 x Instruction sheet.
Module kit does not include ring terminals or fuses.

3 fused outputs
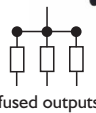
Voltage: 58VDC max. **Rating:** Maximum total current 200A.
Wire Size: 16 or 25mm² (input cable), 6 to 16mm² (output cables).
Temperature Rating: -40°C to +85°C. **Body & Cover:** UL 94-V0.
Ingress Protection Rating: IP67, IP69K when cover, cable seals & caps are installed. Cables must not exceed the minimum bend radius advised in the included instruction sheet to ensure seal integrity.
Cavity Plug: Included cavity plug must be fitted if using only 2 x Midi fuses.
Mounting: Surface mount using 3 fixing holes (M6 or 1/4").

Scan this QR Code for more information

RELATED PRODUCTS: **Midi fuses 32V** (See page 24). **Midi fuses 58V** (See page 24).

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FUSED BATTERY DISTRIBUTION UNIT 3 WAY SIDE MOUNT
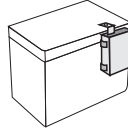
NEW

90 Degree Busbar

Side Mount

Clip On Cover

Features:
- Suits up to 3 x Midi fuses 32Vdc.
- Includes cover and internal adhesive label.
- Include 90 degree copper tin plated busbar.
- Angled busbar saves valuable bonnet space.
- Cable feeds through slots in the housing.
- Small size with easy access durable clip on lid.
- Includes 6 x M5 self locking nylon flanged nuts.

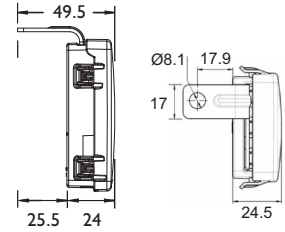| Part Number	Description
0300468	3 Way Midi Fuse Housing & 90° Busbar

Voltage: 32VDC
Rating: 90A Max at 85°C.
Hardware: Includes M5 flanged nuts.
Studs: M5 threaded zinc plated steel studs.
Flammability: UL94
Wire Size: 8mm² to 35mm².
Operating Temperature: -30°C to +120°C
Pack Size: 1, 10, 100
Notes: Fuses are not included.

RELATED PRODUCTS:

M8
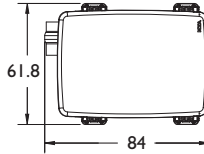
Midi fuse
See page 24

3 Way Post Terminal
See page 162

Circuit Diagram

Power Input (+) Internal Busbar 3 Fused Outputs

61.8
84
49.5
Ø8.1 17.9
17
25.5 24 24.5

Dimensions in MM
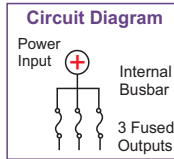
FUSED BATTERY DISTRIBUTION UNIT 3 WAY POST MOUNT

Features:
- Suits 2 x Midi fuses and 1 x Mega fuse or Powerval fuse.
- Includes durable clip-on cover with distinct red housing.
- Cable feeds through slots in the housing.
- Double ring (19mm) connection to positive top post battery terminal.
- Fully insulated cap prevents accidental short circuits.
- Saves money by using one product that does the same as a battery terminal, terminated cable and a fuse box.

Note: Fused BDU includes 4 x M5 nuts with nylon insert, 2 x M8 nuts, 1 x M8 washer, busbar & housing. Fuses are not included.

Part Number	Description
00011	3 Way Battery Dist. Unit & (+) Red Cover Only. No fuses.
00011FDUK	Kit Inc. - BDU + Cover, 1 x POWCAL2, 2 x MID030 Fuses.

Base shown with fuses fitted

Circuit Diagram

Power Input (+) Internal Busbar 3 Fused Outputs

Busbar
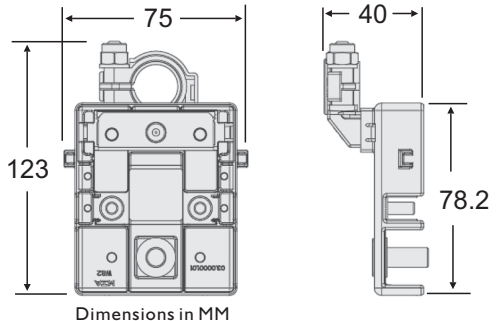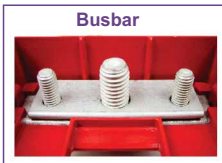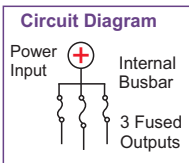
RELATED PRODUCTS:

Midi fuse
See page 24

Mega fuse
See page 25

Powerval
See page 26

75
123
40
78.2

Dimensions in MM

FUSED BATTERY DISTRIBUTION UNIT 10 WAY

MTA

Features:
- Suits 8 x Maxi fuses & 2 x Midi fuses (not included).
- 2 Hinged covers for easy access to either Maxi fuses or Midi fuses.
- Simple double ring (19mm) connection to positive battery terminal.
- Includes battery charging terminal & one fuse puller.
- Opening for the starter cable to pass into unit.
- A large assortment of terminals & power connectors (not included).
- 4 colour-coded sockets for polarized power connectors to Maxi fuses.
- Common feed powers all fuse positions.

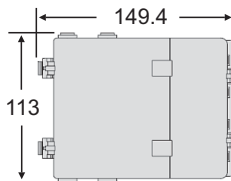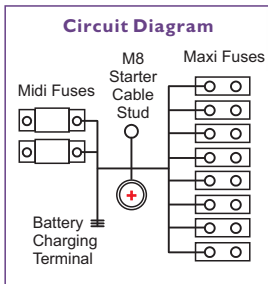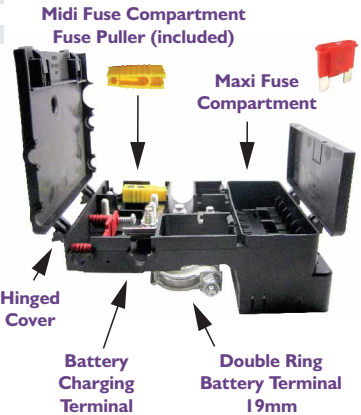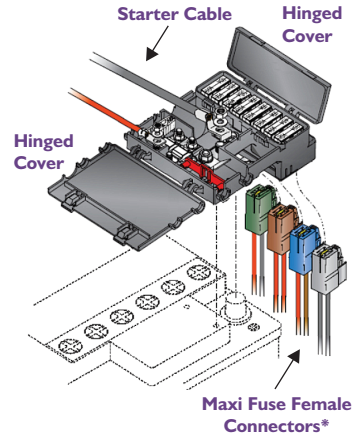| Part Number	Description
00710	10 Way Fused Battery Power Distribution Unit (Pack 1)
40300	Maxi Fuse Connector F Black - Non polarized (Pack 1)
40310	Maxi Fuse Connector F Blue - Polarized (Pack 1)
40340	Maxi Fuse Connector F Grey - Polarized (Pack 1)
40325	Maxi Fuse Connector F Green -Polarized (Pack 1200)
40335	Maxi Fuse Connector F Brown -Polarized (Pack 1200)
07650	Maxi Fuse Connector F Terminal 1.5 to 2.5mm² 20A (BK/RL)
07660	Maxi Fuse Connector F Terminal 4 to 6mm² 36A (BK/RL)
07670	Maxi Fuse Connector F Terminal 8 to 10mm² 50A (BK/RL)
07671	Maxi Fuse Connector F Terminal 16mm² 75A (BK/RL)
08240RL	Midi Fuse Terminal 2.5 to 4mm² 28A, M5 (RL) (Pack 3000)
08245RL	Midi Fuse Terminal 6.0 to 8mm² 48A, M5 (RL) (Pack 2400)
08250RL	Midi Fuse Terminal 10 to 16mm² 75A, M5 (RL) (Pack 2400)
05925RL	Midi Fuse Terminal 25 to 35mm² 125A, M5 (RL) (Pack 800)

Ordering Notes:
1. Distribution unit does not include fuses, terminals or connectors.
2. Only 1 x Midi terminal is required for each Midi fuse.
3.*Each connector plugs into 2 x Maxi fuses and requires 2 terminals.
Non-polarized (black) connector plugs into any of the 4 sockets.
Polarized connectors only plug into their colour-coded socket eg.
blue connector into blue socket. Each connector plugs into 2 x Maxi
fuses.

Starter Cable

Hinged Cover

Hinged Cover

Maxi Fuse Female Connectors*

Midi Fuse Compartment
Fuse Puller (included)

Maxi Fuse Compartment

Hinged Cover

Battery Charging Terminal

Double Ring Battery Terminal 19mm

Circuit Diagram

Midi Fuses

M8 Starter Cable Stud

Maxi Fuses

Battery Charging Terminal

149.4

113

Dimensions in MM

249

100°

84.7

45.5

41 31

79.4
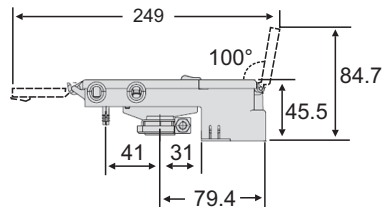
RELATED PRODUCTS:

Maxi Fuse
(see p.18)

Midi Fuse
(see p.24)

**Maxi Fuse Connector
& Female Terminals**

(2.5 - 4mm²)
(6.0 - 8mm²)

(10 - 16mm²)

(25-35mm²)
Polarity B

Midi fuse M5 Terminals (Indent Items)

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MEGA FUSE HIGH POWER DISTRIBUTION MODULE 2 POLE

Littelfuse®

The 2 Pole High Power Distribution Module (HPDM) provides two high current Mega fuse protected circuit outputs as well as an un-fused output that can optionally be used to parallel multiple modules or deliver power to circuits which do not require circuit protection or to daisy chain multiple devices.

IP67
IP69K

M10 Stud
M10 Stud

Part Number	Description
880195400	2 Pole with cover

Either side can be input or un-fused output.

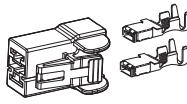**M10 Stud**   **M8 Stud**   **2 x M8 Mounts**

Voltage: 48VDC (limited by fuses).
Max Input Current: 600A
Max Fuse Rating Per Circuit: 300A
IP Rating: IP67, IP69K
Dimensions: 129 x 125 x 45mm
Notes: Mega fuses not included.

Un-fused ouput.
(eg. starter)

Batteries

Two fused outputs.
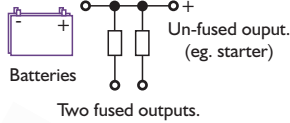
Scan this QR Code for more information

QR Code: 9022

RELATED PRODUCTS:

Mega Fuse 32V
(See page 25)

Mega Fuse 70V
(See page 25)

MEGA FUSE DISTRIBUTION BLOCKS 2-5 POLES

EATON Bussmann

Heavy duty power distribution module for main branch primary fusing.
The common bus bar requires just one input connection to power all the fuses.

Part Number	Description
LMG2-1-001	2 Pole with stud input and cover
LMG3-1-001	3 Pole with stud input and cover
LMG5-1-001	5 Pole with stud input and cover

Rating: Maximum total combined rating is 300A continuous.*
Body: Black UL-Rated 94 V0 thermoplastic.
Studs: 5/16"-18 plated steel (E), optional M8 metric studs(M).
Hardware: Includes busbar, nuts & lock washers.
Temperature:-40°C to 85°C.
Cover: Red EPDM (protection from accidental shorts).
Notes: *Maximum ampere rating based on numerous variations possible between numbers of poles used, fuses selected, input and output wiring. Mega fuses are not included.

LMG2-1-001   **LMG3-1-001**
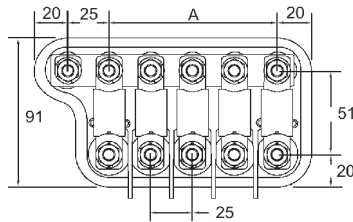
LMG5-1-001
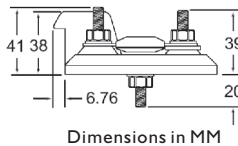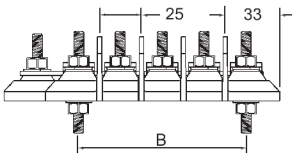
Number of poles	Dimensions in MM	
	A	B
2	25	25
3	50	50
5	100	50 or 100*

*5 pole block has 3 input stud holes to provide 50 or 100mm spacing between the 2 studs.

Dimensions in MM

RELATED PRODUCTS:
Mega fuses see page 25.

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4 X MEGA & 2 X MIDI DISTRIBUTION BLOCK

Littelfuse®

IP66 NEW

The Littelfuse LTX Power Distribution Module is a high current sealed primary fuse box that can be placed in or near the battery box to fuse major feeder cables. The unit features a single bussed power input to all 4 MEGA® and 2 MIDI® fuses.

Features
- Common power input reduces the number of large gage cables that need to attach to battery .
- Put all the high current fusing in one sealed location (IP 66)*.
- Gore-Tex breather prevents temperature changes from pulling in moisture.
- Broad range of values for MEGA® and MIDI® fuses allow for use in a variety of applications.

Voltage: 32VDC.
Max Total Current: 240A.
Terminal Stud Size: M5 (Midi fuse) / M8 (Mega fuse).
Flammability Rating: UL94-V0
Input Wire Size: 50mm².
Output Wire Sizes: 16-35mm² (Mega), 10-16mm² (Midi)
Hardware: S/S nuts & spring washers included.
Seals & Plugs: Not included, please order separately.
Ingress Protection Rating: IP66.
Seals / plugs must be installed to achieve IP66 rating. Please ensure seal flange is completely pressed through the hole to ensure a good seal on the inside of the block as shown in the image.
Temperature Rating: -40 °C to +120 °C
Notes: A cavity plug is required for each opening that is not fitted with a cable & cable seal. Fuses are not included.

Part Number	Fuse Block Description
07981002ZXS	6 Pole Fuse Block with Cover, Busbar, Nuts & Washers.

Part Number	Seal & Plug Accessories	Colour	Cable Diameter	Position
868-952	Cable Seal suits Midi Fuse	Yellow	10 mm²	P1, P7
868-953	Cable Seal suits Midi Fuse	Green	16 mm²	P1, P7
868-955	Cable Seal suits Mega Fuse	Blue	16 mm²	P2, P3, P5, P6
868-956	Cable Seal suits Mega Fuse	Yellow	25 mm²	P2, P3, P5, P6
868-957	Cable Seal suits Mega Fuse	Yellow	35 mm²	P2, P3, P5, P6
868-958	Cable Seal suits Input Cable	Yellow	50 mm²	P4
868-951	Cavity Plug suits Midi Fuse	Grey	-	P1, P7
868-954	Cavity Plug suits Mega Fuse	Grey	-	P2, P3, P5, P6

Note:
Seals must be fully pressed into block as shown in this image.

Circuit Diagram

Internal Busbar

Power Input P4

(6 Fused Outputs in Total)
2 x Midi Fuse Outputs
4 x Mega Fuse Outputs

P1 P2 P3 P4 P5 P6 P7

60

132   8.8

231

Ø9.0 x 4

75   144.8

210

Dimensions in MM

RELATED PRODUCTS:

Midi fuse
(see p.24)

Mega fuse
(see p.25)

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POWER DIST.

2 X MEGA & 3 X MIDI DISTRIBUTION BLOCK 70V

NEW
IP69K

The MDB5 is a sealed high current primary fuse box that can be placed in the battery box or under hood as the first line of circuit protection and power distribution for a vehicle. It can fit 2 x MEGA and 3 x MIDI fuses. Input power can be connected using one or two input cables depending on continuous current requirement. When fitted with included seals it is IP67/69K rated providing high protection in harsh environments. Yellow tool-less latches secure the cover which acts as secondary lock to hold in cable seals even when wires are arranged for routing.

Features
• Sealed primary fusing that can be placed close to the battery in a harsh environment.
• Capability to handle fuse ratings from 23-500A and voltages up to 70V.
• Full range of fuses for applications from 12V-48V+.
• User choice of either unsealed or IP67/69K rating when fitted with included seals.
• Poke-Yoke mounting pattern for easier assembly.

Part Number	Fuse Block Description
07985003ZXS	5 Pole Fuse Block with Cover & Seal, Busbar, Nuts, Washers and Cable Seal Kit (as detailed below).

Voltage: 70VDC.
Continuous Current: 400A with two inputs or 200A with one input.
Terminal Stud Size: 3 x M5 (Midi fuse) / 2 x M8 (Mega fuse).
Input Stud Size: 2 x M8
Input Wire Size: 50mm².
Output Wire Sizes Mega: 2 positions : 16mm², 25mm², 35mm²
Output Wire Sizes Midi: 3 positions : 6-10mm², 10-16mm²
Hardware: S/S nuts & spring washers included.
Fuse Terminal Torque Mega: 32V 15±3Nm, 70V 20±1Nm
Fuse Terminal Torque Midi: 32V 6±1Nm, 70V 9±1Nm
Flammability Rating: UL94-V0
Cable Seals & Cavity Plugs Assortment: Included.
Ingress Protection Rating: IP69K with seals installed.
Seals / plugs must be installed to achieve IP66 rating. Please ensure seal flange is completely pressed through the hole to ensure a good seal on the inside of the block as shown in the image.
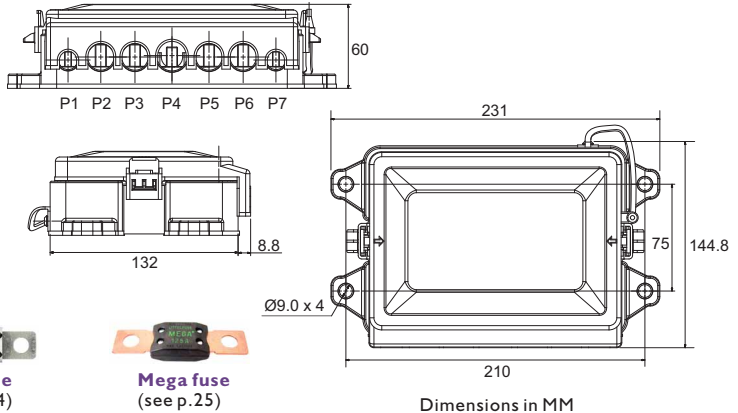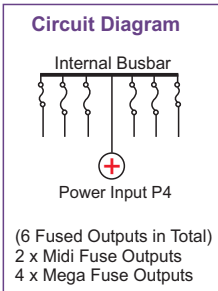**Temperature Rating:** -40 °C to +105 °C
Notes: A cavity plug is required for each opening that is not fitted with a cable & cable seal. Cable seals and cavity plugs must be fully pressed into block. Fuses are not included.
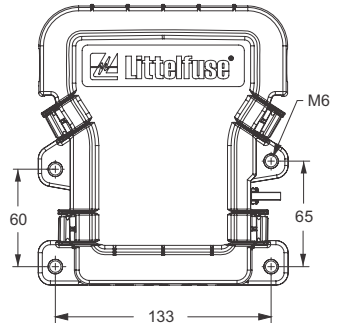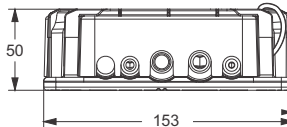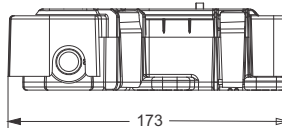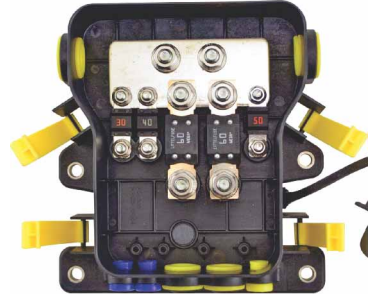
Included Cable Seal Kit:
2 x Input Cable Seal 50mm²
1 x Input Cavity Plug
2 x Output Seal Mega 35mm²
1 x Cavity Plug Mega
3 x Output Seal Midi 10-16mm²
1 x Cavity Plug Midi

173
50
153
M6
60
65
133

RELATED PRODUCTS:

32V Midi Fuse
(see p.24)

58V Midi Fuse
(see p.24)

32V Mega Fuse
(see p.25)
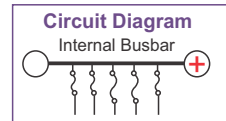
70V Mega Fuse
(see p.25)

Circuit Diagram
Internal Busbar

4 X AUTO FUSE & 3 X MIDI FUSE PDM

TERRA POWER SYSTEMS

Littelfuse®

NEW
IP59K

Protect high and low-amp circuits with this PDM. Holds 3 x MIDI fuses and 4 x Auto fuses. The Auto fuse output circuits are wired to an integrated sealed 4-way connector (P/N: XTCK4). A common power input stud provides power for the 7 fuses via a tin-plated copper busbar. Stainless steel studs & hardware provide superior corrosion resistance.

Part Number	Description
880073	Power Dist Module 350A
XTCK4	4 Way Connector Plug Kit

Voltage: 32VDC (limited by fuses).
Maximum Continuous Current : 350A.
Max Fuse Rating Per Circuit (Midi): 170A.
Max Fuse Rating Per Circuit (Auto): 30A.
Module Contents: Includes cover with gasket.
IP Rating: IP59K **Dimensions:** 152 x 102 x 45mm
Notes: Auto fuses & Midi fuses not included.

4 Way Connector Plug Kit (P/N: XTCK4)

M8 Stud Input

RELATED PRODUCTS:

Auto fuse 32V & 58V (see page 16-17)

Midi fuse 32V & 58V (See page 24)

Scan this QR Code for more information

QR Code: 9017

4 X AUTO FUSE & 3 X MIDI FUSE PDM

TERRA POWER SYSTEMS

Littelfuse®

NEW
IP59K

The 880076 SL series integrated fuse block is designed to power to 3 x switched high-amp circuits using either a remote switch or the manual switch on the block. This block also includes 4 x low-amp always- on circuits to power loads like clock, alarms etc. All 7 x output circuits are fuse protected. Power is output via 3 studs (high-amp circuits) or a single 4 wire connector (low-amp circuits).

Part Number	Description
880076	Power Dist Module with Remote & Manual On/Off Switch
880092	Illuminated Remote Control Switch SPDT (On)Off(On)
MX150FK6	6 Way Remote Switch Connector Kit. Terminals included.
XTCK4	4 Way Plug Connector Kit. Terminals included.

Voltage: 32VDC (limited by fuses).
Switch Continuous Ampere Rating: 300A at 85°C, 240A at 105°C
Switch Cranking Rating: 10 sec. 1000A
Max Operating Ampere Per Block: 240A (Midi fuse), 50A (Auto fuse)
Max Operating Ampere Per Circuit: 170A (Midi fuse), 20A (Auto fuse)
Fuse Ampere Ratings: 30A-200A (Midi fuse), 1A-20A (Auto fuse)
Studs: Tin-plated copper, M8 x 1.25
Midi Fuse Screws: M5 x .8 x 10
Hardware: Stainless steel
Operating Temperature: -50°C to 105°C
Module Contents: Includes cover with gasket.
Mounting: Mount as close as possible to the battery, but not above vented lead acid batteries. Mount in a dry protected location. Where possible mount in a vertical orientation. Do not mount upside down.
IP Rating: IP59K / IP66
Ignition Protected: SAE J1171, ISO 8846
Dimensions (LxWxH): 146 x 122 x 73mm
Notes: Auto fuses, Midi fuses and connectors are not included.

Power Distribution Module (P/N: 880076)

Remote Control Switch (P/N: 880092)

6 Way Remote Switch Connector Kit (P/N: MX150FK6)

4 Way Plug Connector Kit (P/N: XTCK4)

Scan this QR Code for more information

QR Code: 9036

RELATED PRODUCTS:

Auto fuse 32V & 58V (see page 16-17)

Midi fuse 32V & 58V (See page 24)

POWER DIST.

116

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6 X AUTO FUSE & 4 X MIDI FUSE PDM

TERRA POWER SYSTEMS

Littelfuse

Protect high and low-amp circuits via single power input stud with a collection point for ground returns. Ignition protected fuse block with screw termination.
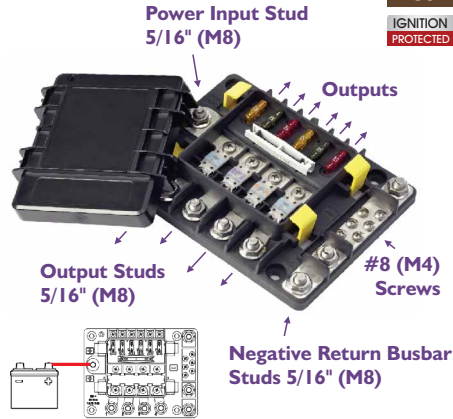
NEW

IP59K

IGNITION PROTECTED

Features:

• 600A Continuous Current Rating. 10 Fuse Output Circuits.
• One common power input stud feeds power to all fuses.
• Protects up to 4 high-amp and 6 low-amp circuits,
  (30A-200A MIDI® fuses and 1A-40A ATO® fuses).
• Negative bus provides common location for ground returns.
• Eliminates battery-box clutter, saves space & reduces cost.

Part Number	Description
880089	Power Dist Module 600A

Voltage: 60VDC (limited by fuses).
Max Total Continuous Current : 600A.
Max Cont. Current Per Circuit: 170A (Midi) / 30A (Auto).
Module Contents: Includes fuse puller, cover & gasket.
IP Rating: IP59K
Dimensions: 165 x 127 x 51mm.
Notes: Auto fuses & Midi fuses not included.

Power Input Stud 5/16" (M8)

Outputs

Output Studs 5/16" (M8)

#8 (M4) Screws

Negative Return Busbar Studs 5/16" (M8)

RELATED PRODUCTS:

Auto fuse 32V & 58V (see page 16 - 17)

Midi fuse 32V & 58V (See page 24)

Scan this QR Code for more information

QR Code: 9021

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6 X AUTO FUSE & 4 X MIDI FUSE PDM

TERRA POWER SYSTEMS

Littelfuse

Protect high and low-amp circuits via a Midi Fuse with a collection point for ground returns. Ignition protected fuse block with screw termination.

NEW

IP59K

IGNITION PROTECTED

Features:

• 170A Continuous Current Rating. 9 Fuse Output Circuits.
• Common power input fed via a MIDI Fuse to power to all fuses.
• Protects up to 3 high-amp and 6 low-amp circuits,
  (30A-200A MIDI® fuses and 1A-40A ATO® fuses).
• Negative bus provides common location for ground returns.
• Eliminates battery-box clutter, saves space & reduces cost.

Part Number	Description
880094	Power Dist Module 170A

Voltage: 60VDC (limited by fuses).
Max Total Continuous Current : 170A (200A MIDI fuse fitted).
Max Cont. Current Per Circuit: 170A (Midi) / 30A (Auto).
Module Contents: Includes fuse puller, cover & gasket.
IP Rating: IP59K
Dimensions: 165 x 127 x 51mm.
Notes: Auto fuses & Midi fuses not included.

Outputs

Output Studs 5/16" (M8)

#8 (M4) Screws

Negative Return Busbar Studs 5/16" (M8)

RELATED PRODUCTS:

Auto fuse 32V & 58V (see page 16 - 17)

Midi fuse 32V & 58V (See page 24)
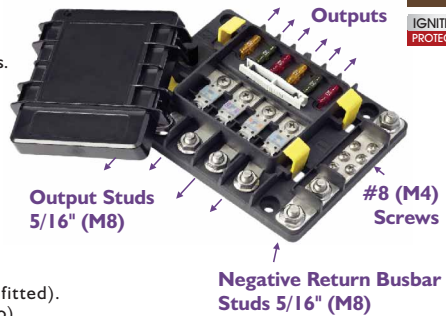
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QR Code: 9044

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FUSED BATTERY DISTRIBUTION UNIT 3 WAY

MTA

NEW
IP22

Features:
• Suits 2 x Midi fuses and 1 x Mega fuse or Powerval fuse.
• Includes durable hinged cover with common bus.
• Cable feeds through slots in the housing.
• Double ring (19mm) connection to positive top post battery terminal.
• Saves money by using one product that does the same as a battery terminal, terminated cable and a fuse box.

Part Number	Description
0300839	1 x Mega Fuse + 2 x Midi Fuses

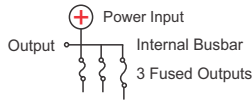**Voltage:** 32V
Rating: Contact sales.
Pack Size: 1, 10, 20
Notes: Fuses are not included.

Circuit Diagram
Power Input
Output — Internal Busbar
3 Fused Outputs

FUSED BATTERY DISTRIBUTION UNIT 4 WAY

MTA

NEW
IP22

Features:
• Suits 4 x Midi fuses with common bus.
• Includes clip on cover.
• Cable feeds through slots in the housing.

Part Number	Description
0300552	4 x Midi Fuses

Voltage: 32V **Rating:** 120A
Pack Size: 1, 10, 20
Notes: Fuses are not included.

Circuit Diagram
Internal Busbar
Power Input — Output
4 Fused Outputs
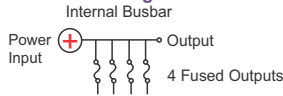
FUSED BATTERY DISTRIBUTION UNIT 6 WAY PLUS

MTA

NEW
IP53

Features:
• Includes durable splash proof clip-on cover.
• Cable feeds through slots in the housing.
• Suits 2 x Mega and 4 Midi fuse positions with common bus.
• Can house 1 x MTA modular fuse / relay module accessory.
• Can house 5 x MTA Mini fuse housing accessories.

Part Number	Description
0301873	4 x Midi Fuses + 2 x Mega Fuses

Voltage: 32V **Rating:** 150A
Pack Size: 1, 10, 20
Note: BDU includes 4 x M5 nuts with nylon insert, 2 x M8 nuts, 1 x M8 washer, busbar & housing.
Mini Fuses, Modules and Mini Fuse housings are not included.

Fuse / Relay Module

Mini fuse Housings
x3
x2

Circuit Diagram
Internal Busbar
Power Input
6 Fused Outputs
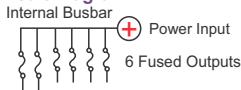
RELATED PRODUCTS:

Mini Fuses (see p.15)

Midi fuse (See p.24)

Mega fuse (See p.25)

Relays (See p.164-168)

Fuse / Relay Modules (See p.138)

Mini Fuse Housing & F280 Terminals (See p.86)

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Littelfuse

IP67

Features:
• Accommodates low to medium current fuses. Amperage range 2 A to 60A.
• Accommodates 2 x Mini fuses (fast acting) and 2 x Jcase fuses (slow acting).
• Internal bussing. One input connection to power four fuse circuits.
• Secondary locks are included to secure each wire terminal in the holder.
• The holder is a sealed module enabling it to be used in heavy duty environments.

Voltage: 32VDC   **Temperature Rating:** -40°C to +85°C.
Rating: 100A at 23°C, 70A at 85°C.
Fuses not to exceed 70% of rated current continuously.
Body & Cover: Black thermoplastic UL 94V-0.
Mounting: Screw mount M6 (torque: 6-8Nm).
Cover Gasket: Green silicone. **Ingress Protection Rating:** IP67
When cover, cable seals & cavity plugs are installed.
Input Stud: M6 zinc plated steel (torque: 6-8Nm)
Terminal Ratings: 30A max per terminal (Mini fuse).
                    60A max per terminal (Jcase fuse).
Cable Seals: Please check the overall diameter of your cable before ordering cable seals.
Cavity Plugs: Required to fill unused output cavities for ingress protection.
Terminal Tools: Terminal crimping & removal tools p.185-186.
Secondary Locks: PA66 (TPA's included).
Notes: Terminals, cable seals, cavity seals & fuses are not included.
Mini bladed circuit breakers are not suitable for use in this product.
Approvals: RoHS

PDM Module
BPDMA104HXF1

Input Bus M6   **Cover**
Bracket   **TPA**

PDM Module & Terminal Kit
PDMKIT101

Part Number	Module & Terminal Kit Contents;
PDMKIT101	Base, Cover, Seal, Bracket, 3 x TPA's, Terminals (2 x 12129493, 2 x 15344631), Cable Seals (2 x 15324980, 2 x 15324994), Plugs (1 x 12010300, 1 x 12059255).

Part Number	Module Contents;
BPDMA104HXF1	PDM Module includes: Base, Cover, Seal, Bracket and 3 x TPA's only.

Four fused outputs.
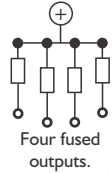
ACCESSORIES TO SUIT MINI FUSES: Delphi Metri-Pack 280

TERMINALS: TANGED
Female Sealed - Tin Brass / Tin Plated

Part Number	Wire (AWG)	Wire (mm²)
12084201	#22 - #20	0.35 - 0.5
12077411	#18 - #16	0.80 - 1.0
12129493	#14 - #12	2.0 - 3.0
12077413	#10	5.0

CABLE SEALS:
Silicone

Part Number	Cable Dia.(mm)	Colour
15324983	1.70 - 1.29	Dark Red
15324982	2.85 - 2.03	Green
15324980	3.49 - 2.81	Grey
15324981	4.30 - 3.45	Blue

CAVITY PLUG:
Silicone

Part Number
12010300

ACCESSORIES TO SUIT JTF FUSIBLE LINKS: Delphi Ducon 6.3

TERMINALS:
Male Sealed - Tin Brass / Tin Plated

Part Number	Wire (AWG)	Wire (mm²)
15344632	#16 - #14	1.5 - 2.5
15344631	#12 - #10	4.0 - 6.0

CABLE SEALS:
Silicone

Part Number	Cable Dia. (mm)	Colour
15324997	2.40 - 1.60	Tan
15324995	2.90 - 2.00	Dark Red
15324994	3.80 - 2.80	Grey
15324996	4.50 - 3.60	Blue

CAVITY PLUG:
Silicone

Part Number
12059255

RELATED PRODUCTS:

Mini Fuse
(see p.15)

Jcase Fuse
(see p.21)

Terminal Removal Tool
(see p.186)

Scan this QR Code for more information

QR Code: 9003

POWER DIST.

EAT•N **Bussmann**

IP66

This module can be fitted with a mixture of 280 style components such as Mini fuses, mini circuit breakers, mini diodes, mini resistors and ISO 280 relays. It's compact size means it can be installed anywhere thereby eliminating excessive wiring in harnesses.

Voltage: 32V **Temperature:** -40°C to +125°C
Rating: 120A max* (100A when following SAE guidelines)
Combined maximum current of positions 1 & 2 is 60A for fuses / 30A for circuit breakers. The same applies for positions 3 & 4.
Module is rated 50A max when fitted with an ISO 280 micro relay.
*Please contact sales for max amperage guidelines
Module Contents: Module includes cover, base with seal & bracket.
Terminal Capacity: 8 terminals on a layout matrix of (2 x 4).
Terminals: Delphi Metri-Pack 280 Female Sealed TANGED.
Cover: 94V0 Clear Polycarbonate. Short or tall cover options.
Base: 94V0 Thermoplastic black. Other colour also available.
Bracket Option: Side B028-7013, End B028-7015, Pin B028-7016.
Ingress Protection Rating: IP66 (Valid when properly installed with cover, cable seals and cavity plugs).
Cavity Plugs: Required to fill unused output cavities for ingress protection. Silicone material UL94-V0.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals. Silicone material UL94-V0.
Terminal Tools: Terminal crimping & removal tools page 185-186.
Pack Size: 1, 10, 100
Notes: Fuses, circuit breakers and relays are optional extras.

PDMKITALS1, Tall Cover PDM Kit

Mini Fuses Installed

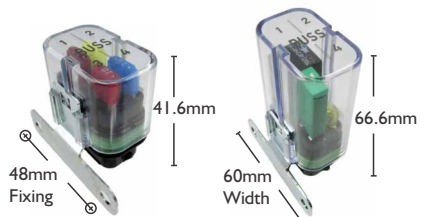**Ultra Micro Relay, Mini Fuse & Breaker**

Part Number	Kit Contents:
PDMKITALS1	Tall Cover*, Base, Side Bracket, 8 x 3.0mm^2 Terminals, 8 x Seals, 4 x Plugs & TPA **NEW**
PDMKITASS1	Short Cover, Base, Side Bracket, 8 x 3.0mm^2 Terminals, 8 x Seals, 4 x Plugs & TPA **NEW**

Part Number	Description
CFH-ALS	Tall Clear Cover*, Base and Side Bracket
CFH-ALE	Tall Clear Cover*, Base and End Bracket **NEW**
CFH-ASS	Short Clear Cover, Base and Side Bracket
CFH-ASE	Short Clear Cover, Base and End Bracket **NEW**
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm^2
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm^2
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm^2
12077413	Terminal Female (#10AWG), 5.0mm^2
15324983	Cable Seal Dark Red, 1.70 - 1.29mm Cable Dia.
15324982	Cable Seal Green, 2.85 - 2.03mm Cable Dia.
15324980	Cable Seal Grey, 3.49 - 2.81mm Cable Dia.
15324981	Cable Seal Blue, 4.30 - 3.45mm Cable Dia.
12010300	Cavity Plug Green, 6.7mm Cavity inside Dia.
32006-TP2	Secondary Lock (TPA). Secures Terminals.

Component Loading Options:
• 4 x Mini fuses or Mini Blade circuit breakers or combination.
• 2 x Ultra Micro 280 Relays (4 pin only).
• 1 x Micro 280 Relay (4 or 5 pin).
• 2 x Mini fuses or Mini Blade circuit breakers or combination & 1 x Ultra Micro 280 Relay (4 pin only).
Note: *Tall cover is required when fitting relays & breakers.

Short Cover Side Bracket

Tall Cover Side Bracket

41.6mm

66.6mm

48mm Fixing

60mm Width

Short Cover End Bracket

Tall Cover End Bracket

RELATED PRODUCTS:

Mini Fuses, Mini Resistors, Mini Diodes, Mini Shunts & Mini Blade Circuit Breakers.

ISO 280 Relays, Ultra Micro & Micro, 12VDC or 24VDC.

Tanged Cables, Tanged Jumpers, Splice Connectors.

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QR Code: 9010

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POWER DIST.

Littelfuse®

IP69K **IP67**

The HWB12 series is a 12 position power distribution module providing a compact, durable and sealed power distribution solution for the transportation market. This unit is designed for 280 style components such as Mini blade fuses, Mini circuit breakers, 280 Relays, Mini diodes etc. with 2.8mm blades on 8.1mm centerline spacing.

Module Contents: Module includes clear cover, base, cover seal, straight mounting bracket and 3 secondary terminal locks (TPA's).
Accessory Components: Terminals, cable seals & cavity plugs, mini fuses, mini blade circuit breakers, ISO 280 ultra micro and ISO 280 micro relays.
Terminal Capacity: 12 terminals on a layout matrix of (2 x 6).

Voltage Rating: 58VDC
Maximum Continuous Current: 130A
Maximum Fuse Rating: 30A per circuit.
Temperature Rating: -40°C to +105°C.
Housing: PA66 GF30, Black, UL 94 V-0
Cover: Clear UL94 V-2   **Cover Seal:** Silicone, green.
Cover must be oriented correctly in order to secure yellow tabs.
Mounting Bracket: Plated steel - straight (standard).
Wire Size: #22 - #13 AWG (0.35 to 2.5mm^2).
Ingress Protection Rating: IP67 / IP69K when cover,
 cable seals & cavity plugs are installed.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals.
Terminals: Tyco AMP MCP 2.8, Female Copper Nickel / Tin Plated.
Terminal Tools: Terminal crimping & removal tools refer p.185-186.
Options: 30 deg. angled mounting bracket, black cover, cover tether and foam relay retention inserts.
Note : It is recommended that one foam insert be ordered for each relay & installed onto the inside of the cover as a retention device.
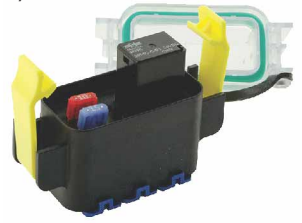
PDM Module & Terminal Kit
PDMKIT331

Part Number	Kit Contents;
PDMKIT331	Module Base, Clear Cover, Straight Bracket, 3 x TPA's, **NEW**
	12 x 2.5mm^2 Terminals, 12 x Cable Seals & 4 x Cavity Plugs.

| Part Number	Description
PDM33003ZXM	PDM Module, Clear Cover, Straight Bracket, 3 x TPA's.
1-968875-1	Terminal Female (#20 - #16AWG), 0.5 - 1.0mm^2
1-968876-1	Terminal Female (#16 - #14AWG), 1.5 - 2.5mm^2
828904-1	Cable Seal Blue Silicone, 1.2 - 2.1mm Cable Dia.
828905-1	Cable Seal White Silicone, 2.2 - 3.0mm Cable Dia.
828922-1	Cavity Plug Clear Silicone, 5.6mm Cavity inside Dia.
901-327	Foam Relay Retention Insert (optional).
868-068	Angled Bracket 30 Degree (optional).
890009470	Cover Tether (optional).

Mounting Hole ⌀6.5

67

Straight Bracket Fitted
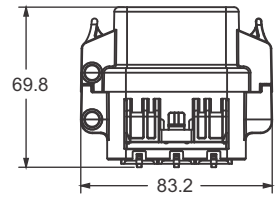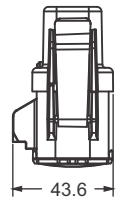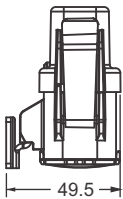
49.5

43.6

69.8

83.2

Dimensions in MM

RELATED PRODUCTS:

Mini Fuses, Mini Resistors, Mini Diodes, Mini Shunts & Mini Blade Circuit Breakers.

Ultra Micro 280 Relays 4 Pin, Micro Relays 280 4 & 5 Pin. 12VDC or 24VDC.

Scan this QR Code for more information

QR Code: 9025

POWER DIST.

Littelfuse®

The HWB18 series is an 18 position power distribution module providing a compact, durable and sealed power distribution solution. This unit is designed for 280 style components such as mini blade fuses, circuit breakers, relays, diodes etc. with 2.8mm blades on 8.1mm centerline spacing.

PDM Module Kit Contents: Module kit includes cover, cover seal, base, mounting bracket 30°angled and 3 secondary terminal locks (TPA's).
Accessory Components: Terminals, cable seals & cavity plugs, mini fuses, mini blade circuit breakers, Ultra micro 280 & Micro 280 relays.
Terminal Capacity: 18 terminals on a layout matrix of (3 x 6).
Terminal Rating: 30A max per terminal. **Maximum Fuse Rating:** 30A
Maximum Total Continuous Current: 100A @ 23°C , 70A @ 85°C
Voltage Rating: 58VDC Max. **Temperature Rating:** -40°C to +105°C.
Body & Cover: Black UL 94V-0 glass filled thermoplastic.
Body Seal: Silicone.
Mounting Bracket: Plated steel - 30°angled (standard).
Ingress Protection Rating: IP67 / IP69K when cover, cable seals and cavity plugs are installed.
Wire Size: #22 - #10 AWG (0.35 to 5mm^2).
Cavity Plug: Required to fill unused output cavities for ingress protection.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals.
Terminals: Delphi Metri-Pack 280 Female Sealed TANGED.
Terminal Tools: Terminal crimping & removal tools see page 185-186.

PDM31001ZXM Module

PDMKIT311 - PDM Terminal Kit

Part Number	Kit Description
PDMKIT311	Kit - Module Base, Cover, 30° Bracket, 3.0mm^2 Terminals, Cable Seals, Cavity Plugs & TPAs.
PDMKIT312	Kit - Module Base, Cover, 30° Bracket, 2.0mm Pre-terminated Cables, 2.0mm Jumpers & TPA's.

Part Number	Description
PDM31001ZXM	PDM Module Base, Cover, 30° Angled Bracket.
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm^2
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm^2
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm^2
12077413	Terminal Female (#10AWG), 5.0mm^2
15324983	Cable Seal Dark Red, 1.70 - 1.29mm Cable Dia.
15324982	Cable Seal Green, 2.85 - 2.03mm Cable Dia.
15324980	Cable Seal Grey, 3.49 - 2.81mm Cable Dia.
15324981	Cable Seal Blue, 4.30 - 3.45mm Cable Dia.
12010300	Cavity Plug Green, 6.7mm Cavity inside Dia.
868-068	30° Angled Bracket (Spare Part).

PDMKIT312 - PDM & Cable Kit
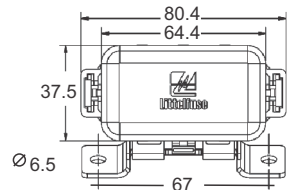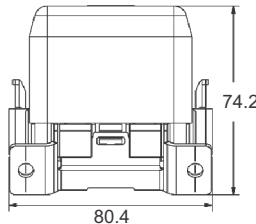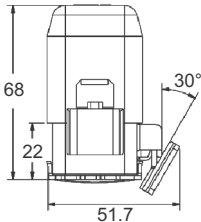
68
30°
22
51.7

74.2
80.4

80.4
64.4
37.5
Ø 6.5
67

Dimensions in MM

RELATED PRODUCTS:

Mini Fuses, Mini Resistors, Mini Diodes, Mini Shunts & Mini Blade Circuit Breakers.

Ultra Micro 280 Relays, Micro 280 Relays. 12VDC or 24VDC.

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POWER DIST.

PDM SEALED MODULE - 60 POSITION

Littelfuse®

NEW
IP69K **IP67**

The Littelfuse HWB60-AL (Assured Latch) features 60 open positions with no internal bussing. It is designed for use with 280 style components i.e. Mini fuses, Mini Circuit Breakers, Mini Diodes / Resistors, Ultra Micro 280 Relays, Micro 280 Relays, Mini 280 Relays, 280 Flashers.

Terminal Capacity: 60 terminals on a layout matrix of (5 x 12).
Terminal Rating: 30A max per terminal.
Maximum Fuse Rating: 30A
Maximum Total Continuous Current: 250A
Voltage Rating: 58VDC Max.
Wire Size: #22 - #10 AWG (0.35 to 5mm^2).
Temperature Rating: -40°C to +125°C.
Base & Cover: PA66 30% GF.   **Cover Gasket:** Silicone.
Mounting: 4 holes for M6 bolts (4 - 6Nm max torque).
Terminals: Delphi Metri-Pack 280 Female Sealed TANGED.
Cavity Plugs: Fill unused output cavities for ingress protection.
Cable Seals: Check the overall diameter of your cable before ordering cable seals.
Ingress Protection Rating: IP67 / IP69K when cover, cable seals and cavity plugs are installed.
Options: Cover tether. Accessory to hold a fuse puller & spare fuses. Internal cover grid to aid relay retention.
Feature: Gang mount feature interconnects multiple modules side-by-side.
Interlocks with Littelfuse Auto fuse block, Midi-Flex fuse block, Mega-Flex fuse block and FLEC.
Base Features: Internal storage for 8 spare fuses. Terminal position numbering on underside of base.
Terminal Tools: Terminal crimping & removal tools see page185-186. **Notes:** Fuses and relays are not included.

Part Number	PDM Kit Description;
PDMKIT711	Module, Terminals (60 x 12129493), Cable Seals (60 x 15324980) and Plugs (10 x 12010300).
PDMKIT712	Module, Pre-terminated Cables 2.0 x 300mm (30pcs x Red & 30pcs x Blue), Pre-terminated Jumpers Red (5pcs), Butt Connectors (60pcs) & Cavity Plugs (10pcs).

Part Number	Description
PDM71003ZXM	PDM Module Base, Cover and 6 x TPA's. No accessories.
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm^2
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm^2
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm^2
12077413	Terminal Female (#10AWG), 5.0mm^2
15324983	Cable Seal Dark Red Silicone, 1.70 - 1.29mm Cable Dia.
15324982	Cable Seal Green Silicone, 2.85 - 2.03mm Cable Dia.
15324980	Cable Seal Grey Silicone, 3.49 - 2.81mm Cable Dia.
15324981	Cable Seal Blue Silicone, 4.30 - 3.45mm Cable Dia.
12010300	Cavity Plug Green Silicone, 6.7mm Cavity inside Dia.

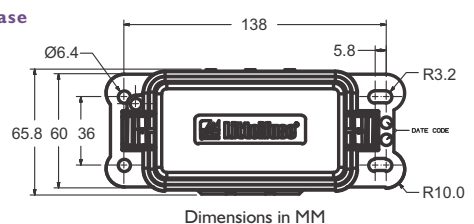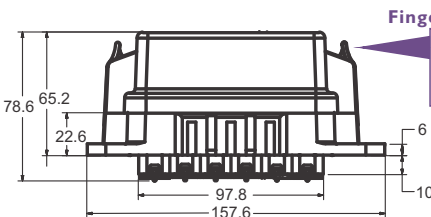**Scan this QR Code for more information**

QR Code: 9028

PDMKIT711 - PDM Terminal Kit

PDMKIT712 - PDM Cable Kit

Finger Release

78.6
65.2
22.6
6
10
97.8
157.6

138
5.8
Ø6.4
R3.2
65.8 60 36
DATE CODE
R10.0

Dimensions in MM

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123

POWER DIST. MODULE SEALED - 24 POSITION

The FRH-A24 series module is a 24 position power distribution module providing a compact, durable and sealed power distribution solution for the transportation market. This module can be fitted with a mix of 280 style components such as Mini fuses, mini circuit breakers, mini diodes, diode keys, mini resistors, ISO 280 Ultra Micro and ISO 280 Micro relays.

NEW
IP66

Voltage Rating: 32VDC
Terminal Capacity: 24 terminals on a layout matrix of (4 x 6).
Terminal Rating: 20A continuous, 30A intermittent.
Terminals: Delphi Metri-Pack 280 Female Sealed TANGED.
Temperature Rating: -40°C to +125°C.
Housing: Black thermoplastic.   **Seal:** Silicone, red.
Mounting Bracket: Stainless steel, straight with anti-rotation tab.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals. Silicone material UL94-V0.
Cavity Plugs: Required to fill unused output cavities for ingress protection. Silicone material.
Ingress Protection Rating: IP66.
Terminal Tools: Terminal crimping & removal tools available.
Module Accessories: Optional 90 degree mounting bracket.
Components: Mini fuses, mini circuit breakers and ISO 280 relays are not included with the kit.
Approvals: RoHS

Part Number	Kit Contents:
PDMKIT424	Base, Cover, Seal, Bracket, 2 x TPA's, 1 x CPA, Terminals (26 x 12129493), Seals (26 x 15324980), Cavity Plugs (6 x 12010300).

Part Number	Description
FRH-A24	PDM Housing Black and Seal Red. 24 Position.
FRH-A24-C	PDM Cover Black
FRH-A-CPA	PDM CPA Blue Cover Position Assurance.
FRH-A12-MB-A2	Flat Bracket Anti-Rotation Tabs Stainless Steel.
FRH-A12-T	TPA Terminal Position Assurance, 2pcs Required
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm^2
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm^2
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm^2
12077413	Terminal Female (#10AWG), 5.0mm^2
15324983	Cable Seal Dark Red, 1.70 - 1.29mm Cable Dia.
15324982	Cable Seal Green, 2.85 - 2.03mm Cable Dia.
15324980	Cable Seal Grey, 3.49 - 2.81mm Cable Dia.
15324981	Cable Seal Blue, 4.30 - 3.45mm Cable Dia.
12010300	Cavity Plug Green, 6.7mm Cavity inside Dia.
PDM-TK	Diode Key Red.

TPA

PDMKIT424 - PDM & Terminal Kit

RELATED PRODUCTS:

Mini Fuses and Circuit Breakers, Mini Resistors and Shunts, Mini Diodes and Diode Keys.

Ultra Micro, Micro & Mini ISO 280 Relays, 12VDC or 24VDC.

Tanged Pre-Terminated Cables
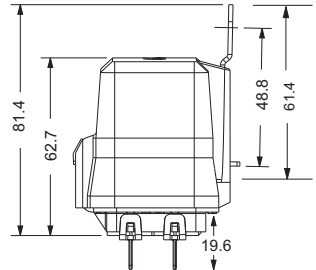**Tanged Pre-Terminated Jumpers**
Butt Splice Connectors.
(see p.186)

81.4
62.7
48.8
61.4
19.6

Dimensions are in MM

61.3
54.5
6.0
57.5

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POWER DIST.

POWER DIST. MODULE SEALED - 48 POSITION

GEP POWER PRODUCTS

NEW
IP66

This 48 position power distribution module provides compact, durable and sealed main power or auxiliary power for the transportation market. PDM's interlock to allow for growth. This high density module can be fitted with a mix of 280 style components such as Mini fuses, mini circuit breakers, mini diodes, diode keys, mini resistors, ISO 280 Ultra Micro and ISO 280 Micro relays.

Voltage Rating: 32VDC
Terminal Capacity: 48 terminals on a layout matrix of (4 x 12).
Terminal Rating: 30A per terminal.
Terminals: Delphi Metri-Pack 280 Female Sealed TANGED.
Temperature Rating: -40°C to +125°C.
Housing: Black thermoplastic.   **Seal:** Silicone, blue.
Mounting: Top mount with insert. Side mount also available.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals. Silicone material UL94-V0.
Cavity Plugs: Required to fill unused output cavities for ingress protection. Silicone material.
Ingress Protection Rating: IP66.
Terminal Tools: Terminal crimping & removal tools available.
Components: Mini fuses, breakers and relays are not included.
Approvals: RoHS

48 Way PDM: PDM-R3AC1

Part Number	Description
PDM-R3AC1	PDM Housing, Cover, Seal, Red. 48 Position.
PDM-TT1	TPA Terminal Position Assurance, 6pcs Required
PDM-SCT	PDM Tether Black
PDM-TK	PDM Diode Key Red
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm^2
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm^2
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm^2
12077413	Terminal Female (#10AWG), 5.0mm^2
15324983	Cable Seal Dark Red, 1.70 - 1.29mm Cable Dia.
15324982	Cable Seal Green, 2.85 - 2.03mm Cable Dia.
15324980	Cable Seal Grey, 3.49 - 2.81mm Cable Dia.
15324981	Cable Seal Blue, 4.30 - 3.45mm Cable Dia.
12010300	Cavity Plug Green, 6.7mm Cavity inside Dia.

TPA: PDM-TT1
Secures 8 Positions

TETHER: PDM-SCT
Links Cover with Base

ACCESSORIES: Delphi Metri-Pack 280
TERMINALS: TANGED
Female Sealed, Tin Brass / Tin Plated

CABLE SEALS: Silicone
CAVITY PLUG: Silicone

DIODE KEY
PDM-TK

RELATED PRODUCTS:

Mini Fuses, Mini Resistors, Mini Transorbs and Mini Blade Circuit Breakers.

Ultra Micro, Micro & Mini ISO 280 Relays, 12VDC or 24VDC.

Diode key drops into PDM base slot as pictured.

Tanged Pre-Terminated Cables
Tanged Pre-Terminated Jumpers
Butt Splice Connectors.
(See page 186)

Terminal & Seal Assortment Kits.
TERMKIT002
(See page 187)

Crimping Tool & Terminal Removal Tool.
(see page 185 - 186)

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POWER DIST. MODULE SEALED - 72 POSITION

GEP POWER PRODUCTS

This sealed, compact and rugged module is an excellent power distribution solution for marine, construction, agriculture, heavy trucking, and specialty vehicle industries. It accommodates 72 terminal positions to provide component flexibility for the increasing demands of modern electrical systems.

Voltage Rating: 32VDC
Output Rating: 30A max per terminal.
Terminal Capacity: 72 terminals on a layout matrix of (6 x 12) suited to 2.8mm blades on 8.1mm centerline spacing.
Components: Accepts Mini fuses, Mini bladed circuit breakers, ISO 280 Micro relays and ISO 280 Flashers.
Mounting: Top mount: 2 x M6 threaded insert clips.
Side mount: 2 x 10.5mm holes.
Block & Cover: Thermoplastic, black PBT Polyester. **Cover Seal:** Silicone.
Ingress Protection Rating: IP66
(Valid when properly installed with cover, cable seals and cavity plugs).
Wire Size: #22 - #10 AWG / 0.35mm² - 5mm²
Cavity Plugs: Required to fill unused output cavities for ingress protection.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals.
Terminal Tools: Terminal crimping & removal tools available.
Temperature Rating: -40°C to +125°C (Module only)
Ordering: Block is supplied with cover only.
Not Included: Terminals, cable seals, cavity plugs or mounting screws. Module does not include any plug-in components such as fuses, circuit breakers, relays etc.
Feature: Gang mount feature. Interconnect multiple modules side-by-side.
Options: Custom labels and kits.
Approvals: RoHS

Top View

Rear View

TPA: PDM-ST1
Secures 12 Positions

TETHER: PDM-SCT
Links Cover with Base

Part Number	Description
PDM-S3AC1	PDM Top Mount with Threaded Inserts, Seal & Plain Cover
PDM-SCT	Tether Black Flexible.
PDM-ST1	TPA Terminal Position Assurance. 6pcs Required Per Unit
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm²
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm²
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm²
12077413	Terminal Female (#10AWG), 5.0mm²
15324983	Cable Seal Dark Red, 1.70 - 1.29mm Cable Diameter
15324982	Cable Seal Green, 2.85 - 2.03mm Cable Diameter
15324980	Cable Seal Grey, 3.49 - 2.81mm Cable Diameter
15324981	Cable Seal Blue, 4.30 - 3.45mm Cable Diameter
12010300	Cavity Plug Green, 6.7mm Cavity inside Diameter
PDM-TK	Diode Key Red

ACCESSORIES: Delphi Metri-Pack 280
TERMINALS: TANGED
Female Sealed, Tin Brass / Tin Plated
CABLE SEALS: Silicone
CAVITY PLUG: Silicone

Scan this
QR Code
for more
information

QR Code: 9034

RELATED PRODUCTS:

Mini Fuses, Breakers, Mini Transorbs, Mini Diodes, Mini Shunts & Diode Keys.

ISO 280 Relays Ultra Micro, Micro & Mini. 12VDC or 24VDC.

Terminal & Seal Assortment Kits.
TERMKIT003
(See page 187)

Tanged Cables, Jumpers, Splice Connectors,
(see page 186)

Crimping Tool & Terminal Removal Tool.
(see page 185 - 186)

PROLEC

POWER DIST. SEALED MODULE - 96 POSITION

GEP POWER PRODUCTS

NEW
IP66

Increased power distribution requirements in today's vehicles creates the need for additional component capacity to support electrical system integrity. To meet these increasing power challenges, GEP has released a 96 terminal position module. This new sealed, compact, and rugged module offers more configuration options for transportation and off-road applications.

Voltage Rating: 32VDC
Output Rating: 30A max per terminal.
Terminal Capacity: 96 terminals on a layout matrix of (8 x 12). Suited to 2.8mm blades on 8.1mm centerline spacing.
Components: Accepts Mini fuses, Mini bladed circuit breakers, ISO 280 Micro relays and ISO 280 Flashers.
Mounting: Top mount, 10mm threaded inserts.
Other mounting holes and orientations available, contact sales.
Block & Cover: Thermoplastic, black PBT Polyester.
Cover Seal: Silicone.
Ingress Protection Rating: IP66.
(Valid when properly installed with cover, cable seals and cavity plugs).
Wire Size: #22 - #10 AWG / 0.35mm^2 - 5mm^2
Cavity Plugs: Required to fill unused output cavities for ingress protection.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals.
Terminal Tools: Terminal crimping & removal tools available.
Temperature Rating: -40°C to +125°C (Module only)
Ordering: Block is supplied with cover only.
Not Included: Terminals, cable seals, cavity plugs or mounting screws. Module does not include any plug-in components such as fuses, circuit breakers, relays etc.
Options: Custom labels and kits.
Approvals: RoHS

Part Number	Description
PDM-U3AC1	PDM Top Mount with Threaded Inserts, Seal & Plain Cover.
PDM-SCT	Tether Black Flexible.
PDM-UT1	TPA Terminal Position Assurance. 6pcs Required Per Unit.
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm^2
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm^2
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm^2
12077413	Terminal Female (#10AWG), 5.0mm^2
15324983	Cable Seal Dark Red, 1.70 - 1.29mm Cable Diameter
15324982	Cable Seal Green, 2.85 - 2.03mm Cable Diameter
15324980	Cable Seal Grey, 3.49 - 2.81mm Cable Diameter
15324981	Cable Seal Blue, 4.30 - 3.45mm Cable Diameter
12010300	Cavity Plug Green, 6.7mm Cavity inside Diameter
PDM-TK	Diode Key Red

Top View

Rear View

TPA:
Secures 16 Positions

TETHER:
Links Cover with Base

ACCESSORIES: Delphi Metri-Pack 280

TERMINALS: TANGED
Female Sealed
Tin Brass / Tin Plated

CABLE SEALS:
Silicone

CAVITY PLUG:
Silicone

Scan this QR Code for more information

QR Code: 9035

RELATED PRODUCTS:

Mini Fuses, Breakers, Mini Transorbs, Mini Diodes, Mini Shunts & Diode Keys.

ISO 280 Relays Ultra Micro, Micro & Mini. 12VDC or 24VDC.

Terminal & Seal Assortment Kits.
TERMKIT003
(See page 187)

Tanged Cables, Jumpers, Splice Connectors,
(see page 186)

Crimping Tool & Terminal Removal Tool.
(see page 185 - 186)

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POWER DIST. MODULE SEALED - 60 POSITION

EAT•N **Bussmann**

IP66

This unit features 60 open positions with no internal bussing. It is designed for use with 280 style components (i.e. Mini fuses, 280 Relays, diodes, resistors, etc.) and provides efficient power distribution in a rugged compact form with applications in marine, construction, agriculture, heavy trucking, and specialty vehicle industries.

Output Rating: 30A max per terminal.
Terminal Capacity: 60 terminals on a layout matrix of (6 x 10) suited to 2.8mm blades on 8.1mm centerline spacing.
Mounting: Includes threaded inserts #10-32 as standard (M5 optional).
Base: Features letter/number grid front & rear for easy reference of each terminal position. Black thermoplastic with red rubber gasket.
Cover: Black thermoplastic. Improved latch design & tether strap.
Cover Options: Replacement covers also available.
Shallow cover includes Gore vent (Mini fuses only) # B151-7168-1-J.
Deep cover (Mini fuses / ISO 280 relays / Mini breakers) # B151-7168-2-J.
Temperature Rating: -40°C to +125°C (PDM only).
Wire Size: #20 - #12 AWG / 0.5mm² - 2.5mm²
Ingress Protection Rating: IP66 -IEC 529 (valid only when cover, cable seals and cavity plugs are properly fitted).
Cavity Plugs: Required to fill unused output cavities for ingress protection.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals.
Terminal Tools: Terminal crimping tools (p.185).
Not Included: Terminals, cable seals, cavity plugs, mounting brackets or mounting screws. Module does not include any plug-in components.

Terminal
Cable
Terminal Seal
Cavity Plug
Housing
Tall Cover with Tether
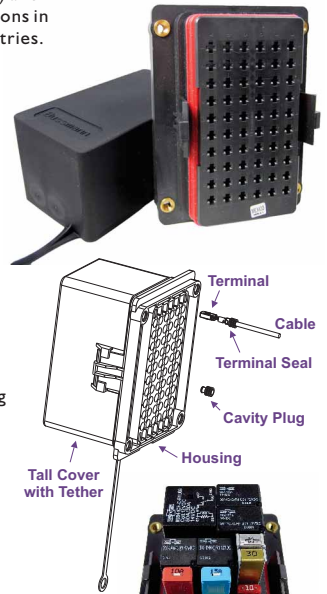
60 WAY MODULE & COVER (No Bussing):

Part Number	Block Description	Cover Inc.	Nbr Cavities
15310-1-1	30 x Mini Fuses Only	Shallow - Fuse	60
15310-1-2	Mix of 280 Components	Deep - Relay	60

ACCESSORIES:

Part Number	Description
TERMKIT004	170pc Terminal, Cable Seal & Cavity Plug Assortment Kit.
1-968875-1	Terminal Female MCP 2.8 #20 - #16AWG 0.5 - 1.0mm²
1-968876-1	Terminal Female MCP 2.8 #14 - #12AWG 1.5 - 2.5mm²
828904-1	Cable Seal Silicone Blue 1.2 - 2.1mm Diameter.
828905-1	Cable Seal Silicone White 2.2 - 3.0mm Diameter.
828922-1	Cavity Plug Silicone Clear
PROBRK008K	Mounting Brackets Stainless Steel Natural (a)
PROBRK001	Mounting Bracket Powder Coated Black (b)

ACCESSORIES: AMP MCP 2.8

Terminals:
Female With Locking Barbs
Copper Nickel / Tin plated

Cable Seals:
Silicone

Cavity Plug:
Silicone

NEW

TERMKIT004 (see p.187)

SURFACE MOUNT BRACKET OPTIONS:

(a) PROBRK008K
2pc Bracket Kit Includes Hardware.

NEW

(b) PROBRK001
1pc Bracket Kit Includes Hardware.

RELATED PRODUCTS:

Mini Fuses, Mini Resistors, Mini Diodes, Mini Shunts & Mini Blade Circuit Breakers.

Ultra Micro 280 Relays, Micro 280 Relays, Mini 280 Relays, 280 Flashers

Scan this QR Code for more information

QR Code: 9001

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POWER DIST.

MINI FUSE SEALED MODULE - 20 WAY

EA·T·N **Bussmann**

NEW **IP66**

This weatherproof 20 x Mini fuse module designed to provide fuse protected power for up to 20 circuits. The unit is powered by 2 separate power input studs, each stud powers 10 Mini fuse positions. The module can be ordered with a shallow cover to suit Mini Fuses, or with a deep cover if you want to fit Mini Blade Circuit Breakers which are taller.

Suits applications in marine, construction, agriculture, heavy trucking, specialty vehicles and 4x4 wheel drives.

This new 15305 series RTMR has new refinements but remains backward compatible and interchangeable with the original 15303 series RTMR.

20 x Mini Fuses

20 x Mini Fuses or Mini Circuit Breakers

MODULE KITS

Part Number	Description
PDMKIT-163T	20 x Mini fuse module kit with shallow cover
PDMKIT-164T	20 x Mini fuse / circuit breaker kit & deep cover

KIT CONTENTS
Both kits include the following:
1 x Module with either shallow or deep cover
1 x Medium profile bracket
4 x Bolts & washers for mounting module to bracket
5 x Terminals 0.8 - 1.0mm² (#18-16 AWG)
20 x Terminals 1.0 - 2.0mm² (#16-14 AWG)
5 x Terminals 2.0 - 3.0mm² (#14-12 AWG)
5 x Cable seals 2.03 - 2.85mm diameter cable
20 x Cable seals 2.81 - 3.49mm diameter cable
5 x Cable seals 3.45 - 4.30mm diameter cable
10 x Cavity plugs
1 x Instruction book (download via QR code)
1 x Fuse circuit identification label
Note: Fuses and circuit breakers are not included.
Please refer for page 133 for dimensions.

Scan this QR Code for more information on module kits.

QR Code: 11005

MODULES ONLY

Part Number	Block Layout	Bussing	Included Cover	Nbr of Cavities	Max Nbr of Terminals
15305-1-6-3	20 x Mini Fuse Module	Dual Fuse Buss	Shallow	20	20
15305-1-6-4	20 x Mini Fuse /Circuit Breaker Module	Dual Fuse Buss	Deep	20	20

Notes: Module includes cover and input stud caps only. Fuses, circuit breakers, terminals, seals, cavity plugs and bracket are not included. Please refer for page 133 for dimensions and accessory parts.

Front View

Rear View

Assembled with Deep Cover

Gore vent on shallow cover only

Shallow Cover (Fuses only)

Deep Cover (Fuses & Breakers)

Scan this QR Code for more information on modules only.

QR Code: 9040

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MINI FUSE, MINI / MICRO RELAY SEALED MODULE
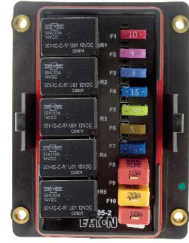
E:T·N **Bussmann**

NEW **IP66**
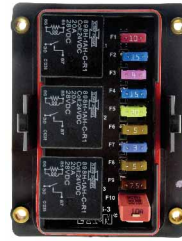
This weatherproof 5 x Micro Relays & 10 x Mini Fuse / Circuit Breaker module is designed to provide fuse protected power and relay switching. Relays and fuses can be wired together or independently of each other. All fuses are powered by a single power input stud. A secondary input stud connects all relay coil pins (86) to either Negative or Positive power via an internal buss.

Suits applications in marine, construction, agriculture, heavy trucking, specialty vehicles and 4x4 wheel drives.

This new 15305 series RTMR has new refinements but remains backward compatible and interchangeable with the original 15303 series RTMR.

5 x Micro 280 Relays
10 x Fuses / Breakers

MODULE KIT

Part Number	Description	Internal Bussing
PDMKIT-264T	5 x Relays & 10 fuses / breakers	Fuse & relay buss*

KIT CONTENTS
Both kits include the following:
1 x Module with deep cover
1 x Medium profile bracket
4 x Bolts & washers for mounting module to bracket
10 x Terminals 0.8 - 1.0mm² (#18-16 AWG)
35 x Terminals 1.0 - 2.0mm² (#16-14 AWG)
10 x Terminals 2.0 - 3.0mm² (#14-12 AWG)
10 x Cable seals 2.03 - 2.85mm diameter cable
35 x Cable seals 2.81 - 3.49mm diameter cable
10 x Cable seals 3.45 - 4.30mm diameter cable
20 x Cavity plugs
1 x Instruction book (download via QR code)
1 x Fuse / relay circuit identification label
Note: Fuses, circuit breakers & relays are not included.
Please refer for page 133 for dimensions.

Scan this QR Code for more information on module kit.

QR Code: 11005

MODULE ONLY

Part Number	Block Layout	Bussing	Included Cover	Nbr of Cavities	Max Nbr of Terminals
15305-2-6-4	5 x Micro 280 Relays and 10 x Mini Fuses / Circuit Breakers	Fuse & Relay Buss* *Input stud bussed to pin 86 on relay.	Deep	35	30

Relays: Micro ISO 280 Relays with 4 or 5 terminals (SPST / SPDT)
Notes: Module includes cover and input stud caps only. Fuses, circuit breakers, relays, terminals, seals, cavity plugs and bracket are not included. Please refer for page 133 for dimensions and accessory parts.

Front View   **Rear View**   **Assembled (Deep Cover)**

Scan this QR Code for more information on module only.

QR Code: 9040

Bussmann

NEW **IP66**

This weatherproof 3 Mini Relays or 5 x Micro Relays & 10 x Mini Fuse / Circuit Breaker module is designed to provide fuse protected power and relay switching. Relays and fuses can be wired together or independently of each other. 3 Different internal buss options: 1. All fuses are powered by a single power input stud. 2. All relay coil pins (86) bussed to either Negative or Positive power input stud. 3. No internal bussing.

Suits applications in marine, construction, agriculture, heavy trucking, specialty vehicles and 4x4 wheel drives.

This new 15305 series RTMR has new refinements but remains backward compatible and interchangeable with the original 15303 series RTMR.

5 x Micro 280 Relays
10 x Fuses / Breakers
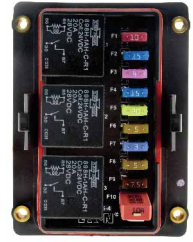
3 x Mini 280 Relays
10 x Fuses / Breakers

MODULE KITS

Part Number	Description	Internal Bussing
PDMKIT-404T	3-5 x Relays & 10 fuses /breakers	No Buss
PDMKIT-564T	3-5 x Relays & 10 fuses /breakers	Fuse Buss Only
PDMKIT-664T	3-5 x Relays & 10 fuses /breakers	Relay Buss Only*

KIT CONTENTS
Both kits include the following:
1 x Module with deep cover
1 x Medium profile bracket
4 x Bolts & washers for mounting module to bracket
55 x Terminal assortment for different wire gauges
55 x Cable seal assortment for different cable diameters
20 x Cavity plugs
1 x Instruction book (download via QR code)
1 x Fuse / relay circuit identification label
Note: Fuses, circuit breakers & relays are not included.
Please refer for page 133 for dimensions.

Scan this QR Code for more information on module kits.

QR Code: 11005

MODULES ONLY

Part Number	Block Layout	Bussing	Included Cover	Nbr of Cavities	Max Nbr of Terminals
15305-4-0-4	3-5 x Relays & 10 Fuses / Breakers	No Buss	Deep	50	45
15305-5-6-4	3-5 x Relays & 10 Fuses / Breakers	Fuse Buss Only	Deep	40	35
15305-6-6-4	3-5 x Relays & 10 Fuses / Breakers	Relay Buss Only*	Deep	45	40

*Input stud bussed to pin 86 on relay.

Relays: Micro ISO 280 Relays or Mini ISO 280 Relays with 4 or 5 terminals (SPST / SPDT)
Notes: Module includes cover and input stud caps only. Fuses, circuit breakers, relays, terminals, seals, cavity plugs and bracket are not included. Please refer for page 133 for dimensions and accessory parts.

15305-4-0-4 (No Buss)
15305-5-6-4 (Fuse Buss)
15305-6-6-4 (Relay Buss)

Front View
Rear View
Rear View
Rear View
Assembled (Deep Cover)

Scan this QR Code for more information on modules only.

QR Code: 9040

POWER DIST.

Bussmann
NEW **IP66**

This weatherproof 3 x Mini Relays & 10 x Mini Fuse / Circuit Breaker module is designed to provide fuse protected power and relay switching. Relays and fuses can be wired together or independently of each other. All fuses are powered by a single power input stud. A secondary input stud connects all relay coil pins (86) to either Negative or Positive power via an internal buss.

Suits applications in marine, construction, agriculture, heavy trucking, specialty vehicles and 4x4 wheel drives.

This new 15305 series RTMR has new refinements but remains backward compatible and interchangeable with the original 15303 series RTMR.

3 x Mini 280 Relays
10 x Fuses / Breakers

MODULE KIT

Part Number	Description	Internal Bussing
PDMKIT-364T	3 x Relays & 10 Fuses / Breakers	Fuse & Relay Buss*

KIT CONTENTS
Both kits include the following:
1 x Module with deep cover
1 x Medium profile bracket
4 x Bolts & washers for mounting module to bracket
10 x Terminals 0.8 - 1.0mm² (#18-16 AWG)
35 x Terminals 1.0 - 2.0mm² (#16-14 AWG)
10 x Terminals 2.0 - 3.0mm² (#14-12 AWG)
10 x Cable seals 2.03 - 2.85mm diameter cable
35 x Cable seals 2.81 - 3.49mm diameter cable
10 x Cable seals 3.45 - 4.30mm diameter cable
20 x Cavity plugs
1 x Instruction book (download via QR code)
1 x Fuse / relay circuit identification label
Note: Fuses, circuit breakers & relays are not included.
Please refer for page 133 for dimensions.

Scan the QR Code for more information

QR Code: 11005

MODULE ONLY

Part Number	Block Layout	Bussing	Included Cover	Nbr of Cavities	Max Nbr of Terminals
15305-3-6-4	3 x Mini 280 Relays and 10 x Mini Fuses / Circuit Breakers	Fuse & Relay Buss* *Input stud bussed to pin 86 on relay.	Deep	35	22

Relays: Mini ISO 280 Relays with 4 or 5 terminals (SPST / SPDT)
Notes: Module includes cover and input stud caps only. Fuses, circuit breakers, relays, terminals, seals, cavity plugs and bracket are not included. Please refer for page 133 for dimensions and accessory parts.

Front View

Rear View

Assembled (Deep Cover)

Scan this QR Code for more information

QR Code: 9040

POWER DIST.

Components: Accepts Mini fuses, Mini bladed circuit breakers, Mini 280 relays & Micro 280 relays and 280 Flashers.

Input Stud Rating: 80A max.

Output Terminal Rating: 30A max per terminal.

Block: Black thermoplastic with silicone seal.

Cover: Black thermoplastic with tether.

Internal Buss: Tin-plated copper (bussed versions).

Input Studs: M6 stud nickel plated brass (bussed versions only).

Wire Size: #22 - #12 AWG / 0.35mm² - 3mm².
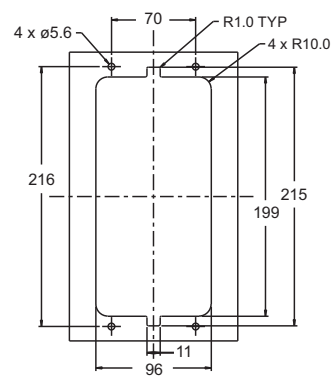
Ingress Protection Rating: IP66-IEC 60529. Valid when properly installed with cover, cable seals and cavity plugs (to fill all unused output cavities).

Mounting: Threaded inserts #10-32 as standard

Mounting S/S Hardware (optional):
Screw: #MT1032PPHS. Washer: # SW316S.

Temperature Rating: -40°C to +125°C (PDM only)

Cover Options: Replacement covers also available. Shallow cover with Gore vent (Mini fuses only) # B151-7168-1-J. Deep cover (Mini fuses / breakers / 280 relays) # B151-7168-2-J

Notes: Module includes cover. Stud caps included for bussed versions. Kits include terminals, seals and a bracket. All other parts to be ordered separately.

Gore vent on shallow cover only

Dimensions in MM

Shallow Cover

Deep Cover
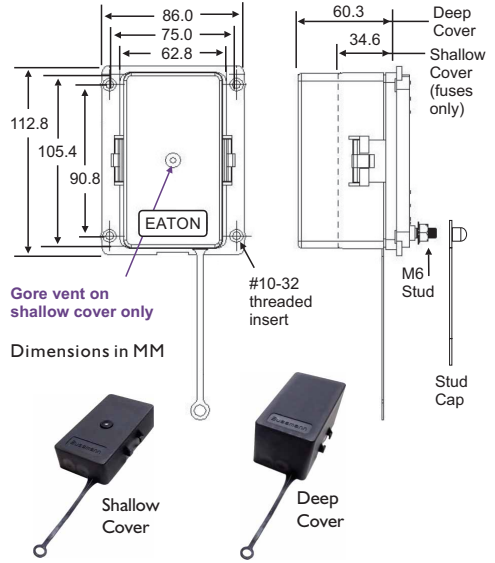
APTIV DELPHI METRI-PACK 280
TERMINALS: TANGLESS
Female Sealed, Tin Brass / Tin plated

Part Number	Wire (AWG)	Wire (mm²)
12110846	#22 - #20	0.35 - 0.50
12110847	#18 - #16	0.80 - 1.0
12129409	#16 - #14	1.0 - 2.0
12110845	#14 - #12	2.0 - 3.0
12110853	#12 - #10	3.0 - 5.0

CABLE SEALS: Silicone
CAVITY PLUG: Silicone

Part Number	Cable Dia.(mm)	Colour
15324983	1.29 - 1.70	Dark Red
15324982	2.03 - 2.85	Green
15324980	2.81 - 3.49	Grey
15324981	3.45 - 4.30	Blue
12010300	N/A Plug	Green

OTHER ACCESSORIES

Part Number	Picture	Description
PROBRK002	(A)	Low Profile Bracket, Zinc Anneal Powder Coated (1pc)
PROBRK001	(B)	Medium Profile Bracket, Zinc Anneal Powder Coated (1pc)
PROBRK008K	(C)	Tall Profile Brackets, Stainless Steel Natural 1.5mm (2pcs)
CAB2.0X85TS1J	(D)	Red Jumper Cable 1.84mm² x 90mm. Tangless (1pc)

(A)

(B)

(C)

(D)
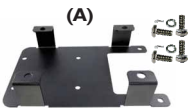
Height 31mm
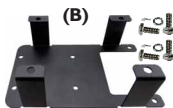
Height 45mm

Height 56mm

Terminated & Sealed Jumper (see p.186)

RELATED PRODUCTS:

Terminal Tools Crimper & Removal (see p.185 - 186)

Mini Fuses, LED Mini Fuses, Mini Blade Breakers, Mini Resistors & Transorbs.

Micro 280 Relays, Mini 280 Relays, 12VDC or 24VDC.

POWER DIST.

133

MINI FUSE & MICRO RELAY SEALED MODULE

EAT•N **Bussmann**

IP66

Designed to provide efficient power distribution in a rugged compact form with applications in marine, construction, agriculture, heavy trucking, and specialty vehicle industries. It accommodates a combination of up to 40 x Mini fuse or Mini bladed breakers and 10 x ISO 280 Micro relays. Also features a slot to hold a fuse puller and 4 slots for spare fuses. Optional common bussing for fuses.

Voltage Rating: 32VDC
Ampere Rating: 200A max.
Components: Accepts Mini fuses, Mini bladed circuit breakers and ISO 280 Micro relays.
All components must have 2.8mm blades on 8.1mm centerline spacing.
Mounting: Threaded inserts #10-32 as standard (M5 optional). Intended for horizontal to vertical mounting orientations.
Block & Cover: Black UL-Rated 94V0 thermoplastic. Silicone rubber gasket. Deep cover with internal tether. Cover included with base.
Cover: Replacement deep cover available. # B151-7182-1.
Suits Minifuses, ISO 280 Micro relays and Mini bladed circuit breakers.
Internal Buss: Plated copper (optional, feeds fuses only)
Input Studs: M8 x 1.25 stud (on bussed versions).
Input Stud Rating: 100A max per bus bar
Output Terminal Rating: 30A max per terminal.
Ingress Protection Rating: IP66 (Valid when properly installed with cover, cable seals and cavity plugs).
Wire Size: #22 - #12 AWG / 0.35mm² - 3mm²
Temperature Rating: -40°C to +85°C (Module only)

Terminals: Delphi Metri-Pack 280 Female Sealed (Tanged)
Cavity Plugs: Required to fill unused output cavities for ingress protection.
Cable Seals: Please check the overall diameter of your cable before ordering cable seals.
Terminal Tools: Terminal crimping & removal tools see pages 185-186.
Ordering: Block is supplied with cover & one nut for each input stud.
Pack Size: 1pc, 20pcs, 100pcs.
Not Included: Terminals, cable seals, cavity plugs, mounting brackets or mounting screws.
Module does not include any plug-in components such as fuses, circuit breakers, relays or the fuse puller.

40 x Mini Fuses or Mini Breakers and 10 x ISO 280 Micro Relays.

MODULES & COVER OPTIONS :

Part Number	Mini Fuse Positions*	Fuse Bussing	Left Fuse Side	Right Fuse Side	Relay Contents	Nbr of Cavities	Max Nbr of Terminals
15401-1-2-1-0A	40x Mini Fuses	Dual	Bussed	Bussed	10x ISO 280 Micro	130	90
15402-1-2-1-0A	40x Mini Fuses	Single	Bussed	Unbussed	10x ISO 280 Micro	130	110
15404-1-0-1-0A	40x Mini Fuses	No Bus	Unbussed	Unbussed	10x ISO 280 Micro	130	130

Notes: * Mini circuit breakers can be fitted in mini fuse positions. Relays are un-bussed.

ACCESSORIES:

Part Number	Description
12084201	Terminal Female (#22-20AWG), 0.35 - 0.5mm²
12077411	Terminal Female (#18-16AWG), 0.80 - 1.0mm²
12129493	Terminal Female (#14-12AWG), 2.0 - 3.0mm²
12077413	Terminal Female (#10AWG), 5.0mm²
15324983	Cable Seal Dark Red, 1.70 - 1.29mm Cable Diameter.
15324982	Cable Seal Green, 2.85 - 2.03mm Cable Diameter.
15324980	Cable Seal Grey, 3.49 - 2.81mm Cable Diameter.
15324981	Cable Seal Blue, 4.30 - 3.45mm Cable Diameter.
12010300	Cavity Plug Green, 6.7mm Cavity inside Diameter.
PROBRK003	Bracket Stainless Steel, Black Powder Coated, 90° Angle.
TERMKIT003	Terminal MP280 Tanged, Seal & Plug Assortment Kit 310pcs
CAB2.0X85TS1TJ	Red Jumper Cable 1.84mm² x 90mm. Tanged (1pc).
B151-7182-1	Replacement Cover. Black Thermoplastic.
32013BS	Mini Fuse & Mini Circuit Breaker Puller.

Mounting Bracket
PROBRK003

Terminal Kit
TERMKIT003
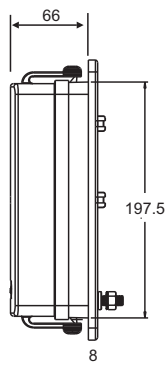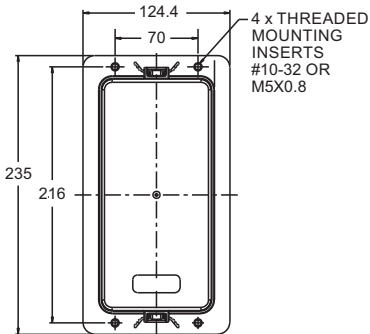(see p.187)

Tanged Female Sealed Terminals
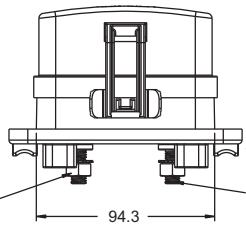

Cable Seals & Cavity Plug

Terminal Tools
(see p.185 - 186)

Fuse & Breaker Puller (see p.44)

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E·A·T·N Bussmann

124.4
70
4 x THREADED MOUNTING INSERTS #10-32 OR M5X0.8

66

235
216

197.5

8

4 x ø5.6
70
R1.0 TYP
4 x R10.0

216
215
199
11
96

Panel Cutout Diagram
(Mount from the rear of the panel)
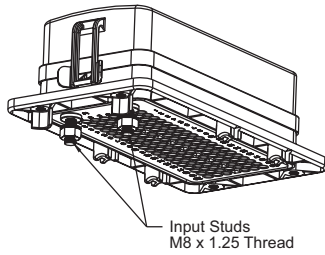
Cable Managers - Options shown on this drawing only

Input Studs
M8 x 1.25 Thread

Optional Hardware

94.3

Input Studs
M8 x 1.25 Thread

Dimensions in MM

POWER DIST.

Input Stud Power Diagram

20 x Fuses / CB's Left Side

20 x Fuses / CB's Right Side

10 x Relays

Left Bus Input Stud (optional)

Right Bus Input Stud (optional)

⬡ = **Input Stud (Optional) Powers Fuses / Breakers**

Rear View - Inputs / Outputs

Dual Bus Version Pictured Above

Front View - Component Loading

Unloaded RFMR Pictured Above
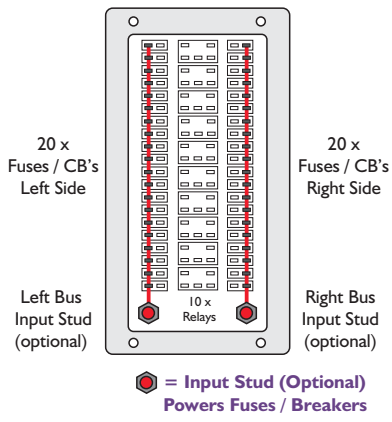
RELATED PRODUCTS:

Mini Fuses, Mini Resistors, Mini Transorbs & Mini Blade Circuit Breakers.

ISO 280 Micro Relays 4 or 5 Pin. 12V or 24V (see p.164)

Tanged Pre-Terminated Cables, Jumpers & Butt Splice Connectors. (see p.186)

PROLEC

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135

EAT·N **Bussmann**

IGNITION PROTECTED

IP66

These distribution modules are designed for high current applications and suitable for placement in extreme moisture and high vibration environments. A silicone seal and included removable fuse cover offer a weather-tight enclosure for the fuse positions. Both modules feature rugged M8 power input studs. Multiple units may be connected together using a buss bar. They can also be bussed to any of Bussmann's PDMs (i.e. RTMR - p.129-133, VEC / DVEC - p.142 etc.)

Power Fuse Module (PFM)
• Housing for 2 fuse positions.
• Each fuse is a separate circuit.
• Fuse cover included.

Fuse Cover

Power Fused Relay Module (PRM)
• Includes a molded-in High Power Mini relay.
• Housing for 2 fuse positions. One fuse protects the relay and the other is a single-circuit inline fuse.
• Fuse cover included.

Fuse Cover

Rating (PFM): Each inline fuse; up to 60A.
Relay Rating (PRM): 70A (12VDC) or 25A (24VDC) steady-state relay.
Relay Protection Fuse: Up to 60A. Non-switched inline fuse; up to 60A.
Temperature Rating: -40 °C to +85 °C.
Body: UL-Rated 94V-0 thermoplastic with silicone seal.
Terminals: Tin-plated copper terminals.
Studs: Plated steel. Includes keps nuts.
Input Termination: M8 threaded stud.
Output Termination: Two M6 threaded studs.
Relay Signal Connector Kit: Only for use with PRM's. (1.0 to 1.5mm²)
Ingress Protection Rating: IP66 (excluding stud connections).
Mounting: Counter Rotation Feature (CRF) included to prevent the module rotating on single bolt installations. 6.5x35.4 Mount Hole
Bussing: Use 3771BUS busbars to join multiple PRMs/PFMs. Stud insulator caps included with busbars.
Contact sales for options to bus PRMs / PFMs to other Bussmann PDM's.
Accessories: Relay signal connector, bus bars, separators and fuses.
Suitable Fuses: JTFxxx (20A - 60A), not included.
Notes: Each Power Relay Module requires 1 x PRM Relay Signal Connector Kit (50126K) to control the relay. Fusible links are not included.
Compliances: SAE 31171 (Ignition protected).
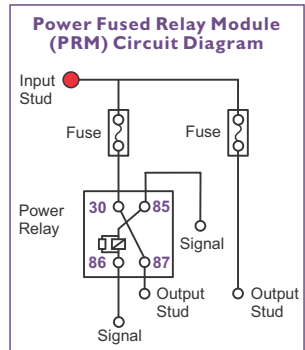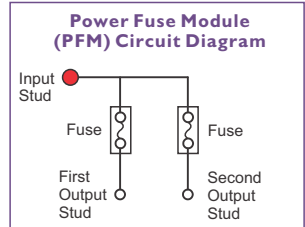
Part Number	Description
37701-1NN0025	32V Power Fuse Module (PFM)
37702-1AN0025	12V Power Relay Module (PRM)
37703-1AN0025	24V Power Relay Module (PRM)
50126K	PRM Relay Signal Connector Kit
3771BUS-2	Twin Bus Bar With Stud Covers
3771BUS-3	Triple Bus Bar With Stud Covers
3771BUS-4	Quad Bus Bar With Stud Covers
B162-7003/J	Short Joiners / Output Stud Barriers
B162-7002/J	Long Joiners / Output Stud Barriers

Scan this QR Code for more information

QR Code: 9002

Power Fuse Module (PFM) Circuit Diagram

Input Stud
Fuse — Fuse
First Output Stud — Second Output Stud

Power Fused Relay Module (PRM) Circuit Diagram

Input Stud
Fuse — Fuse
Power Relay
30 — 85
86 — 87
Signal
Output Stud — Output Stud
Signal

RELATED PRODUCTS:

Fusible Links JTF (20A-80A)
(See page 21)

PRM Relay Signal Connector Kit
Inc terminals 0.1-1.5mm² & cable seals 0.5-1.0mm²

Joiners / Output Stud Barriers

Bus Bar With Covers 2, 3 & 4 Way.
Multiple modules can be joined together with these optional Bus Bars.

POWER DIST.

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AUTO FUSE MODULAR BLOCK KIT - 16 WAY

MTA

Part Number
00655K

Fuse Block Kit Contents;
1 x 00670 (Clear Cover with Gasket)
1 x 00650 (16 Way Housing with 5 Secondary Locks)
1 x 00680 (Bottom Cover)
35 x 07900 (Terminals 0.5 to 1.5mm² 14A, F 6.3mm)
2 x 00690 (Mounting Bracket Male)
2 x 00691 (Mounting Bracket Female)
Fuse block can accommodate one fuse puller 00358.

RELATED PRODUCTS:

Auto & LED Auto Fuse
(see p.17)

Fuse Puller
(see p.44)

In   Out

Busbar Terminals F 6.3
07912RL (2 - 3mm²) 20A
07911RL (4 - 6mm²) 37A

MICRO RELAY MODULAR BLOCK KIT - 7 WAY (4 OR 5 PIN)

Part Number
00705K

Micro Relay Kit Contents;
1 x 00670 (Clear Cover With Gasket)
1 x 00700 (Micro Relay Housing with 7 Secondary Locks)
1 x 00680 (Bottom Cover)
25 x 01940 (Terminals 0.5 - 1.5mm² F 4.8mm)
15 x 01655 (Terminals 1 - 2.5mm² 20A, F 6.3mm)
2 x 00690 (Mounting Bracket Male)
2 x 00691 (Mounting Bracket Female)

RELATED PRODUCTS:

**ISO Micro Relays.
12VDC or 24VDC.**
(See page 166)

Optional Terminals F 6.3
01651RL (2.5 - 6mm²)

MINI RELAY MODULAR BLOCK KIT - 4 WAY (4 OR 5 PIN)

Part Number
00665K

Mini Relay Kit Contents;
1 x 00670 (Clear Cover With Gasket)
1 x 00660 (Mini Relay Housing with 4 Secondary Locks)
1 x 00680 (Bottom Cover)
20 x 01650 (Terminals 1 - 2.5mm² 20A, F 6.3mm)
2 x 00690 (Mounting Bracket Male)
2 x 00691 (Mounting Bracket Female)

RELATED PRODUCTS:

**ISO Mini Relays.
12VDC or 24VDC.**
(See page 166)

Optional Terminals F 6.3
01651RL (2.5 - 6mm²)

POWER DIST.

Features:
• All 3 blocks can be ganged to create a power distribution centre.
• Side wall locks can attach MTA Auto fuse holders. (p78)
• Side wall locks can attach MTA Mini & Maxi relay holders. (p171)

**Side wall lateral lock feature.
Add MTA fuse or relay holders.**

Voltage: 32V
Maximum Continuous Current Ratings:
225A (00655K), 150A (00705K),120A (00665K)
Body: Black, **Cover:** Transparent, includes gasket.
Terminals: Axial connections. Other terminal options
include various terminal sizes, reeled and busbar types.
Contact sales for further information.
Notes: Fuses, fuse extractor and relays are not included.
Pack Size: 1
Approval: RoHS

89 71   46

93.6
130.2

Mounting: M8 screw
Overall Height: 64mm

Dimensions in MM

To simplify ordering, we now offer Module Kits which include suitable terminals for the components.
If you wish to order a module without terminals, simply remove the 'K' suffix from the part number.
Once you have selected the module(s), select a mounting bracket or frame and a cover to suit your installation.
Note: Plug-in components such as fuses, relays, pullers etc. are not included with the modules or module kits.

FUSE MODULE KITS - INCLUDES MODULE & TERMINALS

Part Number	Module Capacity	Terminals Included in the Kit
01460K1	20 x Mini Fuses.	40 x 08332 (Mini Fuse).
01470K	6 x Maxi Fuses. (Includes Busbar).	6 x 07660 (Maxi Fuse). Busbar Included. Rated to 120A.
01600K1	6 x Auto Fuses & 3 x Maxi Fuses.	12 x 07930 (Auto Fuse), 6 x 07660 (Maxi Fuse).
01690K **NEW**	4 x Mini Fuses & 6 x Jcase Fuses**.	5 x 08331, 5 x 08332 (Mini Fuse), 10 x 07992, 4 x 07993 (Jcase)
01698K **NEW**	20 x Mini Fuse / Diodes	10 x 08331, 40 x 08332 (All products with 2.8mm blades)

Notes: 01690 module will accept both standard Jcase (JTF) & low profile Jcase (LJC) fuses.

RELAY MODULE KITS - INCLUDES MODULE & TERMINALS

Part Number	Module Capacity	Terminals Included in the Kit
01484K	6 x ISO Micro Relays.	18 x 08401 (4.8mm), 12 x 08503 (6.3mm).
01494K	1 x ISO Mini & 1 x ISO Maxi Relay.	7 x 08503 (6.3mm), 2 x 07741 (9.5mm).
01660K1	2 x ISO Maxi Relays.	4 x 08502 (6.3mm), 4 x 07741 (9.5mm).
01698K **NEW**	10 x ISO280 Ultra Micro relays or 6 x ISO280 Micro Relays or a mixture of both.	10 x 08331, 40 x 08332 (All products with 2.8mm blades)

Relay Compatibility: Micro & Mini relays with 4 or 5 terminals.
Ultra Micro and Maxi relays with 4 terminals.

FUSE & RELAY MODULE KITS - INCLUDES MODULE & TERMINALS

Part Number	Module Capacity	Terminals Included in the Kit
01510K1	10 x Mini Fuses & 1 x ISO Maxi Relay.	20 x 08332 (Mini Fuse), 2 x 02050 (6.3mm), 2 x 07741 (9.5mm).
01564K	8 x Mini Fuses & 4 x ISO Micro Relays.	16 x 08332 (Mini Fuse), 12 x 08401 (4.8mm), 8 x 08503 (6.3mm)
01504K	4 x Mini Fuses & 2 x ISO Mini Relays.	8 x 08332 (Mini Fuse), 10 x 08503 (6.3mm).
01698K **NEW**	Mix of Mini Fuse / Diodes / Breakers, ISO280 Relays (Ultra Micro or Micro).	10 x 08331, 40 x 08332 (All products with 2.8mm blades)

Relay Compatibility: Micro & Mini relays with 4 or 5 terminals.
Ultra Micro and Maxi relays with 4 terminals.

KITTED TERMINAL SPECIFICATIONS

Part Number	Suits Components	Terminal Size	Wire Size	Ampere Rating	Product Description
08331	Mini Fuses, Breakers, 280 Relays	2.8mm	1 to 2mm²	16A	Box F2.8mm - Standard
08332	Mini Fuses, Breakers, 280 Relays	2.8mm	2.5 to 4mm²	28A	Box F2.8mm - Standard
07930	Auto Fuses	5.2mm	2 to 3 mm²	20A	Open F6.3mm - Spring clip
07660	Maxi Fuses	8mm	4 to 6mm²	36A	Box F8mm - Spring clip
08401	ISO Micro Relays	4.8mm	1.5 to 2.5mm²		Box F4.8mm - Standard
08503	ISO Mini Relays	6.3mm	4 to 6mm²	37A	Box F6.3mm - Standard
02050	ISO Micro, Mini, Maxi Relays	6.3mm	2.5 to 4mm²	28A	Open F6.3mm - Spring clip
08502	ISO Maxi Relays	6.3mm	2 to 2.5mm²	20A	Box F6.3mm - Standard
07741	ISO Maxi Relays	9.5mm	6 to 8mm²	48A	Box F9.5mm - Spring clip
07992	Jcase Fuses	6.3mm	6 to 8mm²	48A	Open M6.3mm - Standard
07993	Jcase Fuses	6.3mm	10mm²	53A	Open M6.3mm - Standard

Notes: Not all terminals are compatible with all modules. Terminals are available in other wire sizes and configurations to suit the MTA modules. Please refer to our QR datasheet.

MODULE FRAMES, COVERS & BRACKETS

All modules require brackets or a frame for mounting in your vehicle.
Please refer to page 140 for options.

Scan this QR Code for more information

QR Code: 9000

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POWER DIST.

MODULAR FUSE AND RELAY MODULES - CONTINUED

MTA

20 x MINI FUSES
Part Number: 01460K1

Note: Includes room for 6 spare Mini fuses.

Mini Fuse not included. ▢ Secondary locks included.

6 x MICRO RELAYS (5 PIN)
Part Number: 01484K

ISO Micro Relay not included. ▢ Secondary lock included.

10 x MINI FUSES
1 x MAXI RELAY (4 PIN)
Part Number: 01510K

Note: Includes room for 3 spare Mini fuses

Mini Fuse & ISO Maxi Relay not inc. ▢ Secondary locks included.
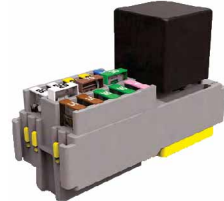
1 x MINI RELAY (5 PIN)
1 x MAXI RELAY (4 PIN)
Part Number: 01494K

Maxi Relay   Mini Relay

ISO Mini & ISO Maxi Relay not inc. ▢ Secondary lock included.

8 x MINI FUSES
4 x MICRO RELAYS (5 PIN)
Part Number: 01564K

Mini Fuse & ISO Micro Relay not inc. ▢ Secondary lock included.

4 x MINI FUSES
2 x MINI RELAYS (5 PIN)
Part Number: 01504K

Mini Fuse & ISO Mini Relay not inc. ▢ Secondary lock included.

6 x MAXI FUSES (SINGLE FEED)
Part Number: 01470K

Note: Includes room for fuse puller 00358 (optional).

Fuse Puller Storage

⊕ M8 Input

Busbar Terminals

1 2 3 4 5 6

M8 Power Input Feed
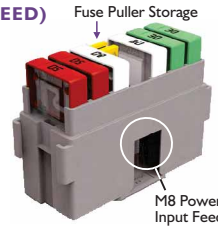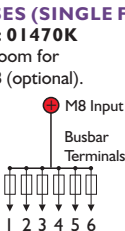
Maxi Fuse not inc. ▢ Secondary lock included.

2 x Maxi Relays (4 PIN)
Part Number: 01660K
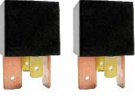
ISO Maxi Relays not included. ▢ Secondary lock included.

4 x MINI FUSES
6 x JCASE FUSE LINKS*
(*Standard or Low Profile)
Part Number: 01690K

NEW

Mini Fuse   Low Profile Jcase Fuse   Jcase Fuse

Fuses not included. ▢ Secondary lock included.

6 x AUTO FUSES
3 x MAXI FUSES
Part Number: 01600K1

Maxi Fuse and Auto Fuse not included.

▢ Secondary locks 4x 01601, 1x 01602 (optional).

MODULAR OPEN PLAN MODULE 2.8MM TERMINAL

NEW

20 x MINI FUSES, DIODES, CIRCUIT BREAKERS
10 x ULTRA MICRO ISO 280 RELAYS
6 x MICRO ISO 280 RELAYS
Part Number: 01698K
Terminal Capacity: 40
Layout Matrix: 4 x 10.
Note: May use combination of any of these components.
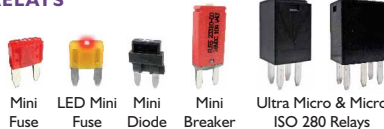
Mini Fuse   LED Mini Fuse   Mini Diode   Mini Breaker   Ultra Micro & Micro ISO 280 Relays

▢ Secondary lock included.

MOUNTING BRACKETS, MOUNTING FRAMES & COVERS

Part Number	Description
01580	Single Module Mounting Bracket (2pcs required)
01590	Single Module Cover
00699	Dual Module Mounting Bracket Low (2pcs req'd)
01180 NEW	Dual Module Mounting Bracket High (2pcs req'd)
01550	Dual Module Cover
01520	Four Module Frame Low Profile Mount
01530	Four Module Cover
01706 NEW	Five Module Frame High Profile Mount
01707 NEW	Five Module Cover

Single Module Cover (01590)

Dual Module Cover (01550)

Single Module Bracket (01580)

Dual Module Bracket Low (00699)

Dual Module Bracket High (01180)

Four Module Cover (01530)

Four Module Frame (01520)

Five Module Cover (01707)
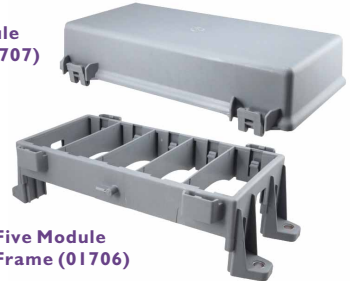
Five Module Frame (01706)

ADAPTOR, RETAINERS & FUSE PULLER

Part Number	Description	Pack Size
01620 NEW	Single Module Adaptor	250
01630 NEW	Relay Retainer	350
01376 NEW	Relay Retainer	TBC
01237 NEW	Mini Circuit Breaker Retainer	TBC
00358	Fuse Puller Yellow	1

Single Module Adaptor (01620) Cannot use with cover

Mini Breaker Retainer (01237)

Relay Retainer (01630)

Fuse Puller (00358)

TERMINAL SECONDARY LOCKS (Optional)

Part Number	Description
01601	Fits Module 01600 (Auto Fuse terminals)
01602	Fits Module 01600 (Maxi Fuse terminals)

Notes:
All terminals lock into the module body. A secondary lock ensures the terminal can't dislodge under force or vibration.

MTA

SINGLE MODULE BRACKET & COVER
Low Profile Mount

Cover 01590

Bracket 01580
2pcs required
per module

FCL

Ø 7mm
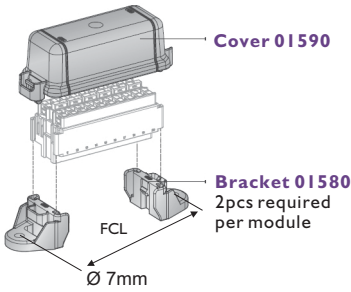
Overall Length (OL): 150mm
Fixing Centre Length (FCL): 132mm
Mounting Hole (MH): 7mm
Overall Width (OW): 39mm
Bracket Height (BH): 25mm
Overall Height With Cover (OH): Varies by module

DUAL MODULE BRACKETS & COVER
Low Profile Mount

Fuse Puller 00358
(optional)

Fuse Puller Storage

Cover 01550
(OL): 131mm
(FCL): 115mm
(MH): 7mm
(OW): 77.5mm
(BH): 25mm
(OH): varies

2pcs required
per module
Ø 7mm

Bracket
00699

High Profile Mount

NEW

Bracket
01180

Ø 7mm

(BH): 101.2mm
(FCL): 130mm, (FCW): 48mm
2pcs required per module
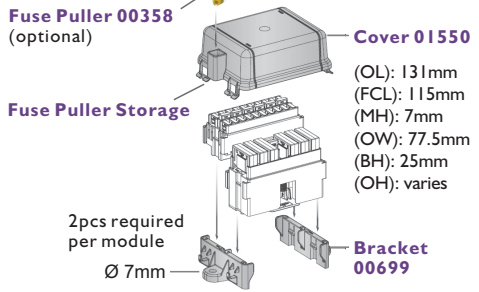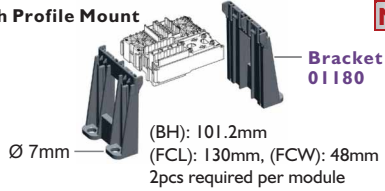
FOUR MODULE FRAME & COVER
Low Profile Mount

Cover 01530

Ø 7mm

Frame 01520

Fuse Puller
Clip

Lateral lock.
Attach accessory
fuse holders.

Fuse Puller
00358

(OL): 159.5mm
(FCL): 107mm
(FCW): 115mm
(MH): 7mm
(OW): 131mm
(BH): 29mm
(OH): varies
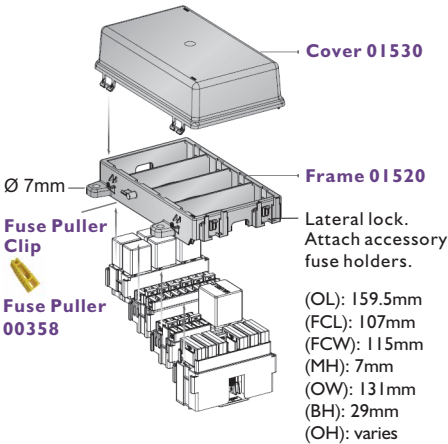
FIVE MODULE FRAME & COVER
High Profile Mount

UPDATED

Cover 01707

Upgraded
release latch

Fuse Puller Clip
Fuse Puller 00358

Frame 01706

Ø 7mm

FCW

(OL): 240.5mm
(FCL): 222.5mm
(FCW): 62mm
(MH): 7mm
(OW): 114mm
(BH): 58.7mm
(OH): 96.4mm
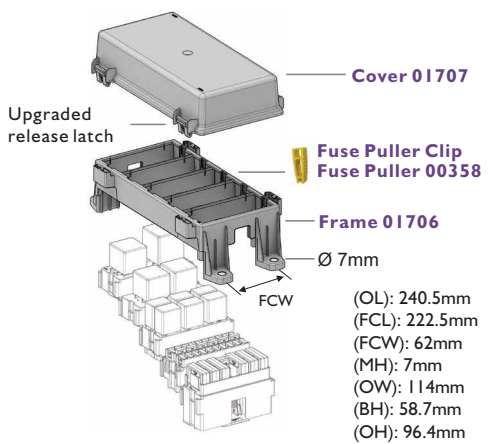
POWER DIST.

TERMINALS

Female 2.8mm
08331, 08332

Female 4.8mm
08401

Female 6.3mm
02050

Female 6.3mm
08502, 08503

Female 6.3mm
07930

Male 6.3mm
07992, 07993

Female 8.0mm
07660

Female 9.5mm
07741

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141

EAT•N **Bussmann**

UPDATED IP66

ssVEC
31S Series

These ssVEC and ssDVEC provide efficient, compact power distribution. The rugged design means they are capable of operating in severe environments with high vibration and moisture. Typically power is supplied via the input studs and output through connectors, but the Dual+ / Quad+ units feature mini fuses and relays that are standalone circuits (not connected to power input studs). Please refer to our QR datasheet for the internal circuit diagram of each unit & other specifications. The unit includes mini fuses, ISO 280 relays and a fuse puller. Connectors, terminals, cable seals and cavity plugs are not included, order separately. Each connector is keyed and will only fit the matching colour socket on the unit. Custom circuit design with pre-loaded specific components and labelled to suit OEM requirements also available.

General Specifications (for both ssVEC and ssDVEC)
Connector Terminals: Delphi Metri-Pack 280 Female Sealed (Tanged), 30A max each. See page 134 for details.
Connectors: 100A max each, colour coded. Quantity varies depending on the model.
Cable Seals & Cavity Plug: Delphi Metri-Pack 280 series.
Input Studs M8: 100A Max each. Unit Rating Max: 200A (ssVEC), 400A (ssDVEC).
Operating Temperature: -40 °C to +105 °C.
Notes: The unit must be installed and oriented in accordance with factory guidelines (available on request).
Includes Components: Mini fuses, ISO 280 relays & fuse puller.
Does Not Include: Connectors, terminals, terminal seals and cavity plugs.

ssDVEC
32S Series

Part Number	PDU Model	Input M8 Bus Bar	Mini Fuses	ISO 280 12V Micro Relay	ISO 280 Ultra Micro Relay	Fuse Puller	Output Connectors Quantity & Colours
31S-000-0	ssVEC	Dual	8pcs	8pcs x 12V SPDT	-	1pc	4
31S-001-0	ssVEC	Dual	16pcs	4pcs x 12V SPDT	2pcs x 12V SPST	1pc	4
31S-002-0	ssVEC	Single	16pcs	-	8pcs x 12V SPST	1pc	3
31S-003-0	ssVEC	Dual	29pcs	-	-	1pc	4
31S-004-0	ssVEC	Dual+*	8pcs	8pcs x 12V SPDT ^	-	1pc	4
32S-300-0	ssDVEC	Quad	16pcs	16pcs x 12V SPDT ^	-	1pc	6
32S-301-0	ssDVEC	Quad	58pcs	-	-	1pc	8
32S-302-0	ssDVEC	Quad+*	24pcs	12pcs x 12V SPDT ^	2pcs x 12V SPST	1pc	8

*+ Version includes relay & fuse circuits powered via plug-in connectors instead of bus bar studs, please refer to circuit diagrams in QR datasheet. ^ SPDT Relay Pin 87a not available for use in some circuits.

Connectors, Terminals, Seals and Cavity Plugs purchased separately. Please refer to QR datasheet.

32006-A22	Connector Black ■	Suit ssVEC
32006-B22	Connector Grey ■	Suit ssVEC & ssDVEC
32006-C22	Connector Green ■	Suit ssVEC & ssDVEC
32006-D22	Connector Blue ■	Suit ssVEC & ssDVEC
32006-E22	Connector Yellow ■	Suit ssDVEC Custom Unit
32006-F22	Connector Red ■	Suit ssDVEC
32006-G22	Connector Orange ■	Suit ssDVEC
32006-H22	Connector Brown ■	Suit ssDVEC
32006-TP2	Secondary Lock Secures Terminals in Connector	

Output Connectors & Secondary Lock TPA

Tanged Terminals, Seals & Cavity Plugs

Fuse Puller # 32013BS
Mini Fuses
Mini Breakers

ssVEC, 31S

120.2
120
150
143.4
75.2

ssDVEC, 32S

230
212
162
120
147
94 83

Dimensions in MM
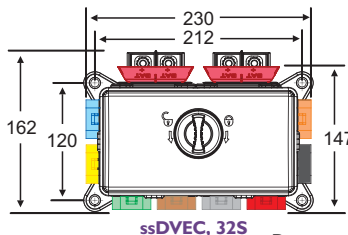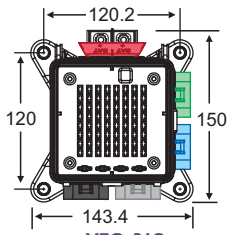
Custom Ordering Options (MOQ)
Cover: Vented, solid with gasket.
Cover Label: Inside, outside or both.
Power Input: Studs or 8mm blade terminals
Mounting: Ext. feet or Interior holes.
Busbar: Twin #B109-7081
Quad #B109-7031
Voltage: 24V versions also available.

Scan this QR Code for more information

QR Code: 9026

PROLEC

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POWER DISTRIBUTION UNITS LOADED MULTIPLEXED

EAT·N **Bussmann**

IP66 **NEW**

The multiplexed Vehicle Electrical Center (mVEC) is a power distribution node on a J1939 network, controlling relays based on information from the central vehicle controller. The mVEC will also return power distribution status information like relay state, failed relay, missing component or blown fuse.
High Power: 200A Rated. Individual outputs rated up to 30A (max of 32 outputs). 12V and 24V versions.
Flexible: The mVEC is offered in various standard and customized versions. Custom versions are configured to OEM wiring requirements. The mVEC accepts fuses, relays, circuit breakers, resistors, diodes, etc.- based on industry standard 2.8mm footprint.
Cost Effective: An alternative to high current, solid-state power distribution modules and features serviceable components. The mVEC is designed as a slave module, it is controlled by master modules. Standard units below come pre-loaded with relays, fuses and a fuse puller.
Custom Ordering Options: Cover marking: laser etching inside, outside or both. Compression limiters on mounting feet. Stuffed (with/without) components ie. fuses, relays, diodes, breakers, fuse puller. Customised circuit layouts, standard and custom CAN messages.

MVEC
31M Series

12V mVEC Part Number	24V mVEC Part Number	Input M8 Bus Bar	Mini Fuses	ISO 280 Ultra Micro Relay	Fuse Puller	Output Connectors			
31M-327-0	31M-328-0	Single	23pcs	4pcs x SPST	1pc	3	■	■	■
31M-000-2	31M-329-0	Single	16pcs	8pcs x SPST	1pc	2	■	■	
31M-300-0	31M-330-0	Single	8pcs	12pcs x SPST	1pc	2	■	■	

Part Number	Accessory Description
32006-A22	Output Connector Black Colour, 8 Position Keyed ■
32006-B22	Output Connector Grey Colour, 8 Position Keyed ■
32006-C22	Output Connector Green Colour, 8 Position Keyed ■
32006-TP2	Output Connector Secondary Terminal Lock 8 Pos.
MVECCCK	CAN Connector Kit includes; 1 x Connector, 12 x Terminals, 12 x Seals, 1 x TPA.

Fuse / Breaker Puller # 32013BS

CAN Connector Kit # MVECCCK

Voltage: 12VDC or 24VDC Options.   **Rating:** 200A max.
Input Studs: 2 x M8, 100A max each.   **Fuses:** 10A Mini fuses (pre-installed).
Relays: 4 pin ISO 280 Ultra Micro (SPST). 12VDC 20A or 24VDC 10A (pre-installed).
CAN Connector: AMP SSC 12-position sealed connector.
Output Connectors: up to 4, 100A max each, colour coded & sealed.
Output Connector Terminals: Delphi Metri-Pack 280 Female Sealed (Tanged). See QR Code or page 134 for further details on terminals, seals and cavity plugs.
Output Connector Terminal Rating: 30A max each.
Output Connector Cable Seals & Cavity Plug: Delphi Metri-Pack 280 series.
Operating Temp.: -40 °C to +85 °C.   **Fuse Puller:** 32013BS (pre-installed).
Notes: Customers must follow the factory guidelines and adhere to installation instructions which include restrictions on mounting orientation. Each connector is keyed and only fits into the same colour connector on the unit. Documentation is available on request.

Scan this QR Code for more information

QR Code: 9027

Power Input 2 x M8 Studs

Power Output To Accessories

Fuse

BATTERY [−] [+]

CAN Bus

Power & Ground to Can Elec
Addressing Options
Driver for External Relay

CAN DISPLAY

ENGINE CONTROL MODULE

TRANS CONTROL MODULE

ABS CONTROL MODULE

SWITCH PANEL

180
9.4
160
120
155

90
39
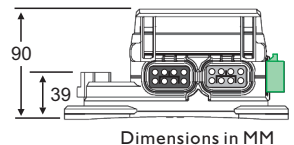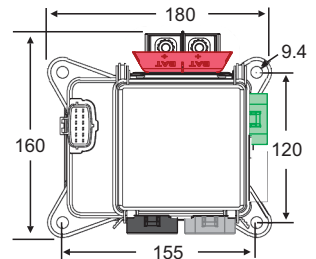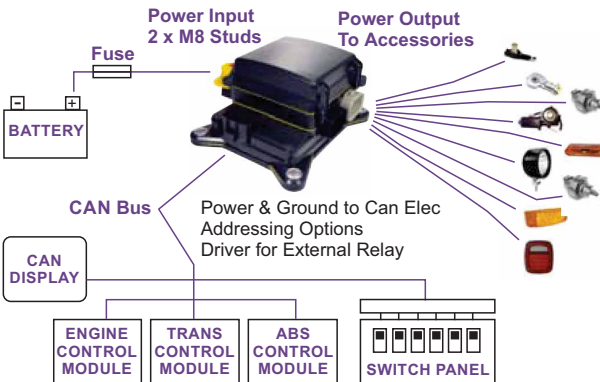
Dimensions in MM

POWER DISTRIBUTION UNIT (MiniFLEC™)

NEW
IP67
IP69K

Mini Flexible Electrical Center (MiniFlec)

The MiniFlec is a compact, front access, internally bussed, connectorized, sealed IP67/69K rated power distribution module. It is suitable for mounting in rugged commercial vehicle applications, has a dense concentration of high power circuits and accepts plug-in devices like automotive fuses, diodes and relays to protect and control complex electrical systems. An internally mounted Printed Circuit Board (PCB) feeds power from a single M8 input stud to 9 x fuse protected relay controlled power output circuits and 6 x fuse only power output circuits. Relay switching and power output wires are connected to the module using Tyco HDSCS connectors located at the base of the unit. All plug-in components ie. fuses, relays and Tyco connectors are not included with the module and must be ordered separately. Contact sales for further information on Littelfuse custom designed units.

Features

- Module includes cover. A fuse puller is also fitted in the cover.
- 6 locations for spare fuses (4 x Mini fuses).
- Cover is tethered to the module to prevent misplacement.
- Yellow Assure Latch system for secure locking of cover to the module.
- Module is rated to 150A max load.
- All relays share a common ground circuit for relay coil.
- Vent plug located at the base of the unit.

Cover fitted

4 Mounting points

Tether

Part Number:	Description
LFMX0007Z-01	Standard Unpopulated PDM & Cover for;
	Up to 12 x Mini Fuses (2A-30A)
	Up to 2 x MCase+ Slotted Fuses (15A-60A)
	Up to 1 x ISO Mini Relay 5 pin
	Up to 3 x ISO280 Micro Relays 4 Pin
	Up to 3 x ISO280 Ultra Micro Relays

Input / Output Connectors

Voltage: 9 to 16VDC (with 12V relays fitted)
18 to 32VDC (with 24V relays fitted)
Rating: Max Load 150A.
Power Input Stud: 1 x M8 stud.
Fuse Ratings: Max fuse ratings shown in circuit diagram.
Connectors (x4): Tyco HDSCS series with MCP terminals.
Housing: 94V-0 glass reinforced nylon.
Cover: Fuse puller also included. **Tether**: Included.
Features slots for 2 x spare Mini fuses & 2 x spare MCASE+ fuses.
Base: Includes vent for pressure equalization.
Ingress Protection Rating: IEC 529, IP67, IP69K.
Cover Gasket: Internal, silicone.
Mounting: Panel Mount (Rear fed connectors)..
Custom Options: Please contact sales.
Temperature Rating: -40 °C to +85 °C.
Notes: Connectors, fuses & relays are not included.

Tether

Pressure relief vent
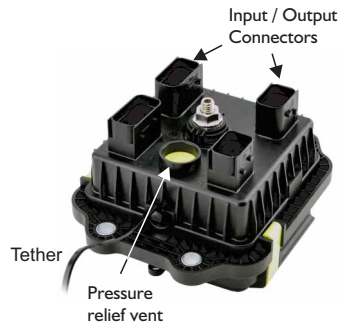
Scan this QR Code for more information

QR Code: 9032

RELATED PRODUCTS:

Mini Fuses, Mini LED Fuses & Mini Blade Circuit Breakers.

Ultra Micro ISO280 Relays, Micro ISO280 Relays. 12VDC or 24VDC.

1 x Fuse puller included

Storage for 4 x Spare Mini fuses

1 x ISO Mini relay

3 x ISO280 Ultra Micro relays

3 x ISO 280 Micro relays

2 x Mcase+ Slotted fuses

12 x Mini fuses

3 Assure Latches for cover retention

PROLEC

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Web: www.prolecproducts.com.au

Littelfuse®

NEW **IP67**

Flexible Electrical Center (FLEC™)

The FLEC™ is a configurable power distribution module. It accommodates circuit protection components in a sealed IP67 rated housing with a compact footprint & high component density. Littelfuse offers both standard versions (loaded or unloaded) as well as custom designs. Contact sales for further information on custom made products. The module is also equipped with terminals for plug-in components such as fuses and relays. Power is supplied to the module using three M8 power input studs (100A each). Power is output from the module using standard Delphi GT series sealed connectors that provide up to 76 output circuits for powered accessories.

Scan this QR Code for more information

QR Code: 9031

Twist-on cover with internal silicone gasket.
Internal storage for 4 spare fuses & fuse puller.
Tether included. Optional custom lid label.

Stud caps to protect from shorts.
M8 studs for power input & ground

Part Number	Description
FLEC3000Z-0U	Unpopulated PDM 12VDC / 32VDC Up to 28 x Mini Fuses / Mini Breakers Up to 18 x Micro ISO 280 Relays 5 Pin
FLEC3000Z-0	Populated PDM 12VDC includes; 28 x Mini Fuses. (6ps x 15A & 22pcs x 30A) 18 x Micro ISO 280 12VDC Relays 5 Pin.
CFLEC001Z-01	Populated Can-Bus PDM 12VDC includes; 29 x Mini Fuses. (8ps x 20A & 21pcs x 30A) 12 x Ultra Micro ISO 280 12VDC Relays 4 Pin. 3 x Micro ISO 280 12VDC Relays 5 Pin.

Voltage: See above for corresponding unit.
Rating: Max Load 300A. Max Fuse Rating 30A
Power Input Studs: 3 x 100A rated M8 studs. Plated copper and stainless steel. Red or black covers included.
Power Output Terminals: 38 x 1.5mm blades (15A) & 38 x 2.8mm blades (25A) suit Delphi GT 150 & 280 series sealed plug-in connectors.
Internal PCB: FR4 board with multi-layer high current 6oz copper. Conformal coating available.
Materials: UL94V0 thermoplastic.
Cover: Twist-on design with easy single-handed removal / installation. No latches to break and low over-head clearance requirements. Inside cover features slots for 4 x spare Mini fuses and includes a fuse puller.
Base: Includes vent for pressure equalization.
Ingress Protection Rating: IP67
Cover Gasket: Internal, high temperature silicone.
Mounting: Surface Mount.
Custom Layout Component Options: Mini fuses, JTF fuses, MJC fuses, Relays & PCB mount components. Can be designed to accept other components (development/tooling may be required). Internal PCB allows for custom circuit configurations, including designs requiring electronics such as those used in CAN J1939 and LIN systems
Temperature Rating: -40 °C to +85 °C.
Options: Additional MegaFlex holders can be interlocked to dovetails on the base for high current protection. A Mega fuse can be installed across the M8 input studs to pre-fuse multiple circuits in the FLEC. Custom component label or inside cover label.
Test Specifications: SAE, USCAR & ISO.

Standard 1.5 & 2.8mm terminals for use with standard Delphi GT series sealed connectors.
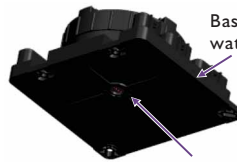
Base plate with gasket prevents water intrusion from rear.

Includes vent for pressure equalization.

GND PWR1 PWR2

180
85
16 14
8 16
12 10
197

Dimensions in MM
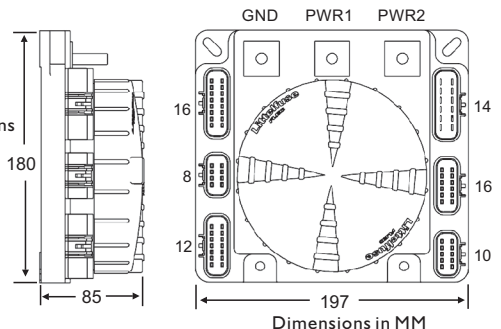
POWER DIST.

POWER DISTRIBUTION UNIT (EPC)

Littelfuse®

NEW
IP67
IP69K

This sealed power distribution module is an internally bussed and connectorized unit, suitable for mounting in rugged commercial vehicle applications. This unit has dense concentration of high power circuits and accepts plug devices like automotive fuses, diodes and relays to protect and control complex electrical systems. An internal Printed Circuit Board (PCB) provides bussed connections to a large number of devices. You decide which fuses and which wires.

Features
• 2 Individual power input circuits power fuses and relays using internal buses.
• Stand-alone relays & fuses for seperate power sources.
• Cover is tethered to the module to prevent misplacement.
• Custom configurations available.
• Module is rated to 200A max load.
• Vent plug located at the base of the unit.
• Sealed rugged enclosure (IP67/69K) protects internal circuitry from harsh environments such as high shock, vibration, as well as moisture and contaminants.

Part Number:	Description
LFLX0006Z-01	Standard Unpopulated PDM & Cover for;
	Up to 27 x Mini Fuses
	Up to 9 x ISO280 Micro Relays 4 or 5 Pin*
	Note:*Pin 87a is not used on some relays.

Voltage: 12VDC (with 12V relays fitted)
  24VDC (with 24V relays fitted)
Rating: Max Load 200A.
Power Input: Multiple sources via connector terminals.
Wire Sizes: 0.5mm² to 2.5mm²
Fuse Ratings: Max fuse ratings shown in circuit diagram.
Connectors (x4): Tyco HDSCS with AMP MCP terminals.
Base: Includes vent for pressure equalization.
Ingress Protection Rating: IP67/69K
Body Gasket: Silicone.
Body & Cover Material: Pet glass filled (UL94-V0)
Mounting: Surface Mount.
Custom Options: Please contact sales.
Temperature Rating: -40 °C to +85 °C.
Bolt Mounting Torque: 6 - 8 Nm
Notes: Connectors, fuses & relays are not included.

Internal Circuit Summary

Power input 1 supplies:
• 2 x SPST relays supply fuse protected power*.
• 1 x Fuse protected output (relay by-pass).
• 15 Mini fuses.

Power input 2 supplies:
• 3 x SPST relays supply fuse protected power*.
• 2 x Fuse protected outputs (relay by-pass).
• 5 Mini fuses.

Stand-alone circuits (independent power):
• 1 x SPST ISO280 Micro relay*.
• 2 x SPDT ISO280 Micro relays*.
• 1 x SPDT ISO280 Micro relay.
• 2 Mini fuses.

*Relay coil is connected to the common ground stud.

Scan this QR Code for more information

QR Code: 9033

RELATED PRODUCTS:

Mini Fuses, Mini Resistors, Mini Diodes, Mini Shunts & Mini Blade Circuit Breakers.

Micro ISO280 Relays, 12VDC or 24VDC.

POWER DIST.

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Part Number	Product Description	Conductor	Pack Size	Colour	
43408	Terminal block 24A, 1000V (Inputs / Out)	Flexible (0.5-2.5mm²), Rigid (0.5-4m²)	1/100	Grey	
43409	Terminal block 32A, 1000V (Inputs / Out)	Flexible (0.5-4mm²), Rigid (0.5-6m²)	1/100	Grey	
43409BL	Terminal block 32A, 1000V (DC Control)	Flexible (0.5-4mm²), Rigid (0.5-6m²)	1/100	Blue	
43409E	Terminal block 32A, 1000V (Earth)	Flexible (0.5-4mm²), Rigid (0.5-6m²)	1/100	Ylw / Gr	
43401	Terminal block 41A, 1000V (Inputs / Out)	Flexible (0.5-6mm²), Rigid (0.5-10m²)	1/50	Grey	
43525/24	Jumper (pitch 5.1mm) 25A, 600V	Flexible (2.5mm²)	1/5	Orange	
43520/24	Jumper (pitch 6.1mm) 25A, 600V	Flexible (4mm²)	1/5	Yellow	
43621/24	Jumper (pitch 7.1mm) 50A, 600V	Flexible (6mm²)	1/5	Green	
43010	End plate (1.5mm wide), Suit Euro 2.5 - Euro 4		1/100	Grey	
43011	End plate (1.5mm wide), Suit Euro 6 - Euro 10		1/100	Grey	
43444	End bracket (stop modules sliding on DIN rail)		1/100	Grey	
43300	Marking tags. Printed numbers 1-10 (2 sets)		1/25	White	
43310	Marking tags. Printed numbers 1-100 (1 set)		1/5	White	
43311	Marking tags. Printed numbers 101-200 (1 set)		1/5	White	
43192	Marking tags. Blank stem. 1 stem = 20 Marking Tags.		1/25	White	

Connection: Slot screw terminals. **Mounting:** DIN Rail 35.
End Plates: The blocks feature 1 x open and 1x closed wall so only one End Plate is required to finish either a single module or multiple adjoining modules.
Jumpers: Jumpers can be used to share power from one input cable across multiple modules and are supplied in strips of 24. Ratchet jumper cutting tools also available contact sales.
End Stop: These modules feature a screw which tightens onto the DIN rail to stop modules sliding along the rail.
Accessories: Euro Omega DIN 35 Rails. Angled rail brackets. Protection covers. Test plugs. Complete range of marking tags.
Colour Options: Blue, Yellow/Green, Yellow, Orange, Red, Green, Black, Brown and White.
Extended Range: Terminal blocks to suit 10mm², 25mm², 50mm², 70mm², 95mm² cable sizes are also available.
Notes: Contact sales for further information.
Approvals:

Marking Tags
1 Stem # 43300

43525/24 - Insulated Jumper (2.5mm²)
Note: Optional cutting tool P/N: 43515

43520/24 - Insulated Jumper (4mm²)
Note: Optional cutting tool P/N: 43516

43621/24 - Insulated Jumper (6mm²)
Note: Can be seperated by hand, no tools required.

43408 Terminal Block 2.5mm²
44 (L) x 36 (H) x 5mm (W)
Connecting capacity: 12mm (CC)

43409 Terminal Block 4mm²
44 (L) x 36 (H) x 6mm (W)
Connecting capacity: 12mm (CC)

43401 Terminal Block 6mm²
50 (L) x 44 (H) x 7mm (W)
Connecting capacity: 18mm (CC)

43444 - End Bracket
55 (L) x 34 (H) x 6mm (D)
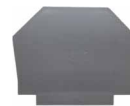
43010 - End Plate, Euro 2.5-4
44 (L) x 35 (H) x 1.5mm (D)

43011 - End Plate, Euro 6-10
50 (L) x 43 (H) x 1.5mm (D)

CC

Connecting
Capacity (CC)

POWER DIST.

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147
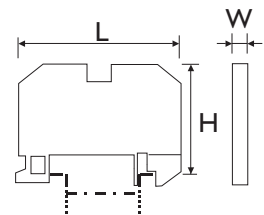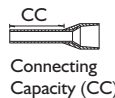
- Push in various circuit protection devices including auto blade fuses or bladed circuit breakers.
- Blocks can facilitate plug in modules. Module options include diodes, MOV's and cartridge fuses.
- Disconnector options include bladed plug or knife type for on / off switching of a circuit.
- Single or multiple pole terminal blocks with optional insulated and dividable jumper.
- Termination options include screw terminals, screw-less spring terminals or hybrid terminals.
- Marking accessories are a available for both the blocks and cables.
- 12V and 24V LED indication options.

Module;
Diode, MOV,
Fuse Cartridge

Disconnector **Auto Blade Fuses** **Auto Blade Breakers**

Marking Tags
Nbrs 1 - 1000
or Blank Tag

Optional LED
12V or 24V

Part Number	Description	Rating	Pack Size	L	H	W
				Dimensions in MM		
4358100	Auto Blade Fuse Module	25A, 300V	1/50	58.9	29.5	6
4358101	Auto Blade Fuse Module + 12V LED	25A, 300V	1/50	58.9	29.5	6
4358102	Auto Blade Fuse Module + 24V LED	25A, 300V	50	58.9	29.5	6
435G0520	M205 Cartridge Fuse Holder*	6.3A, 250V	20	40	16	6.1
435G6332	3AG Cartridge Fuse Holder*	6.3A, 300V	20	50	20	7.5
435K0000	Disconnector (Plug Type)	25A, 300V	1/50	19.2	20.4	5
43444	End Stop (Stops Modules Sliding).	-	1/100	55	34	6
43585	Separator / End Plate (1.5mm wide) ^	-	1/50	55	33	1.5
4358630	Separator / End Plate (3.0mm wide) ^	-	1/50	55	33	3.0
43509/12	Insulated Jumper 12 Pole (Pitch 9.1mm) ^	25A, 300V	1/12	-	-	-
43506/22	Insulated Jumper 22 Pole (Pitch 6.1mm)	25A, 600V	1/22	-	-	-
43300	Marking tags. Printed No. 1-10 (2 sets)		1/25	11.9	-	4.8	NEW
43310	Marking tags. Printed No. 1-100 (1 set)		1/5	11.9	-	4.8	NEW
43311	Marking tags. Printed No. 101-200 (1 set)		1/5	11.9	-	4.8	NEW
43192	Marking tags. Blank stem. 1 stem = 20 Marking Tags.		1/25	11.9	-	4.8	NEW

DIN Rail

12mm

Connecting Capacity
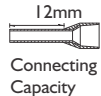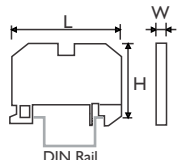
Mounting: DIN Rail 35 **Connection:** Screw standard. Optional cage clamp or hybrid connection.
Cable: 0.5mm^2 to 4mm^2 (#24-10AWG)
Optional Components: Mini fuse module, non-fused terminal block modules and Euro Omega DIN 35 Rails.
Jumpers: Jumpers can be used to share power from one input cable across multiple fuse modules and are supplied in strips of 12. They can be cut using the ratchet jumper cutting tool #43517. ^ One x 3.0mm or two x 1.5mm separator / end plates are required between each fuse module when using jumpers.
Fuse Modules: Feature 1 x open and 1x closed wall so only 1 x end plate is required to finish either a single module or multiple modules. Fuse modules accept both auto blade fuses and auto blade circuit breakers. Cartridge fuses can be fitted by purchasing the appropriate fuse holder module which plugs directly into the fuse module.
Fuse Holders: *One x 1.5mm separator / end plate is required between each adjoining fuse module.
End Stop: These modules feature a screw which tightens onto the DIN rail to stop modules sliding along the rail.

Blade Fuse / Breaker Modules
Wire fixing: 2 x screw connectors.
Optional 12V / 24V LED indicator.

Disconnector
(1) (2)
(1) Plug type. Push in / pull out.
(2) Knife type. Slidable.

Separator / End Plates
Separates terminal blocks.
Completes a row.
1.5mm or 3.0mm width options.

Plug In Component Modules
Cartridge Fuse Module. M205 or 3AG.
Diode Modules. Contact sales.
MOV / Surge Supply Module V130LA2.

Ratchet Tool - Cuts Plug In Jumpers
P/N: 43517 cuts jumper 9.1mm pitch.
P/N: 43516 cuts jumper 6.1mm pitch.
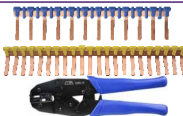
End Stop
Fitted to each end of a row of terminal blocks. Stops modules sliding on DIN rail.

POWER DIST.

CARTRIDGE FUSE TERMINAL BLOCKS DIN RAIL MOUNT

MORSETTITALIA

Part Number	Description	Conductor
43445H	M205 Fuse Block 4mm² 30A, 300V Max (CSA)*	Flexible (0.5-4mm²), Rigid (0.5-6mm²)
43433H	3AG Fuse Block 10mm² 30A, 600V Max (CSA)*	Flexible (1.5-10mm²), Rigid (1.5-16mm²)
43444	End Bracket (stop modules sliding on DIN rail)	
43300	Marking Tags. Printed No.1-10. 1 Stem = 20pcs	NEW
43310	Marking tags. Printed No. 1-100. 1 stem = 20pcs	NEW
43311	Marking tags. Printed No. 101-200. 1 stem = 20pcs	NEW
43192	Marking tags. Blank stem. 1 stem = 20 Marking Tags.	NEW
43097	Neutral Link Solid 5 x 20mm (M205 fuse size)	
43099	Neutral Link Solid 6.35 x 31.75mm (3AG fuse size)	

Mounting: DIN Rail 35
Connection: Slot screw terminals.
End Plates: Not required, enclosed holder.
End Stop: Optional
Accessories: Euro Omega DIN 35 Rails.
Extended Range: LED indicating versions also available.
Notes: Contact sales for further information.
Do not disconnect fuse under load. Fuses not included.
Approvals:

\# 43445H (UL)(15A / 300V), (30A / 300V), IEC (6.3A / 250V)
\# 43433H (UL)(30A / 600V), (30A / 600V), IEC (6.3A / 250V)

43445H - M205 Fused Terminal Block
66 (L) x 44 (H) x 10 (W)
Fuses contact sales.

43433H - 3AG Fused Terminal Block
82 (L) x 53 (H) x 10 (W)
3AG Fuses see p.11

POWER DISTRIBUTION BLOCKS - FINGER SAFE 1000V

EAT·N **Bussmann**

IP20 **NEW**

Features
• Enclosed, safer installation; IP-20 finger-safe under specific conditions.
• High Short-Circuit Current Ratings up to 200,000A: PDBs do not have to be the weak link in achieving high SCCR for an industrial control panel.
• Small footprint saves panel space.
• DIN rail or panel mount; *PDBFS330 & *PDBFS504 panel mount only.
• Sliding DIN rail latch for easy mounting.
• DIN rail end anchors required to prevent damage to block when torqueing.
• Elongated hole for panel mounting; easier mounting with greater flexibility.
• Captive termination screws; screws do not get misplaced.
• Wire ready: captive termination screws shipped backed out to save time on conductor installations.
• Single pole or gang mountable for multiple pole applications with interlocking dovetail accessory (optional). Part 2A1279: Interlocking dovetail pin accessory, one pin interlocks two units, two pins to interlock three units.

Multi Pole Dovetail Slide Lock Feature
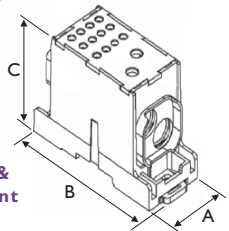
Panel Mount & DIN Rail Mount

Part Number	Ampere Rating	Configuration Openings Per Pole					
		Line		Line Wire Range	Load		Load Wire Range
PDBFS204	175A	1	▣	2/0 - 8AWG (70-10mm²)	1	▣	2/0 - 8AWG (70-10mm²)
PDBFS220	175A	1	▣	2/0 - 8AWG (70-10mm²)	4	▦	4/0 - 14AWG (25-2.5mm²)
PDBFS303	310A	1	▣	350kcmil - 6AWG (150-16mm²)	1	▣	350kcmil - 6AWG (150-16mm²)
PDBFS330*	380A	1	▣	500kcmil - 6AWG (240-16mm²)	6	▦	2 - 14AWG (35-2.5mm²)
PDBFS377	570A	2	▣▣	300kcmil - 4AWG (150-12mm²)	12	▦	4 - 14AWG (25-2.5mm²)
PDBFS500	620A	2	▣▣	350kcmil - 4AWG (185-12mm²)	2	▣▣	350kcmil - 4AWG (185-12mm²)
PDBFS504*	760A	2	▣▣	500kcmil - 6AWG (240-16mm²)	2	▣▣	500kcmil - 6AWG (240-16mm²)

Voltage: 690VAC/DC (IEC), 600VAC/DC (UL 1953), 1000VDC (factory self certified to UL 1059 Pt.II).
I.R.: Short-Circuit Current Ratings up to 200,000kA.
Body: UL 94VO.
Studs: Tin plated AL connectors suitable for CU conductors.
Dimensions and Pack Size: Please contact sales.
Approvals: (UL) IEC CE

Circuit Diagrams

PDBFS204
PDBFS303

PDBFS500
PDBFS504

PDBFS220

PDBFS330
PDBFS377 (x2)

PROLEC
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149

POWER DIST.

SCREW DOUBLE ROW TERMINAL BLOCKS

EAT·N **Bussmann**
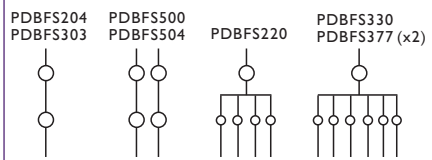
Features
• Allows fully insulated independent terminal blocks for applications where circuits must be isolated.
• Closed back design completely insulates power from the mounting surface.
• Each screw pair is one isolated circuit. Barriers separate all circuits.
• Terminal block jumpers allow creation of common circuits.

Part Number	Poles	Amp * Rating	Voltage	Diagram	Dimensions in MM A	B
TB200-04B	4	30	300V	1	63.8	55.4
TB200-06B	6	30	300V	1	85.9	77.8
TB200-08B	8	30	300V	1	108.0	99.9
TB200-10B	10	30	300V	1	130.4	122.3
TB200-12B	12	30	300V	1	152.4	144.2
TB300-04B	4	30	600V	2	82.6	71.4
TB300-06B	6	30	600V	2	111.1	100.2
TB300-08B	8	30	600V	2	139.8	128.6
TB300-10B	10	30	600V	2	168.3	157.3
TB300-12B	12	30	600V	2	197.0	185.8

TB200-10

Wire Range: #12 - 22 AWG CU (TB200 series)
    # 8 - 22 AWG CU (TB300 series)
Screw Size: #6-32 Philslot screws (TB200 series)
    #8-32 Philslot screws (TB300 series)
    (see other screw options below)
Operating Temperature: -40°C to 130°C
Base: UL rated 94V0 thermoplastic (black)
Breakdown Voltage: 4800V (TB200 series)
    7500V (TB300 series)
Terminal: Tin plated brass.
Screws: Nickel plated brass (Philslot) screws included.
Pack Size: Varies, please contact sales.
Note: *Maximum rating, some options may be rated lower, please contact sales.
Approvals: ⓢ ⓤ CE IEC

TB300-08

Diagram 1 (TB200 Series)
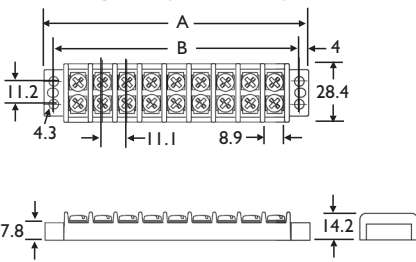
Diagram 2 (TB300 Series)
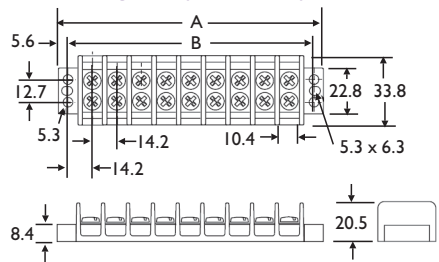
Jumper Options for TB200 / TB300

TB200 20A Jumpers	TB300 30A Jumpers	Description
J201-J	J301-J	Flat slip on
OJ7-J	OJ6-J	Closed over barrier

Note: Jumpers allow creation of common circuits.

Flat Slip On   **Closed Over Barrier**

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STUD JUNCTION TERMINAL BLOCKS #10-32

EAT•N **Bussmann**

Part Number	Nbr. of Positions	Dimensions in MM		
		A	B	C
C5237-1	1	50.8	31.7	-
C5237-2	2	66.7	47.5	15.9
C5237-3	3	82.5	63.4	31.7
C5237-4	4	98.4	79.4	47.5
C5237-6	6	130.8	111.1	79.4
C5237-8	8	161.9	142.9	111.11
C5237-10	10	193.7	174.6	142.9
C5237-12	12	225.4	206.4	174.6

Rating & Voltage: 30A at 600V (CSA)
30A at 300V (UL)
Body: Black Thermoplastic
Studs: Yellow zinc plated brass. #10-32 threaded studs on 0.625" (15.9mm) centers. Studs feature a "dog point" to guide nut onto thread.
Torque Rating: 2.8Nm max.
Mounting Holes: 9/32" x 3/8" Slot. (7.14mm x 9.52mm)
Hardware: Nuts & washers included.
Pack Size: Please call sales.
Temperature Rating: 120˚C
Features: Numbers & arrows molded on top of barriers to indicate terminals.
Notes: Extended range also available contact sales.
Approvals: 🅒 🅤 CE

Dimensions in MM

C5237
Mtg. holes 9/32"X3/8" slot
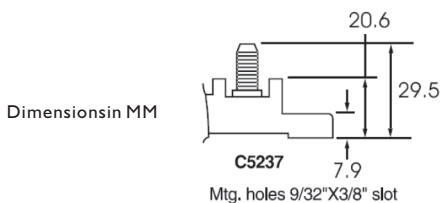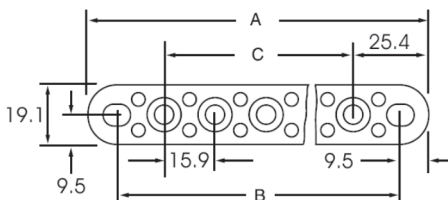
STUD JUNCTION TERMINAL BLOCKS #10-24

EAT•N **Bussmann**

Part Number	Nbr. of Positions	Dimensions in MM		
		A	B	C
C4559-2	2	76.2	57.1	19.0
C4559-3	3	95.2	76.2	36.1
C4559-4	4	114.3	95.2	57.1
C4559-5	5	133.3	114.3	76.2
C4559-6	6	152.4	133.3	95.2
C4559-8	8	190.5	171.4	133.3
C4559-10	10	228.6	209.5	171.4
C4559-12	12	266.7	247.6	209.5

Rating & Voltage: 30A at 600V
Body: Black Thermoplastic
Studs: Zinc plated steel. #10-24 threaded studs on 0.75" (19mm) centers. Studs feature a "dog point" to guide nut onto thread.
Torque Rating: 2.7Nm max.
Mounting Holes: 9/32" x 3/8" Slot. (7.14mm x 9.52mm)
Pack Size: Please call sales.
Options: Nuts & washers included.
Temperature Rating: 120°C
Features: Numbers & arrows molded on top of barriers to indicate terminals.
Approvals: 🅒 🅤 CE

Dimensions in MM

Mtg. holes 9/32" x 3/8" slot

E·T·N **Bussmann**
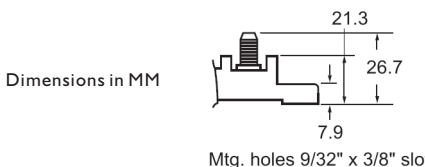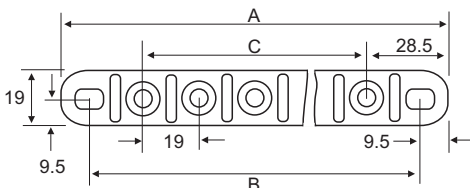
Heavy-duty ground or power connection points in AC or DC circuits.
Ideal for creating a centralized power distribution or grounding point.

C1933
1/2"-13 Stud

C1933R
1/2"-13 Stud

C1933-6B
3/8"-16 Stud

C1933-6R
3/8"-16 Stud

JB3816-2
3/8"-16 Stud

JB3816-3
3/8"-16 Stud

JB51618-2
5/16"-18 Stud

JB51618-3
5/16"-18 Stud

Part Number	Body Colour	Amp Rating	Thread Size M	Stud Material	Stud Plating	Dia.	A	B	C	D	E	F	H	K
C1933	Black	400A	1/2"-13	Brass	Zinc	1	69.8	36.6	31.7	38.1	28.6	9.5	4.8	50.8
C1933R	Red	400A	1/2"-13	Brass	Zinc	1	69.8	36.6	31.7	38.1	28.6	9.5	4.8	50.8
C1933-6B	Black	250A	3/8"-16	Brass	Zinc	1	69.8	36.6	31.7	38.1	28.6	9.5	4.8	50.8
C1933-6R	Red	250A	3/8"-16	Brass	Zinc	1	69.8	36.6	31.7	38.1	28.6	9.5	4.8	50.8
JB3816-2	Black	250A	3/8"-16	Steel	Zinc	2	54.0	24.9	15.9	22.2	17.5	7.9	1.6	34.9
JB3816-3	Red	250A	3/8"-16	Steel	Zinc	2	54.0	24.9	15.9	22.2	17.5	7.9	1.6	34.9
JB51618-2*	Black	250A	5/16"-18	Stainless	N/A	2	54.0	24.9	22.0	22.2	17.5	8.0	1.6	34.9
JB51618-3*	Red	250A	5/16"-18	Stainless	N/A	2	54.0	24.9	22.0	22.2	17.5	8.0	1.6	34.9

Dimensions in MM

47.6
28.6
K A
(4 x 5.6mm Mounting Holes)

Diagram 1

19.1
K A
(2 x 5.6mm Mounting Holes)

Diagram 2

F
H
M (thread size)
C B
G E D
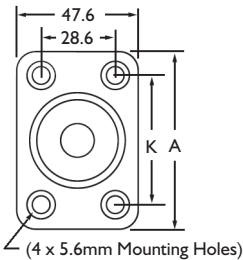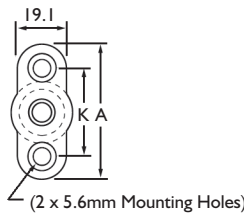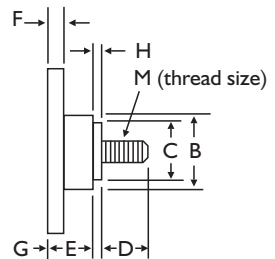
Voltage: AC / DC
Body: Thermoplastic (*Glass Filled Nylon)
Mounting Torque Rating: 5.4Nm max.
Hardware: Hex nut & spring washer supplied in bulk. Also available without hardware.
Pack Size: 1, 10, 50, 100
Notes: *JB51618-x rated 250A at 12VDC, 48VDC max.

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EAT•N Bussmann

Feed-Through blocks are designed to be used on a firewall or panel.

C1925B
1/2"-13 Stud

C1925
1/2"-13 Stud

C1925-2B
3/8"-16 Stud

C1925-2
3/8"-16 Stud

C1938-1
5/16"-18 Stud

C1938-1R
5/16"-18 Stud

C1938
3/8"-16 Stud

C1938R
3/8"-16 Stud

C2791
1/4"-20 Stud

C2791-R
1/4"-20 Stud

Part Number	Body Colour	Amp Rating	Thread Size M	Stud Mat.	Stud Plating	Dia.	Dimensions in MM									
							A	B	C	D	E	F	G	H	J	K
C1925B	Black	400A	1/2"-13	Brass	Zinc	1	69.8	38.1	31.7	31.7	28.6	9.5	28.6	4.8	4.8	50.8
C1925	Red	400A	1/2"-13	Brass	Zinc	1	69.8	38.1	31.7	31.7	28.6	9.5	28.6	4.8	4.8	50.8
C1925-1B	Black	400A	1/2"-13	Brass	Tin	1	69.8	38.1	31.7	31.7	28.6	9.5	28.6	4.8	4.8	50.8
C1925-1	Red	400A	1/2"-13	Brass	Tin	1	69.8	38.1	31.7	31.7	28.6	9.5	28.6	4.8	4.8	50.8
C1925-2B	Black	250A	3/8"-16	Brass	Tin	1	69.8	38.1	31.7	31.7	28.6	9.5	28.6	4.8	4.8	50.8
C1925-2	Red	250A	3/8"-16	Brass	Tin	1	69.8	38.1	31.7	31.7	28.6	9.5	28.6	4.8	4.8	50.8
C1938-1	Black	200A	5/16-18	Brass	Tin	2	52.4	23.8	17.5	22.2	17.5	7.9	23.8	1.6	1.6	33.3
C1938-1R	Red	200A	5/16-18	Brass	Tin	2	52.4	23.8	17.5	22.2	17.5	7.9	23.8	1.6	1.6	33.3
C1938	Black	250A	3/8"-16	Brass	Zinc	2	52.4	23.8	17.5	22.2	17.5	7.9	23.8	1.6	1.6	33.3
C1938R	Red	250A	3/8"-16	Brass	Zinc	2	52.4	23.8	17.5	22.2	17.5	7.9	23.8	1.6	1.6	33.3
C2791	Black	100A	1/4"-20	Brass	Zinc	3	52.4	17.5	11.2	15.9	17.5	7.9	17.5	1.6	1.6	33.3
C2791-R	Red	100A	1/4"-20	Brass	Zinc	3	52.4	17.5	11.2	15.9	17.5	7.9	17.5	1.6	1.6	33.3

(4 x 5.6mm Mtg. Holes)

Diagram 1

(2 x 5.6mm Mtg. Holes)
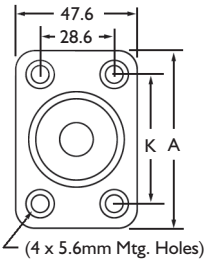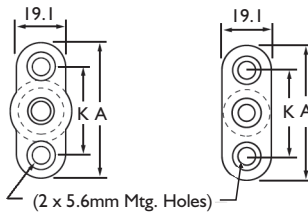
Diagram 2

Diagram 3

M (thread size)
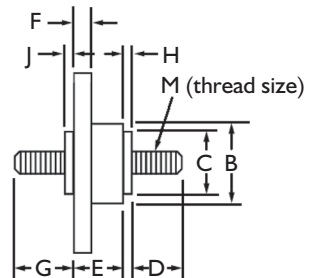
Voltage: AC / DC
Body: Thermoplastic
Studs: Brass
Mounting Torque Rating: 5.4Nm max.
Hardware: Hex nut & spring washer supplied in bulk. Also available without hardware.
Pack Size: 1, 10, 50, 100

POWER DIST.

PROLEC

3 WAY PASS THROUGH DISTRIBUTION BLOCK

EAT·N **Bussmann**

Designed to meet multiple power / ground requirements, the GB3000 provides 3 pass-thru M6 studs for easy cable attachment in both the cabin and engine compartment of your vehicle. These blocks provide robust connections, eliminates the need to stack cables and reduces associated warranty claims based on affiliated problems. The GB3000 also provides power distribution suitable for many feed thru applications in marine, construction, agriculture, bus, military, RV and specialty vehicles.

The GB3000 series block includes 2 bus bars (removable) to create a common single circuit across the 3 feed thru studs. The GB3001 series block does not include the 2 bus bars, provides power or ground feed thru for 3 individual circuits, one for each stud.

Part Number	Block Description	Current Rating	Body Colour
GB3000-1R	Single Circuit Feed Thru	200A Max Total	Red
GB3000-1B	Single Circuit Feed Thru	200A Max Total	Black
GB3001-1R	3 Circuit Feed Thru	60A Max Per Stud	Red
GB3001-1B	3 Circuit Feed Thru	60A Max Per Stud	Black

Amperage: See above.
Temperature Rating: -40°C to 85°C
Hardware: M6 nuts included.
Torque: M6 stud & mounting 5.6Nm max.
Current Carrying Studs: Zinc-plated brass.
Mounting Studs: Stainless steel.
Housing: Black UL rated 94V0 thermoplastic.
Cover Colours: Black or red.
Cover Material: Santoprene cover rated 94V0 for protection from accidental shorts.
Gasket: Included for ingress protection.
Black santoprene gasket rated 94V0.
Approvals: RoHS

Circuit Diagram Single Circuit Feed GB3000

Circuit Diagram 3 Circuit Feed GB3001

GB3000-1R

GB3000-1B
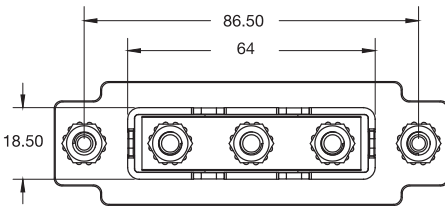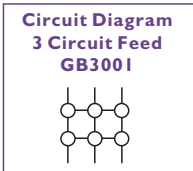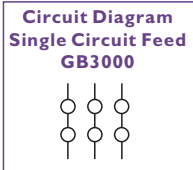
POWER DIST.

Pictured Without Cover
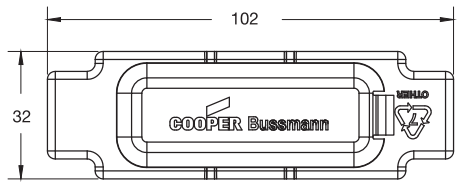
Dimensions in MM

Panel Cutout

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HEAVY DUTY BATTERY FEEDER STUDS 3/8"

Littelfuse®
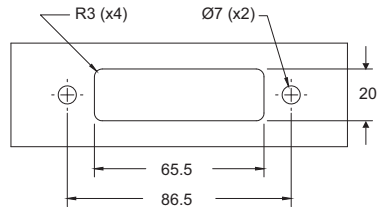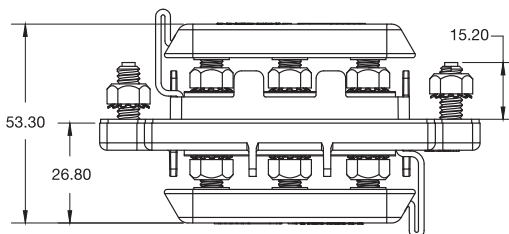
These battery feed studs are designed to bring power through fire walls and bulk heads.

Features
- Easy to install for quick distribution of power.
- Impact resistant threaded mount bushing.
- Self locking mounting nut.
- Suits panel up to 9mm thick.
- Colour coordinated to serve as easy-to-identify power points.

Part Number	Description
46211-R	3/8"-16 Feeder Stud Red Body
46211-01	3/8"-16 Feeder Stud Black Body

Hex Nut

Voltage: 6VDC to 36VDC
Current Ratings:
- Up to 250A (continuous) at 50mm² cable.
- Up to 600A for up to 20 seconds ON (10 minutes OFF).
Temperature Rise: (up to 400A at 24V) from 55.6°C to 67 °C using 0 AWG cable.
Stud: Brass.
Terminal Size: 3/8"-16, 5/8" (15.9mm) long.
Hardware: 2 x Lock washer and 2 x brass hex nut.
Plastic Insulator: PBT Valox 420 SEO.
Flammability Rating: V0-V2 UL94.
Bushing Size: 32.1mm diameter, 15.9mm length.

Panel Cutout
Ø33.32mm
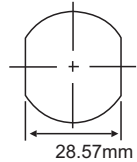
Body Diameter: 36mm
Overall Dimensions:
40 D x 40 W x 52 H(mm)

28.57mm

HEAVY DUTY BATTERY JUMPER STUDS 3/8"

Littelfuse®

A battery jumper studs allow direct connection to the battery at more easily accessible locations inside or outside the vehicle.

Double Nut

Features
- Easy to install for quick distribution of power.
- Impact resistant threaded mount bushing.
- Self locking mounting nut.
- Suits panel up to 9mm thick.
- Colour coordinated to serve as easy-to-identify power points.

Part Number	Description
46210-02	3/8"-16 Jumper Post, Red Band & 1 x Red Cap
46210-03	3/8"-16 Jumper Post, Black Band & 1 x Black Cap

Voltage: 6VDC to 48VDC
Current Rating: 285A (continuous) at 120mm² cable, with temperature rise 25°C above ambient.
Stud: Brass.
Stud Size: 3/8"-16 dia, (14.5mm) long.
Terminal Size: 13/16" (20.6mm)dia., 1-1/8" (29.9mm) long.
Contact Post: 20.6mm diameter, 28.8mm length.
Grooved double nut accepts standard jumper cables.
Body: Nylon 66
Hardware: 1 x Lock washer and 1 x brass hex nut.
        1 x Brass double nut.

Hex Nut

Panel Cutout
Ø33.32mm

Body Diameter: 36mm
Overall Dimensions:
40 D x 40 W x 67 H (mm)

28.57mm

LIGHT DUTY BATTERY FEEDER STUDS 1/4"

MIL·STD **NEW**

Suite smaller and lighter military grade pass thru for lower power application through a firewall or bulkhead.

Features
- High rating in a small package.
- High torque rating due to patented material, combination.

Part Number	Description
PTR-14D-05	1/4"-28 Stud Red Body Only
PTB-14D-05	1/4"-28 Stud Black Body only
OR-022	O-Ring Seal Black

Voltage: TBA
Rating: TBA
Grade: Commercial & Military   RoHS
Torque Rating: Body-Locknut-10 foot lbs.
Materials: Body-Nylon 66, Conductive-Core-Copper.
Studs: Stainless Steel.
Body: Locknut-Nylon 66.
Hardware: 2 x Serrated Flange Nut-Zinc Plated Steel.
Options: Locknuts.
O-Ring Material: Silicon
O-Ring Size: AS568-022 Standard
O-Ring Seal Dimensions:
　Internal Diameter: 1"　　(25.4mm)
　Outside Diameter: 1-1/8" (28.58mm)
　Cross Section:　　1/16" (1.59mm)
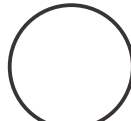
O-Ring Seal

Panel Cutout for 1/4" Studs

Ø 22.1mm

19.6mm
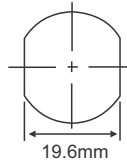
Serrated Flange Nut

Overall Dimensions:
51 D x 32 W x 36 H (mm)

HEAVY DUTY BATTERY FEEDER STUDS 3/8"

MIL·STD **NEW**

Military grade, power feed for applications through a firewall or bulkhead.

Features
- Higher electrical rating and lower resistance due to a larger cross sectional area and the utilization of a higher conductive material.
- Increased installation torque values resulting from our unique manufacturing.

Part Number	Description
PTR-38A-02	3/8"-16 Stud, Red Body & 2 x Red Caps
PTB-38A-02	3/8"-16 Stud, Black Body & 2 x Black Caps
C14-1003	Pass Thru Seal Black

Voltage: TBA
Rating: 400A (2/0 or larger wire).
Grade: Commercial & Military.
Torque Rating: Body-Locknut-10 foot lbs.
Body: Nylon 66, Locknut-Nylon 66.
Conductive Core: 110 Copper.
Hardware: 2 x 3/8"-16 Double Nuts Zinc Plated.
Studs: Stainless Steel.
Options: Locknuts & Serrated Flange Nuts..

Pass Thru Seal C14-1003

Ø 38.2mm

38.2mm

2.6mm   33.8mm
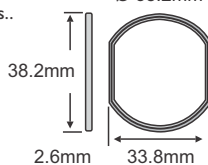
Panel Cutout for 3/8" Studs

Ø 33.4mm

28.7mm
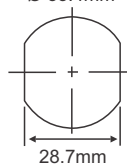
Double Nut

Overall Dimensions:
64 D x 38 W x 44 H (mm)

HEAVY DUTY BATTERY FEEDER STUDS 1/2"

MIL·STD NEW

Features:
- Military grade, heavy duty power feed for applications through Firewalls or bulkhead.
- Higher electrical rating and lower resistance due to a larger cross sectional area and the utilization of a higher conductive material.
- Increased installation torque values resulting from our unique manufacturing design and stud material choice.

Part Number	Description
PTR-12B-02	1/2"-13 Stud, Red Body & 2 x Red Caps
PTB-12B-02	1/2"-13 Stud, Black Body & 2 x Black Caps
C14-1003	Pass Thru Seal Black

Voltage: TBA
Rating: 500A (4/0 or larger wire)
Grade: Commercial & Military
Torque Rating: Retaining nut-40 foot lbs.
　　　　　　　　　Locknut-10 foot lbs.
Conductive Core: Copper.
Studs: Stainless Steel.
Body: Nylon 66.
Caps: PVC
Locknut: 1.5" Nylon 66.
Hardware: 2 x 1/2"-13 Double Nuts, Zinc Plated Steel.
Options: Steel Locknuts & Serrated Flange Nuts.
Approvals: RoHS

PTR-12B-02

**Pass Thru Seal
C14-1003**
Ø 38.2mm

38.2mm

2.6mm　33.8mm

Panel Cutout
Ø 33.4mm

28.7mm

Double Nut & Cap
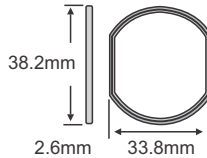
Overall Dimensions:
76 D x 38 W x 44 H (mm)
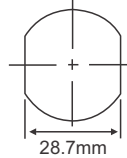
MAXIMUM DUTY BATTERY FEEDER STUDS 1/2"

NEW

Features:
- Commercial grade maximum duty power feed for high current applications through firewalls or bulkhead.
- Higher electrical rating and lower resistance due to a larger cross sectional area and the utilization of a higher conductive material.
- Increased installation torque values resulting from our unique manufacturing design and stud material choice.

Part Number	Description
PTR-12C-01	1/2"-13 Stud, Red Body & 2 x Red Caps
PTB-12C-01	1/2"-13 Stud, Black Body & 2 x Black Caps

Voltage: TBA
Rating: 1000A (500 MCM wire)
Grade: Commercial
Torque Rating: Locknut-10 foot lbs.
Conductive Core: 110 Copper.
Studs: Stainless Steel.
Body: Nylon 66
Caps: PVC
Locknut: 2.125" Nylon 66.
Hardware: 2 x 1/2"-13 Flange Nut Zinc Plated Steel.
Options: Steel Locknuts.
Approvals: RoHS

PTR-12C-01

Panel Cutout
Ø 48.3mm
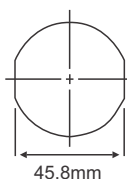
45.8mm

PTB-12C-01

Flange Nut & Cap

Overall Dimensions:
76 D x 54 W x 62 H (mm)

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Email: info@prolecproducts.com.au
Web: www.prolecproducts.com.au

STUD TYPE JUNCTION BLOCKS

PROLEC

Heavy-duty ground or power connection points for DC circuits. Compact profile with insulated base. Ideal for creating a centralized power distribution or grounding point.

Single Stud JBS

Part Number	Body Colour	Thread Size	Height A (mm)	Stud Amp Rating
JBSM6B	Black	M6	30	100A
JBSM6R	Red	M6	30	100A
JBSM8B	Black	M8	31	200A
JBSM8R	Red	M8	31	200A
JBSM10B	Black	M10	34	300A
JBSM10R	Red	M10	34	300A

Voltage: 48VDC max.
Body: Nylon, glass fibre reinforced.
Studs & Hardware: Stainless steel (included).

2 x Ø 4.5

43 32

A
11
45.3

Dimensions in MM
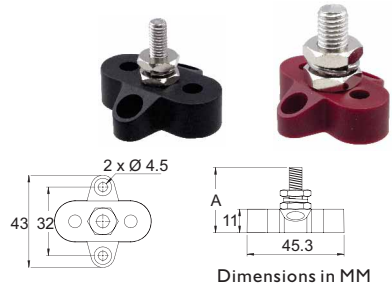
Dual Stud JBD

Part Number	Body Colour	Thread Size	Height A (mm)	Stud Amp Rating
JBDM6B	Black	2 x M6	30	100A
JBDM6R	Red	2 x M6	30	100A
JBDM8B	Black	2 x M8	31	200A
JBDM8R	Red	2 x M8	31	200A

Voltage: 48VDC max.
Body: Nylon, glass fibre reinforced.
Studs & Hardware: Stainless steel (included).

2 x Ø 4.5

43 32

A
11
45.3

26

Dimensions in MM
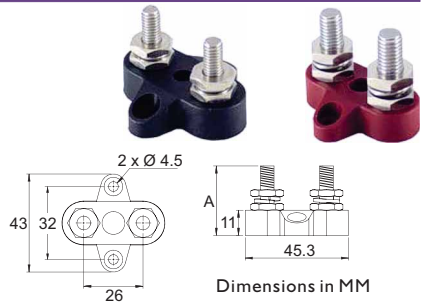
Dual Stud With 80A Busbar Link JBDB

Part Number	Body Colour	Thread Size	Height A (mm)	Stud Amp Rating
JBDBM6B	Black	2 x M6	30	100A
JBDBM6R	Red	2 x M6	30	100A
JBDBM8B	Black	2 x M8	31	200A
JBDBM8R	Red	2 x M8	31	200A

Voltage: 48VDC max.
Link Rating: 80A max.
Link Material: Nickel plated brass.
Body: Nylon, glass fibre reinforced.
Studs & Hardware: Stainless steel (included).

Feature
Includes busbar removable link.

2 x Ø 4.5

43 32

A
11
45.3

26

Dimensions in MM
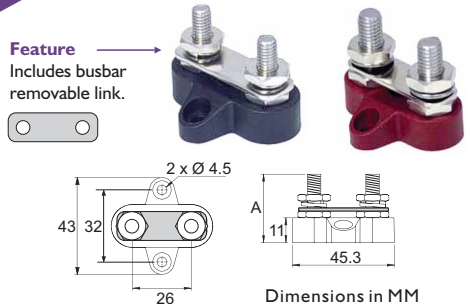
Dual Stud With Stud Barrier JBDPM

Part Number	Body Colour	Thread Size	Height A (mm)	Stud Amp Rating
JBDPM8B	Black	2 x M8	32.5	100A
JBDPM10B	Black	2 x M10	35.5	200A
JBDPM810B	Black	1 x M8 + 1 x M10	35.5	300A

Voltage: 48VDC max.
Body: Nylon, glass fibre reinforced.
Studs & Hardware: Stainless steel (included).
Notes: Provides a termination point for extending the length of harnesses or other conductors. Use dual entry cable insulators to protect from accidental short circuits.

Feature
Includes stud barrier.

2 x Ø 4.5

43 32

A
12.5
48.3

26

Dimensions in MM

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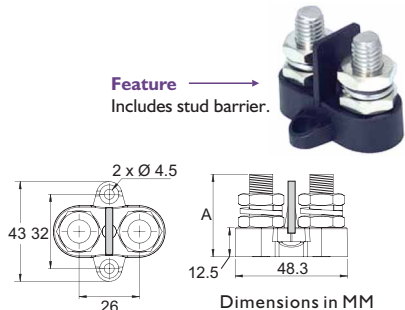
COMMON BUSBARS WITH COVER & LABELS

PRO*LEC*

- Heavy-duty busbars for ground or power connection points for DC circuits.
- Ideal for creating a centralized power distribution or grounding point.
- Compact profile with insulated base.
- All common busbars include sticker set and mounting hardware.

Mounting Hardware

DC GROUND
OUTBOARD
ELECTRONICS
DOMESTIC GND

Sticker Set

Single Row Busbar With M6 Studs

Part Number	Busbar Studs	Dimensions in MM A	B
BB4M6	4 x M6	146	101
BB6M6	6 x M6	206	161
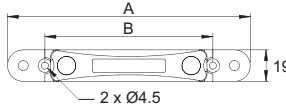
Voltage: 48VDC max. **Rating:** 100A
Body: Nylon, glass fibre reinforced.
Bus Material: Brass.
Studs & Hardware: Stainless steel (inc).
Cover: Transparent (included).

4 Way

6 Way
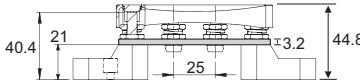
Single Row Busbar With M6 Studs & M4 Screws

Part Number	Busbar Screws	Dimensions in MM A	B
BB6M4	6 x M4	146	101
BB12M4	12 x M4	206	161
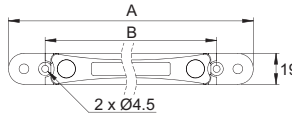
Voltage: 48VDC max. **Rating:** 150A
Body: Nylon, glass fibre reinforced.
Bus Material: Copper, Tin plated.
Studs: 2 x M6 (1/4")
Studs & Hardware: Stainless steel (inc).
Cover: Transparent (included).

6 Way

12 Way
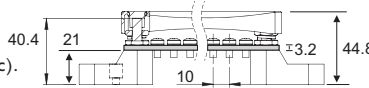
Dual Row Busbar With M6 Studs & M4 Screws

Part Number	Bus Bar	Busbar Screws	Dimensions in MM A	B
BBD6M4	Dual	2 x 6 x M4	118	107
BBD12M4	Dual	2 x 12 x M4	178	167

Voltage: 48VDC max. **Rating:** 150A
Body: Nylon, glass fibre reinforced.
Bus Material: Copper, Tin plated.
Studs: 4 x M6 (1/4")
Studs & Hardware: Stainless steel (inc).
Cover: Transparent (included).
Features: Removable connecting link to seperate or join the 2 bus bars.

12 Way

24 Way
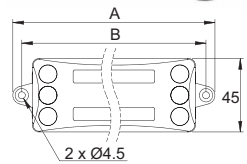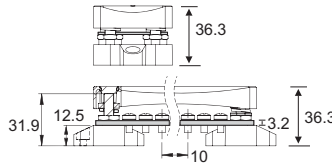
Dual Row Busbar Stepped With M6 Studs & M4 Screws

Part Number	Bus Bar	Busbar Screws	Dimensions in MM A	B
BBD6M4S	Dual	2 x 6 x M4	94	75
BBD12M4S	Dual	2 x 12 x M4	154	135

Voltage: 48VDC max. **Rating:** 150A
Body: Nylon, glass fibre reinforced.
Bus Material: Copper, Tin plated.
Studs: 4 x M6 (1/4")
Studs & Hardware: Stainless steel (inc).
Cover: Transparent (included).
Features: Stepped design, removable connecting 'Z' link to seperate or join the 2 bus bars.

12 Way

24 Way

Dimensions in MM
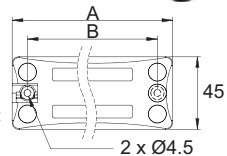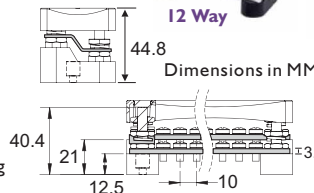
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COMMON BUSBAR MAXI

Littelfuse®

NEW

Features:
- Heavy duty busbar terminal block.
- Insert-molded stainless steel studs.
- One-piece serrated flange nuts
ensure correct and secure connection.

Part Number	Busbar Studs
880118	4 x 5/16"-18

Rating: 250A
Voltage: 300VAC / 48VDC
Body: Black
Bus Material: Tin plated copper
Studs: 5/16"-18 (M8)
Mounting Holes: 5mm
Pack Size: 1, 10, 50, 100

5/16"-18 Studs

18.4
48.0
149.0

37.9
Ø5.1
30.5
134.0
Ø10.8

Dimensions in MM

COMMON BUSBAR POWER

Littelfuse®
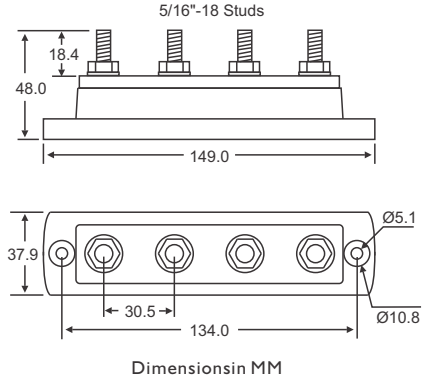
NEW

Features:
- Compact heavy duty busbar terminal block.
- Insert-molded stainless steel studs.
- One-piece serrated flange nuts ensure correct and secure connection.

Part Number	Busbar Studs
880097	2 x 3/8"-16

Rating: 600A
Voltage: 48V
Body: Glass reinforced polycarbonate
Studs: 3/8"-16 (M10)
Mounting Holes: #10 or M5 screws
Hardware: Stainless steel nuts & washers included.
Bus Link: Tin plated copper.
Pack Size: 1, 10, 50, 100

2 x 3/8-16 UNC
FOR 3/8"(M10)
TERMINAL
CONNECTIONS
41.28
21.54
69.85

31.75
2 x Ø 5.30
38.10
47.63

Dimensions in MM

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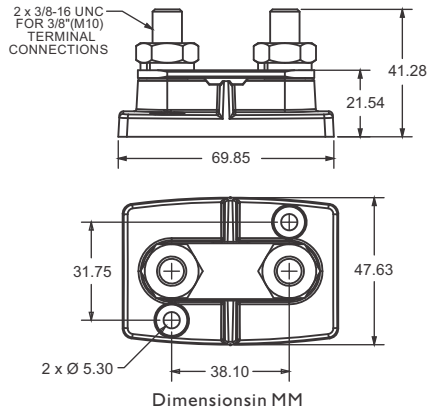
BATTERY TERMINALS DIE CAST

These terminals are designed for connecting a cable to a standard DIN post type battery. Available in both positive and negative versions. Optional cover fits the positive terminals.

Part Number	Polarity & Symbol	Description	"A" Dimension
1506270	Positive (+)	Saddle Terminal	25 to 50mm²
1506280	Negative (-)	Saddle Terminal	25 to 50mm²
1506120	Positive (+)	Stud Terminal	M10 Stud
1506130	Negative (-)	Stud Terminal	M8 Stud

Terminal: Die cast brass
Terminal Hardware: Included
Pack Size: 1, 10

Saddle Terminal Rear View

Saddle Terminal Top View

Stud Terminal with Wing Nut
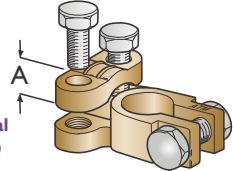
Saddle Terminal Dimension (A)

BATTERY TERMINALS STRIP TYPE

These terminals are designed for connecting a cable to a standard DIN post type battery. Available in both positive and negative versions. Optional cover fits the positive terminals.

Part Number	Polarity	Description & Colour	Cable Size
1506656	Negative	Terminal ■	10 to 20mm²
1506666	Negative	Terminal ■	25 to 40mm²
1506721	Positive	Terminal ■	10 to 20mm²
1506731	Positive	Terminal ■	25 to 40mm²
4410480	Positive	Cover ■	-

Terminal: Brass tin plated
Terminal Hardware: Steel zinc plated (M6)
Terminal Temperature Rating: -40°C to 120°C
Cover Material: PP
Pack Size: 1, 10

Negative Terminal (Black Band)

Positive Terminal (Red Band)

Positive Terminal Cover 4410480

20
40
64
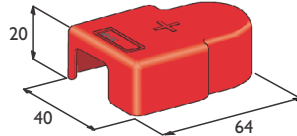
BATTERY TERMINAL DISTRIBUTION QUICK LOCK - 3 WAY

These double ring terminals are designed for quick hand release battery terminal disconnection. Available in two versions, stud only and stud + crimp combination.

Part Number	Polarity & Symbol	3 Connection Options
1507956	Negative (-)	M6 stud, M6 stud, Cable 25 to 40mm²

Terminal: Brass tin plated
Terminal Hardware: Steel zinc plated (M6)
Pack Size: 1, 10

M6
M6

2x Stud & 1x Crimp

POWER DIST.

BATTERY TERMINAL DISTRIBUTION UNIT - 3 WAY

Features
- Battery Distribution Units (BDU) for Positive or Negative battery terminal.
- Simple connection to battery top post terminal.
- Double ring battery terminal connection. Positive19mm / Negative 17mm.
- Two M6 studs and one M8 stud on the unit. Kit version includes terminals.
- Optional clip-on red colour protection cover, labelled with (+) symbol.

Part Number	Kit Contents
1507701K	3 Way Positive includes 3 x terminals & red cover. 1507701, 4510503, 2 x 1606770, 1606785
1507704K	3 Way Negative includes 3 x terminals (No cover). 1507704, 2 x 1606770, 1606785

Part Number	Individual component ordering
1507701	3 Way Positive battery distribution unit. (+)
4510503	Red Clip-on housing. Suit Positive BDU only. (+)
1507704	3 Way Negative battery distribution unit. (-)
1606770	M6 Screw 90 degree terminal 10-20mm².
1606785	M8 Screw 90 degree terminal 25-40mm².

BDU with Terminals Fitted

(+) BDU Kit
1507701K

(-) BDU Kit
1507704K

Red Clip-on Housing

82.6

55.3

42.7

Terminal 1606770
M6 hole 10-20mm²

Terminal 1606785
M8 hole 25-40mm²

38.3

49.1

Battery Distribution Unit

26.5   26.5
14.3
26.7   M6 M8 M6
19.5
A
18.3
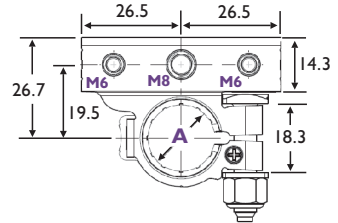
(+) Positive Terminal 'A' = 19mm
(-) Negative Terminal 'A' = 17mm

36.0
M6   M8   M6
20.0

Dimensions in MM

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POWER DIST.
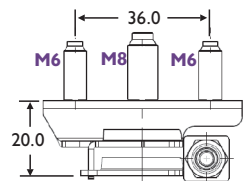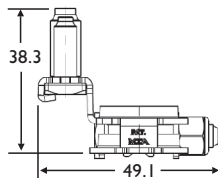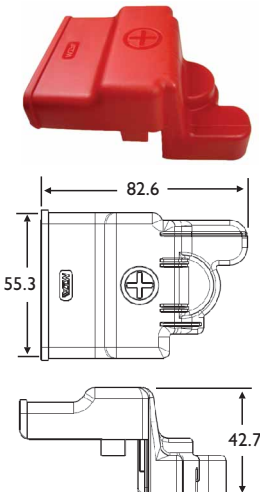
Relays, Switches, Breaker Panels & Tools

Designed for the application.

RELAY + SWITCH

163

ULTRA MICRO 280 RELAYS - 303 SERIES

Part Number	Voltage	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection
3031AHCR112	12V	SPST	20A	-	4 x 2.8mm	½W 1.1KΩ resistor
3031AHCR124	24V	SPST	10A	-	4 x 2.8mm	½W 4.3KΩ resistor

Contact Rating (Motor /Lamp) N/O: 16A (14VDC), In-rush 80A
Coil Current: 80mA (12V), 40mA (24V)
Coil Resistance: 150Ω (12V), 600Ω (24V)
Contact Voltage Drop: Typ. 50mV at 10A
Contact Material: Silver Tin Oxide alloy (AgSno)
Operate / Release Time: 10ms max. / 10ms max.
Enclosure: flux tight seal.
Temperature: -40 to +125°C (no freezing)
Mechanical Life Expectancy: 10 million operations.
Pack Size: 1pc, 10pcs, 100pcs, 500pcs.
Options: Sealed washable enclosure. Diode protection.
Suits Power Distribution Modules: Pages 120 - 128, 138-144.
Approval: ELV-2000/53/EC RoHS

Terminal Size
2.8mm

3031AHCR1 series
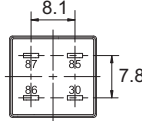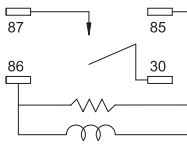
Dimensions in MM
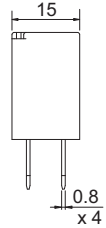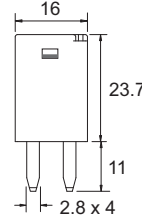
MICRO 280 RELAYS - 301 SERIES

Part Number	Voltage	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection
3011ACR112	12V	SPST	35A	-	4 x 2.8mm	½W 680Ω resistor
3011CCR112	12V	SPDT	35A	20A	5 x 2.8mm	½W 680Ω resistor
3011ACR124	24V	SPST	15A	-	4 x 2.8mm	½W 2700Ω resistor
3011CCR124	24V	SPDT	15A	10A	5 x 2.8mm	½W 2700Ω resistor

Coil Current: 97.5mA (12V), 49.6mA (24V)
Coil Resistance: 123Ω (12V), 483Ω (24V)
Contact Voltage Drop: Typ. 40mV at 10A
Contact Material: Silver Tin Oxide alloy (AgSno)
Operate / Release Time: 10ms max. / 10ms max.
Enclosure: flux tight seal.
Temperature: -40 to +125°C (no freezing)
Mechanical Life Expectancy: 10 million operations.
Pack Size: 1pc, 10pcs, 100pcs, 500pcs.
Options: Sealed washable / Dust cover enclosure. Diode protection.
Suits Power Distribution Modules: Pages 120 - 135, 138-146.
Approval: ELV-200/53/EC RoHS
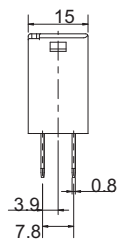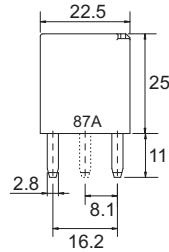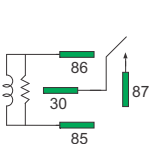
Terminal Size
2.8mm

3011ACR1 series

3011CCR1 series

Dimensions in MM
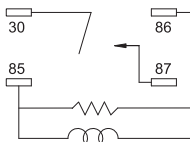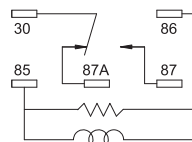
MINI 280 RELAYS - 898 SERIES

LONG CHUAN

Part Number	Voltage	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection	Bracket	Enclosure
898H1AHCR124	24V	SPST	20A	-	4 x 2.8mm	½W 2700Ω resistor	No	Flux Tight
898H1CHCR124	24V	SPDT	20A	15A	5 x 2.8mm	½W 2700Ω resistor	No	Flux Tight

Coil Current: 66.7mA (24V)
Coil Resistance: 360Ω (24V)
Contact Voltage Drop: Typ. 50mV at 10A
Contact Material: Silver Tin Oxide alloy (AgSno)
Operate / Release Time: 20ms max. / 20ms max.
Enclosure: flux tight seal.
Temperature: -40 to +125°C (no freezing)
Mechanical Life Expectancy: 10 million operations.
Pack Size: 1pc, 10pcs, 100pcs, 400pcs.
Approval: ELV-2000/53/EC RoHS
Notes: Product to be discontinued.

Dimensions in MM
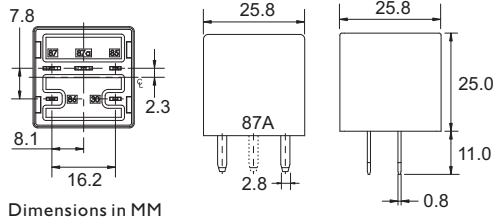
Terminal Size
2.8mm

898H1AHCR124 Series
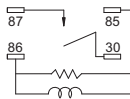
898H1CHCR124 Series
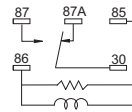
STANDARD FLASHER RELAYS

E·T·N Bussmann

These flashers work with standard bulbs and rely on electronic circuitry (not heat) to operate ensuring excellent performance in extreme climates. Flashes at twice the normal speed to indicate lamp outage, and features an audible click when engaged.

NO.761

Part Number	Flasher Type	Terminals	Electrical Rating	Number of Bulbs
NO.761	H-D Electronic	3 x 2.8mm	12.6A at 12VDC	2 to 4
NO.762	H-D Electronic	4 x 2.8mm	12.6A at 12VDC	3 to 6

Terminal Size
2.8mm

Dimensions in MM

Buss
HEAVY DUTY
ELECTRONIC
FLASHER
12 VOLT
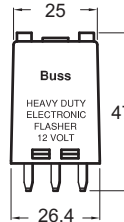
Scan this QR Code for more information

QR Code: 9024

LED FLASHER RELAYS

E·T·N Bussmann

The LED flashers should always be used with LED turn signals because they require less current. Using traditional thermal / mechanical flashers for LEDs will cause erratic operation by flashing too fast or too slow.

NO-762-LED

Part Number	Terminals	Electrical Rating	Number of Bulbs
NO-727-LED	5 x 6.3mm	12.6A at 12.8VDC	2 to 4
NO-758-LED	3 x 6.3mm	12.6A at 12.8VDC	2 to 6
NO-759-LED	3 x 6.3mm	12.6A at 12.8VDC	2 to 6
NO-760-LED	3 x 6.3mm	12.6A at 12.8VDC	2 to 4
NO-762-LED	4 x 2.8mm	12.6A at 12.8VDC	2 to 6

Scan this QR Code for more information

QR Code: 9023

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MICRO ISO RELAYS 871 SERIES

LONG CHUAN

Part Number	Volt	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection	Bracket	Enclosure
8711ACR112	12V	SPST	35A	-	2x 4.8mm, 2x 6.3mm	½W 680Ω resistor	No	Flux Tight
8711CCR112	12V	SPDT	35A	20A	3x 4.8mm, 2x 6.3mm	½W 680Ω resistor	No	Flux Tight
8711ACR124	24V	SPST	15A	-	2x 4.8mm, 2x 6.3mm	½W 2700Ω resistor	No	Flux Tight
8711CCR124	24V	SPDT	15A	10A	3x 4.8mm, 2x 6.3mm	½W 2700Ω resistor	No	Flux Tight

Coil Current: 97.5mA (12V), 49.6mA (24V)
Coil Resistance: 123Ω (12V), 483Ω (24V)
Contact Voltage Drop: Typ. 40mV at 10A
Contact Material: Silver Tin Oxide alloy (AgSno)
Operate / Release Time: 10ms max. / 10ms max.
Enclosure: Flux tight.
Temperature: -40 to +125°C (no freezing)
Mechanical Life Expectancy: 10 million operations.
Pack Size: 1pc, 10pcs, 100pcs, 500pcs.
Options: Sealed Washable / Dust cover enclosure.
Diode protection. RoHS
Approval: ELV-2000/53/EC
Suits Holders & Blocks: Pages 137-138, 170.
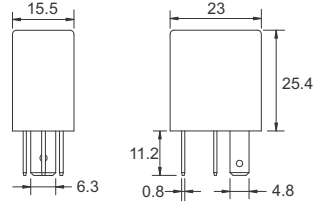
Dimensions in MM
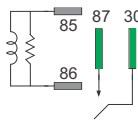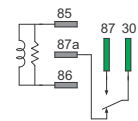
Terminal Sizes
4.8mm
6.3mm (1/4")

8711ACR1 series

8711CCR1 series

MINI ISO RELAYS 896H SERIES

LONG CHUAN

| Part Number	Volt	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection	Bracket	Enclosure
896H1AHCR112	12V	SPST	50A	-	4 x 6.3mm	½W 680Ω resistor	No	Flux Tight
896H1CHCR112	12V	SPDT	50A	30A	5 x 6.3mm	½W 680Ω resistor	No	Flux Tight
896H2AHCR112	12V	DPST	2 x 30A	-	5 x 6.3mm	½W 680Ω resistor	No	Flux Tight
896H1AHCR124	24V	SPST	20A	-	4 x 6.3mm	½W 2700Ω resistor	No	Flux Tight
896H1CHCR124	24V	SPDT	20A	15A	5 x 6.3mm	½W 2700Ω resistor	No	Flux Tight
896H2AHCR124	24V	DPST	2 x 10A	-	5 x 6.3mm	½W 2700Ω resistor	No	Flux Tight NEW

Coil Current: 133mA (12V), 66.7mA (24V)
Coil Resistance: 90Ω (12V), 360Ω (24V)
Contact Voltage Drop: Typ. 50mV at 10A
Contact Material: Silver Tin Oxide alloy (AgSno)
Operate / Release Time: 20ms max. / 20ms max.
Enclosure: Flux tight.
Temperature: -40 to +125°C (no freezing)
Mechanical Life Expectancy: 10 million operations.
Pack Size: 1pc, 10pcs, 100pcs, 400pcs, 1200pcs.
Options: Sealed Washable / Dust cover enclosure. Diode protection.
Approval: ELV-2000/53/EC RoHS
Suits Holders & Blocks: Pages 137-138, 170 - 172.

All Terminals
6.3mm (1/4")
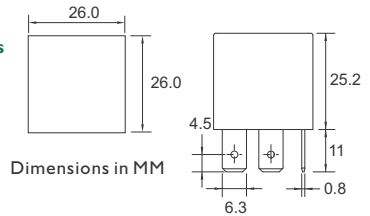
Dimensions in MM

896H1AHCR1 series

896H1CHCR1 series

**896H2AHCR1 series
Double Pole (N/O)**

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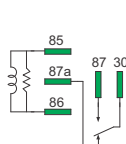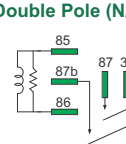
MINI ISO BRACKET MOUNT RELAYS 896H SERIES

Part Number	Volt	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection	Steel Bracket	Enclosure
896H1AHC1SR112	12V	SPST	50A	-	4 x 6.3mm	½W 680Ω resistor	Yes	Sealed
896H1CHC1SR112	12V	SPDT	50A	30A	5 x 6.3mm	½W 680Ω resistor	Yes	Sealed
896H1AHC1SR124	24V	SPST	20A	-	4 x 6.3mm	½W 2700Ω resistor	Yes	Sealed
896H1CHC1SR124	24V	SPDT	20A	15A	5 x 6.3mm	½W 2700Ω resistor	Yes	Sealed

All Terminals
▬ 6.3mm (1/4")

Dimensions in MM
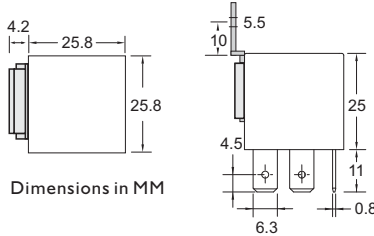
Removable Steel Bracket

MINI ISO BRACKET MOUNT SKIRTED RELAYS 896H SERIES

Part Number	Volt	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection	Steel Bracket	Enclosure
896H1CHD1SWR112	12V	SPDT	50A	30A	5 x 6.3mm	½W 680Ω resistor	Yes	Skirt W/Proof
896H1CHD1SWR124	24V	SPDT	20A	15A	5 x 6.3mm	½W 2700Ω resistor	Yes	Skirt W/Proof

Relay Circuit Diagram

87 87A 85
86   30

All Terminals
▬ 6.3mm (1/4")

Notes: Wiring connector also available (page 172).

Dimensions in MM
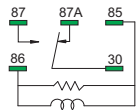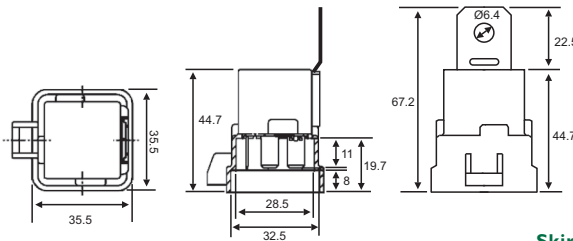
Skirted Relay with Removable Steel Bracket

MINI ISO RELAY FUSE HOLDER COVER & BRACKET

Part Number	Volt	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection	Suits Fuse. Not Included	Steel Bracket	Fuse Cover
995850	12V	SPST	30A	-	4 x 6.3mm	resistor	30A Auto Fuse	Yes	Yes
995870	24V	SPST	15A	-	4 x 6.3mm	resistor	15A Auto Fuse	Yes	Yes

RELATED PRODUCTS:

Auto & LED Auto Fuses
(see p.17)

Dimensions in MM
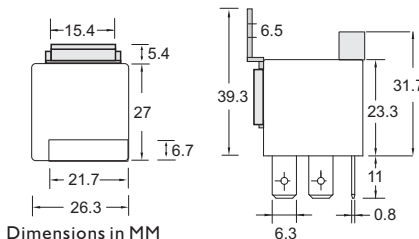
Clear Fuse Cover with Removable Steel Bracket

RELAY + SWITCH

MAXI ISO RELAYS 897 SERIES

ONG CHUAN

Part Number	Volt	Contact Action	Ampere Rating N/O	N/C	Terminals	Protection	Bracket	
8971AHCR112	12V	SPST	70A	-	4x 6.3mm, 2x 9.5mm	½W 680Ω resistor	-	
8971AHC1SR112V	12V	SPST	70A	-	4x 6.3mm, 2x 9.5mm	½W 680Ω resistor	Metal	NEW
8971AHCR124	24V	SPST	25A	-	4x 6.3mm, 2x 9.5mm	½W 2700Ω resistor	-	
8971AHC1SR124V	24V	SPST	25A	-	4x 6.3mm, 2x 9.5mm	½W 2700Ω resistor	Metal	NEW

Coil Current: 133mA (12V), 66.7mA (24V)
Coil Resistance: 90Ω (12V), 360Ω (24V)
Contact Voltage Drop: Typ. 30mV at 10A
Contact Material: Silver Tin Oxide alloy (AgSno)
Operate / Release Time: 20ms max. / 20ms max.
Enclosure: Flux Type.
Temperature: -40 to +125°C (no freezing)
Mechanical Life Expectancy: 10 million operations.
Pack Size: 1pc, 10pcs, 100pcs, 400pcs.
Options: Sealed type washable, dust cover & diode protection.
Suits Holders & Blocks: Pages 138, 170 - 171.
Approval: ELV-2000/53/EC RoHS

8971AHCR1 series

87
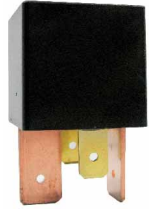
Terminal Sizes
6.3mm (1/4")
9.5mm (3/8")

86 30 85
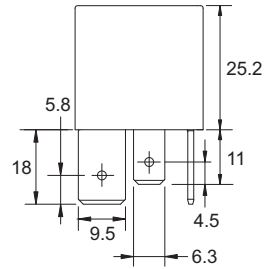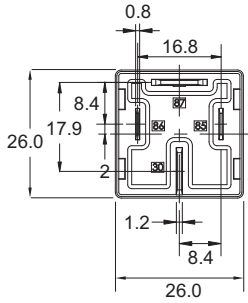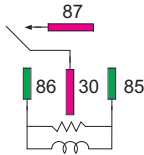
Dimensions in MM

POWER RELAYS

Littelfuse

IP67 NEW

These Power Relays can switch high power loads on/off to electrical accessories using a separate remote switch and well suited for use in commercial vehicles and heavy trucks.

12V Power Relay (P/N: 05903300)
Designed for use in 12V circuits, it can supply intermittent current loads up to 200A and continuous current loads up to 120A max.

24V Power Relay (P/N: 05903500)
Designed for use in 24V circuits, it can supply intermittent and continuous current loads up to 100A max.

30 85 86 87
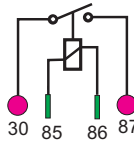
Terminal Sizes
6.3mm (1/4")
M6 stud

Part Number	Volt	Contact Action	Amperage	Terminals
05903300	12V	SPST	200A*	2x 6.3mm Q.C, 2x M6
05903500	24V	SPST	100A	2x 6.3mm Q.C, 2x M6

Contact Material: Silver Plated Copper
Terminals: M6 Tin-plated Brass
Hardware: Brass contact nuts
Bracket: Plastic
Temperature: -40 to +100°C
Pack Size: 1pc, 10pcs.
Notes: *Continuous current load 120A max.

M6

Dimensions in MM

PROLEC

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Web: www.prolecproducts.com.au
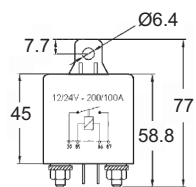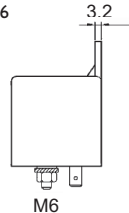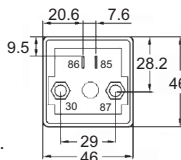
SD BI-STABLE RELAY WITH AUXILIARY CONTACTS

Littelfuse®

NEW
IP69K
IP66

The SD series relay provides remote power switching for applications that require high continuous current passage, large engine starting needs and high ambient temperatures. Relay switching is controlled via a plug-in connector (with small cables) to switch 1 or 2 high amp circuits. The 2 pole version suits dual battery configurations.The SD series relay helps reduce your costs and saves weight by positioning the relay close to the battery and high current loads to reduce heavy copper cable routing. Applications include; Heavy Duty Trucks and Lifting Equipment, Construction & Agricultural Equipment.

Features:
- Compact footprint saves space in your installation.
- Supports US DOT 11579 and EU ADR requirements for hazmat vehicle compliance.
- Plug-in connector controls relay switching and provides additional circuits and features.
- Dedicated 24-hour output to power your tachograph or other keep-alive functions.
- Local and remote indication of the state of the relay.
- Bi-stable internal mechanism draw no current in the on or off state saving your batteries voltage supply.

Part Number	Switch Circuit	No. Poles	Control Voltage	Contact Voltage	Continuous Rating	Inrush Current
880103	SPST	Single	9V - 16V	9V - 32V	600A	2000A x 30sec., 3000A x 1sec.
880107	DPST	Double	12V - 24V	9V - 32V	600A (2 x 300A)	1000A x 30sec., 2000A x 1sec.

Scan this QR Code for more information

QR Code: 12001

Power out
LED Status
Remote Connector
Power in
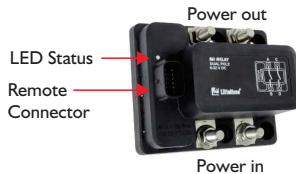
HD BI-STABLE RELAY WITH AUXILIARY CONTACTS

Littelfuse®

NEW
IP69K
IP67

The HD Series Bi-Stable Relay is designed to supply high continuous current to electrical accessories on a vehicle eg. large invertor loads. It is designed for use in harsh weather, high shock and vibration environments as well as high ambient temperatures. The HD Relay is controlled using a remote switch that is connected to the relay via small gauge cable. The HD Relay delivers high performance in a compact size, perfect for heavy-duty vehicles, lifting, construction & agriculture equipment, military vehicles etc.

Features:
- Remotely-operated device eliminates long runs of heavy cable, minimizes cabling complexity, cost and weight.
- Bi-stable (latched) operation draws no current in On or Off. Eliminates a continuous demand on the batteries.
- LED output wire enables remote indication of relay status – Open or Closed.
- Silver alloy contact assure the lowest voltage drop / resistance and extends cycling life of the device.
- Stainless steel hardware and tin-plated copper contacts maximize resistance in harsh environments.
- Eliminates routing of heavy gauge cables to user-accessible mechanical disconnect switches, lowering system costs.
- Supports high-amp intermittent or continuous current loads.

Part Number	Description	Voltage	Continuous Rating
880086	Relay Module	12V	300A
880088	Relay Module	24V	300A
880092	Remote Switch		

Scan this QR Code for more information

QR Code: 12002

Remote Control Switch

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Web: www.prolecproducts.com.au

MICRO RELAY HOLDER KIT - SINGLE (4 OR 5 PIN)

Part Number
990401K

Micro Relay Kit includes;
1 x Micro relay holder with bracket mount
3 x Terminals TBA mm² (F4.8mm) 999060
2 x Terminals TBA mm² (F6.3mm) 999070

RELATED PRODUCTS:
ISO Micro Relays see page 166

15.5
Ø5.2
36
32   21.3
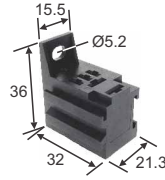
Dimensions in MM

MINI RELAY HOLDER KIT - SINGLE (4 OR 5 PIN)

Part Number
990421K

Mini Relay Kit includes;
1 x Mini relay holder with bracket mount
5 x Terminals TBA mm² (F6.3mm) 999070

RELATED PRODUCTS:
ISO Mini Relays see page 166

27
Ø 5.2
36
36   32.9
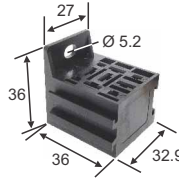
Dimensions in MM

MAXI RELAY HOLDER KIT - SINGLE (4 PIN)

Part Number
990411K

Maxi Relay Kit includes;
1 x Maxi relay holder with bracket mount
2 x Terminals TBA mm² (F6.3mm) 999070
2 x Terminals TBA mm² (F9.5mm) 999080

RELATED PRODUCTS:
ISO Maxi Relays see page 168

27
Ø5.5
45
38   33.3
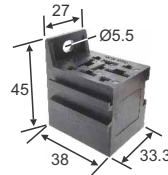
Dimensions in MM

AUTO FUSE HOLDER CONNECTOR KIT - SINGLE

Part Number
990431K

Auto Fuse Kit includes;
1 x Auto fuse holder with bracket mount
2 x Terminals TBA mm² (F6.3mm) 999000

**RELATED
PRODUCTS:**

Auto Fuses
(see p.17)

Fuse Cover 00359
(see p.68)

9.2
Ø5.5
36
36   15

Dimensions in MM
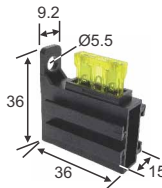
Voltage: 32VDC
Pack Size: 1, 10, 50, 100
Features: Gangable.
Approvals: RoHS

Slide lock fuse holder and relay connectors together to create a fuse and relay bank.

MINI RELAY CONNECTOR KIT - SINGLE (4 OR 5 PIN)

Part Number	Description
10246K	Mini Relay Socket Connector Kit includes;
	1 x 10246 (Mini relay connector)
	5 x 01650BK (Terminals 1-2.5mm² 20A, F6.3mm)

Voltage: 32VDC
Pack Size: 1, 10, 100
Approvals: RoHS

RELATED PRODUCTS:
ISO Mini Relays see page 166

26   23
25

Dimensions in MM
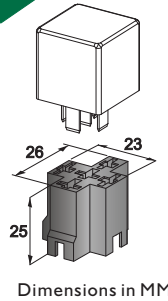
MINI RELAY HOLDER KIT - SINGLE (4 OR 5 PIN)

Part Number	Description
50135K	Mini Relay Holder Kit includes;
	1 x 10245 (Mini relay holder)
	1 x 00430 (Fixing plate single screw)
	5 x 01650BK (Terminals 1-2.5mm² 20A, F6.3mm)

Voltage: 32VDC
Pack Size: 1, 10
Features: Gangable.
Approvals: RoHS

RELATED PRODUCTS:
ISO Mini Relays see page 166

27.5   31.3
26.8

Dimensions in MM
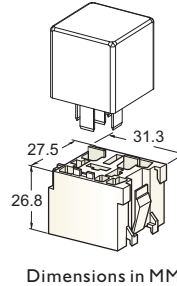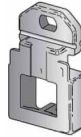
MAXI RELAY HOLDER KIT - SINGLE (4 PIN)

Part Number	Description
50136K	Maxi Relay Holder Kit includes;
	1 x 10247 (Maxi relay holder)
	1 x 00430 (Fixing plate single screw)
	2 x 07000BK (Terminals 0.5-1.5mm² F6.3mm)
	2 x 01720BK (Terminals 6-10mm² F9.5mm)

Voltage: 32VDC
Pack Size: 1, 10
Features: Gangable.
Approvals: RoHS

RELATED PRODUCTS:
ISO Maxi Relays see page 168

27.5   34.5
34.5

Dimensions in MM
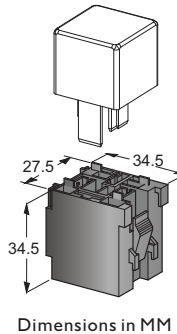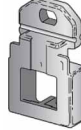
RELAY + SWITCH

Many of MTA's products feature a snap lock wall design. This allows products to be expanded or combined. Use this clever feature to create your own custom combination of fuses and relays.

Snap Mount Fixing Plate
(see p.78-79)

Screw Mount Fixing Plate
(see p.78-79)

Slide Lock M & F Bolt Down Brackets
(see p.78-79)

Slide Lock Fuse Holders
(see p.78-79)

Slide Lock Relay Holders
(as above)

Lateral Lock To Modules
(see p.137 & 141)

MINI RELAY SEALED CONNECTOR (4 OR 5 PIN)

GEP POWER PRODUCTS

IP66 **NEW**

The Series PTSR-X Push-to-Seat sealed relay connector is specifically designed to accept standard Mini ISO skirted relays, Delphi 630 Metri-Pack terminals and 480 Metri-Pack seals. This uniquely designed sealed unit features a Push-to-Seat connection system. Terminals are crimped to cable, then pushed into base of unit. This eliminates the costly labor intensive "5 step" pull-to-seat assembly approach required by other connectors.

Connector shown assembled with skirted mini ISO relay.

Features:
- Sealed, Ingress Protection Rated IP66.
- Labor saving "Push to Seat" connection system.
- Molded in rugged polyester thermoplastic material.
- Finger release latch.
- Accepts any wire size, in any cavity using Aptive 630 Metri-Pack sealed push to seat terminals together with 480 Metri-Pack seals.

Part Number	Kit Contents;
PTSR-KIT	1 x Connector with Seal Assembly
	1 x Blue TPA Term. Pos. Assurance
	2 x Terminals (20-18AWG)
	2 x Yellow Seals (18AWG)
	3 x Terminals (12-10AWG)
	3 x Orange Seals (10AWG)
	1 x Cavity Plug Grey

PTSR-KIT Connector Kit

Part Number	Description
PTSR-A	Connector with Red Silicon Seal Assembly.
PTSR-T	Terminal Position Assurance (TPA) Blue Nylon.
15317331	Terminal Female Sealed Tin (10AWG) 4.0 - 6.0mm^2
12052456	Terminal Female Sealed Tin (12-10AWG) 3.0 - 5.0mm^2
12052455	Terminal Female Sealed Tin (16-14AWG) 1.0 - 2.0mm^2
12052457	Terminal Female Sealed Tin (20-18AWG) 0.5 - 0.8mm^2
15324987	Cable Seal Orange (10AWG) 4.40 - 5.16mm Cable Dia.
15324990	Cable Seal Purple (12AWG) 3.61 - 4.50mm Cable Dia.
15324989	Cable Seal Red (14AWG) 2.81 - 3.76mm Cable Dia.
15324988	Cable Seal White (16AWG) 2.01 - 2.85mm Cable Dia.
15324991	Cable Seal Yellow (18AWG) 1.60 - 2.15mm Cable Dia.
35232480	Cavity Plug Grey 9.05mm Diameter

PTSR-A Connector

PTSR-T TPA

Terminals

Cable Seals

Cavity Plug

Voltage: 32VDC
Base Material: Polyester thermoplastic
Seal Material: Silicon
TPA Material: Nylon
Terminals: Tin Plated Brass Metri-Pack 630.
Cable Seals & Cavity Plug: Silicone.
Pack Size: 1, 10, 100, 500
Approvals: RoHS

32.0

7.2

22.5

41.0

40.8

38.2

Dimensions in MM

RELAY + SWITCH

PROLEC

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Web: www.prolecproducts.com.au
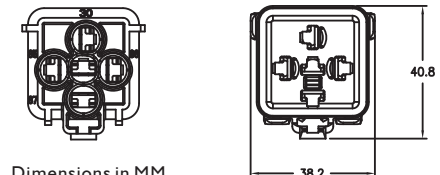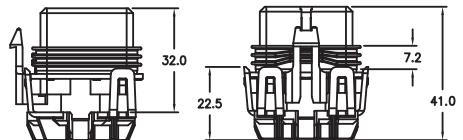
CIRCUIT BREAKER / SWITCH PANELS

Prolec offer a range of three standard black powder coated panels that can accommodate either 4 or 6 of the Series 24 switches or switchable circuit breakers. These panels can be mounted either vertically or horizontally.

Features

- Australian designed and manufactured..
- Panels can be mounted either vertically or horizontally.
- Quick assembly. Snap mount components include switch or circuit breaker.
- Mount via 4 x 4mm holes. Black pan head screws included.
- Strong panel is 2mm aluminum black powder coated.
- 4 Way mounting orientation.
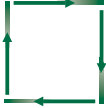
PROPNL24S4WB

PROPNL24S6WB

Part Number	Description
PROPNL24S4WB	4 Positions Panel (130mm x 100mm)
PROPNL24S6WB	6 Positions Panel (190mm x 100mm)
24HP2151	Breaker Switch Hole Plug Blank **NEW**

Custom Panels

Prolec can create custom panels and labelling to suit any components or layout. Custom panels can be produced in a variety of materials, thicknesses and labelled with your own design & branding. Contact sales for further information.

24HP2151

Example of a 6 Way Custom Panel

RELATED PRODUCTS:

2410-100 Series
(See p.55)

2410-102 Series
(See p.55)

Alternative Switch or Switch Circuit Breaker Options

CIRCUIT BREAKER PUSH TO RESET DISTRIBUTION PANEL

Prolec now offers a new Australian designed and made range of standard blank black powder coated panels that suit the Series 14, 15 and 16 panel mount manual reset circuit breakers. These panels can be mounted either vertically or horizontally. Adhesive stickers can be added to the panel or it can be custom screen printed or a full colour branded label can be fitted over the entire panel. Circuit breaker thread size 3/8"-27. Components are screw mount. Electrical connection options are quick connect or screw terminal. Includes mounting hardware black counter sunk screws. Circuit breakers are not included.

PROPNL14S12WB

Part Number	Description
PROPNL14S12WB	12 Position Blank Panel (185mm x 110mm)
14HP38	Circuit Breaker Hole Plug 3/8" (9.5mm)
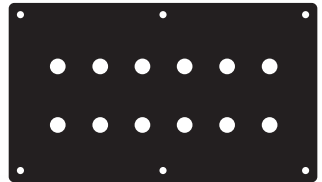
RELATED PRODUCTS:

Circuit breakers page 54
(Bushing specification 3/8"-27)
Circuit breaker boots page 54

Hole Plug

Circuit Breaker

Boot

Example of a loaded breaker panel.

Carling Technologies®
Innovative Designs, Powerful Solutions.

Switch Units

Part Number	Switch Type	Switching*	LED Indication	Rating
V1D1001	Single Pole	On / Off	Blue Backlight / Green On	12VDC, 20A
V2D1001	Single Pole	(On) / Off	Blue Backlight	12VDC, 20A
V8D1001	Single Pole	(On) / Off / (On)	Blue Backlight	12VDC, 20A

*(ON) = Momentary switch, must be held in ON position.

IGNITION PROTECTED

IP66

IP68

Switch Actuators Contura II

Part Number	Actuator Type	Marking
VAAC001	Square & Bar Lens	(No Marking)
VAAC002	Square & Bar Lens	Air Compressor
VAAC003	Square & Bar Lens	Front Locker
VAAC004	Square & Bar Lens	Rear Locker
VAAC005	Square & Bar Lens	Fog Lights
VAAC006	Square & Bar Lens	Driving Lights
VAAC007	Square & Bar Lens	Reverse Lights
VAAC008	Square & Bar Lens	Interior Light
VAAC009	Square & Bar Lens	Roof Lights
VAAC010	Square & Bar Lens	LED Light Bar
VAAC011	Square & Bar Lens	Work Lights
VAAC012	Square & Bar Lens	Accessories
VAAC013	Square & Bar Lens	Winch Isolator
VAAC014	Square & Bar Lens	Fuel Transfer
VAAC015	Square & Bar Lens	Auxiliary Lights
VAAC016	Square & Bar Lens	Auxiliary Battery
VAAC017	Square & Bar Lens	Power
VAAC018	Square & Bar Lens	12V Outlet
VAAC019	Square & Bar Lens	Battery Parallel
VA9C002	Square Lens Only	Winch
VA9C003	Square Lens Only	Horn
VVPZC00-000	Laser Etchable	Blank / Custom **NEW**

Square Lens (With Markings) →

Product Detail →

Bar Lens →

Daytime (Not Lit)

Daytime (Illuminated)

Nighttime (Illuminated)

Completed Switch Actuator + Switch Unit

Switch Actuator Contura V Laser Etchable Rear Lense

Mounting Panel Brackets & Accessories

Part Number	Accessory Description
VMS01	Stand-alone Mounting Panel Bracket. No Further Parts Required.
VMM01	Modular Mounting Panel Bracket (Middle Unit), Requires Ends.
VME01	Modular Mounting Panel Bracket (End Unit), Reversible.
VPS	Switch Unit Panel Seal.
VCH01-K	Connector Kit - 8 x Female 1/4" QC Terminals 16-14AWG. **NEW**
VHP01	Hole Plug, Snap Mount, Blank Insert. **NEW**
VRT	Dual Purpose Removal Tool. Removes Actuator & Switch Body.

VHP01 Hole Plug

VPS Panel Seal

VMS01 Stand Alone Panel

VMM01 Middle Panel

VME01 End Panel

2x VME01 + 1x VMM01 Assembled Panels Example

Ex: Completed Panel 3x Panels & Switches

RELAY + SWITCH

Actuator: Black, hard optical grade polycarbonate, Nylon 66 overlay.
Switch Housing: Thermoplastic polyester alloy, flame retardant.
Switch Mechanism: Brass roller pin eliminates need for lubricants.
Terminals: 1/4" Quick Connect, tin plated. **Contacts:** Silver plated.
Endurance: 50,000 to 100,000 electrical cycles.
Ignition Protected: Sealed construction. UL1500 / ISO8846, 94/25/EC.
Backlighting LED: Blue controlled intensity for even illumination.
Ingress Protection Rating: Dual seal protection locks out elements.
Certified to IP66 / IP68 for front panel components.
Panel seal prevents water/dust ingress into the panel.
Operating Temp: -40°C to 85°C   **Approvals:**
Bulk Pack Size: 1, 10, 20, 100   **Retail Pack Size:** 1, 10

Scan this QR Code for more information

Actuator Removal

Switch Removal

Removal Tool VRT
101.4 x 22.9mm

QR Code: 9018

PROLEC

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Prolec's Australian made 4, 6 or 8 way panels, enable you to build your own customised circuit breaker / switch panel. Simply order the panel that suits your requirements, then order the switches and circuit breakers (sold separately). Switches are available with different electrical configurations and the switch actuators come in a wide variety of symbols & labelling. Our manual reset circuit breakers are available in ratings from 3A to 20A. Once the switches and breakers are fitted into the panel, connect your cables to them using standard 1/4" Q/C terminals.

PROPNL14V4WSB

PROPNL14V6WSB

PROPNL14V8WSB

6.8 | ←| 6.8 | Ø3.7
21
37
Ø9.95
H
W

← Centre Hole → | Dimensions in MM
H
W

4 Way Panel

6 & 8 Way Panel
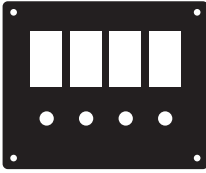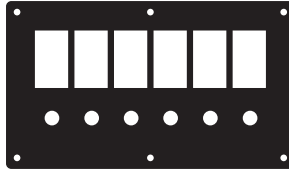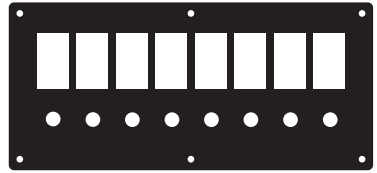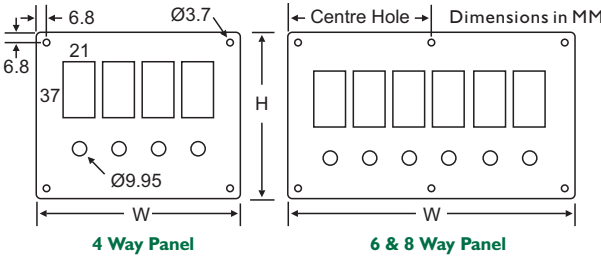
RELATED PRODUCTS:

Rocker Switch
Snap Mount
(Refer page 174)

Circuit Breaker
3/8"-27 Bushing
(Refer page 54)

Part Number	Description	Dimensions (W x H)	Centre Hole
PROPNL14V4WSB	4 Way Blank Panel	135 x 110mm	-
PROPNL14V6WSB	6 Way Blank Panel	190 x 110mm	95mm
PROPNL14V8WSB	8 Way Blank Panel	240 x 110mm	120mm
VHP01	Hole Plug Breaker	13 x 10.5mm	9.5mm
14HP38	Hole Plug Switch	48 x 23mm	37 x 21mm

Panel Material: Aluminum Black Powder Coated.
Panel Thickness: 2.3mm
Hardware: Includes black countersunk screws.
Note: Switches & circuit breakers are not included with the panel.

Hardware Black

Rocker Switch Hole Plug
37x21mm

Circuit Breaker Hole Plug
3/8" (9.5mm)

NEW

How to order to complete your custom DIY switch breaker panel:
Step One: Choose a 4, 6 or 8 way blank panel. (As above)
Step Two: Choose the rocker switch units / bases. (Page 174)
Step Three: Choose the rocker switch actuators / covers. (Page 174)
Step Four: Choose the panel mount circuit breaker for each position. (Page 54)
Step Five: If required choose protective boots for the circuit breakers. (Page 54)

Weatherproof Boots Clear or Black Options
3/8"-27 Thread, IP67
(Refer page 54)

Sample Loaded 8 Way Panel (Non Wired).

Carling Rocker Switches
Contura V, Series II
Laser Etched LED Lens

Mechanical Products
Series 14, 15 or 16
Circuit Breakers
Manual Reset TIII
(Weatherproof Boot Black)

Loaded Front View
8 Way Switch & Breaker Panel
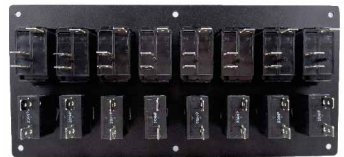
Loaded Rear View
8 Way Switch & Breaker Panel

BATTERY DISCONNECT SWITCH TERMINALS

EAT•N Bussmann

Battery Switch Terminals are primarily designed to prevent battery drain by providing a quick and safe way to completely disconnect the negative terminal of a battery. Simply unscrew the plastic knob one 1/4 turn and the battery is disconnected. To restore power, screw the knob down again.

A secondary application of this product is for use as an anti-theft device. By completely removing the knob, the vehicle cannot be started. Installing the included fuse holder (to bypass the switch) allows power flow to low current accessories ie. alarm, clock or door locks, but high current loads like a starter motor will not function until the knob is re-installed. The fuse can be removed to completely disconnect power.

BMS-1 (Kit - Suit Top Post)

BMS-2 (Kit - Suit Side Post)

Part Number	Description
BMS-1	Top Post Battery Switch Kit
BMS-2	Side Post Battery Switch Kit

Both Kits Contain:
1 x Battery switch.
1 x Inline mini fuse holder.
1 x 20A Mini fuse.
2 x Crimp terminals.
1 x Wing nut & bolt.

← **Negative Top Post**

← **Negative Side Post**

Ampere Rating: 100A continuous, 600A cranking.
Notes: Suitable for boats. Recommended by inboard and outboard motor manufacturers using DFI / FFI / EFI electronic fuel injection systems, but use without fuse and holder.

Scan this QR Code for more information

QR Code: 9019

BATTERY DISCONNECT CIRCUIT BREAKER SERIES 53

mp Mechanical Products

The Series 53 Battery Disconnect Breaker Switch incorporates a traditional battery disconnect switch (non-engine) & circuit breaker into a single device. This unique single rotary switch allows OEM cost savings by eliminating the added components, material and labour of a separate battery switch and circuit breaker / fuse. For end users and maintenance personnel, the Series 53 provides a quick way to disconnect traditional downstream circuit(s) to prevent unintentional battery drain or provide disconnected battery power during storage and/or maintenance.

IGNITION PROTECTED   **NEW**

PATENT PENDING   **IP67**

Features
• Current ratings 10A to 70A. Voltage 32VDC.
• Rotary switch knob, with Push to Reset breaker button.
• One-Piece terminal stud design never loosens over time.
• Designed for panel mounting (front or rear of panel).
• Ignition protected and weatherproof IEC 60529, (IP66 & IP67).
• Designed and manufactured in USA.
• Housing: Thermoplastic.
• Approvals: UL 1077, SAE J553, ABYC, CE

INNOVATION AWARDS

For complete product details on this product please see catalogue page 56.

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BATTERY DISCONNECT SWITCHES 12-24VDC

Littelfuse

Manual Battery Disconnect Switch with ROTATE to SWITCH ON & PUSH KNOB to SWITCH OFF in the event of an emergency. Switch status is indicated though a window on the top of the knob.

NEW

Part Number	Amperage	Intermittent Current	Circuitry	Ingress Rating	Mount	Terminals	Notes
08080200	150A	1200A at 5s	SPST	IP65	Through-Hole	M10 Ag Plated Copper	Push to Off

Mounting Diagram

38
6.5 25.5 6.5

Electrical Diagram

Ø 60.5
41.2
39.7
22   Dimensions in MM
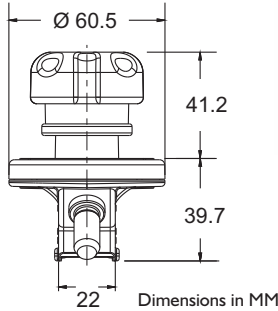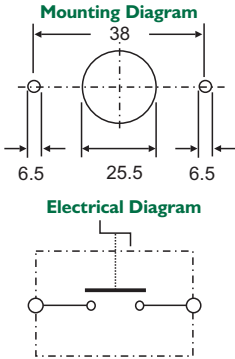
Top View of Knob

BATTERY DISCONNECT SWITCH 12-24VDC

Littelfuse

The Littelfuse Battery Disconnect Switch features a TURN to SWITCH ON and PUSH to OFF operation. Easy to operate and shut off vehicle power in emergency situations. Switch features an identical mounting pattern to metal body removable key switches, so the same application has multiple options with minimal design changes.

NEW
IP65

Features
• 250A continuous current rating.
• Waterproof and dust proof to IP65.
• Push to off emergency shutdown feature.
• Highly visible bright red handle.

Part Number	Amperage	Intermittent Current	Circuitry	Ingress Rating	Mounting	Terminals	Contacts
08098400	250A	2500A at 3s	SPST	IP65	Flange Mount	M10 Brass	Silver Plated Brass
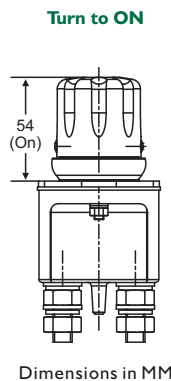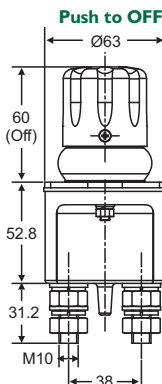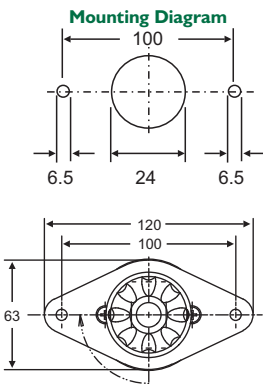
Mounting Diagram

100
6.5 24 6.5
120
100
63

Push to OFF

Ø63
60 (Off)
52.8
31.2
M10
38

Turn to ON

54 (On)

Dimensions in MM

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BATTERY DISCONNECT SWITCHES 12-24VDC

Littelfuse®

These battery disconnect switches all feature a removable key handle and compact plastic body. The 08098700 is the standard manual battery disconnect switch rated to 100A with M8 terminals. The 08098780 is rated to 150A max. continuous current with M10 stud terminals designed for heavier current loads which makes it one of the most popular products for 12V or 24V applications. The 08099080 is also rated to 150A with M10 terminals, but features both a seal on the handle and a tethered cover to seal the key hole when the handle is removed. It's weatherproof to IP43.

Part Number	Amperage	Intermittent Current	Circuitry	Ingress Rating	Mount	Copper Terminals	Terminal Hardware	Notes
08098700	100A	500A at 5s	SPST	IP4X	Flange	M8	Steel-Zinc	-
08098780	150A	1000A at 5s	SPST	IP4X	Flange	M10	Brass	-
08099080	150A	1000A at 5s	SPST	IP43	Flange	M10	Steel-Zinc	Key Seal & Cap

Electrical Diagram

Mounting Diagram

38

6.5

24

Dimensions in MM

M8 or M10

34

Ø54
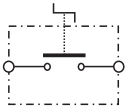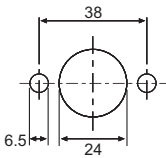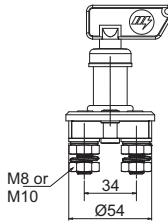
08098700
08098780

08099080

BATTERY DISCONNECT SWITCH 12-24VDC

Littelfuse®

Manual battery switch with removable or fixed handle and available with weather protective boots.
08098800 - Switch with removable handle. Interchangeable with Bosch. 0341002003 switches.
08098881 - Switch with removable handle and chain. Includes red, yellow rubber boots & black cover for weather protection and to help identify different applications.
08098882 - Switch with fixed handle and integrated lock-out tag-out. Red, yellow and black rubber boots for weather protection and to help identify different applications. This new design that does not require an accessory for lock-out tag-out functionality.

Part Number	Amperage	Intermittent Current	Circuitry	Ingress Rating	Mount	Copper Terminals	Terminal Hardware	Handle
08098800	250A	2500A at 3s	SPST	IP65	Flange	M10	Zinc-Plated	Removable
08098881	250A	2500A at 3s	SPST	IP65/IP69K	Flange	M10	Zinc-Plated	Removable
08098882	250A	2500A at 3s	SPST	IP65/IP69K	Flange	M10	Zinc-Plated	Fixed

Electrical Diagram

Mounting Diagram

100

6.5   24   6.5
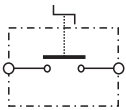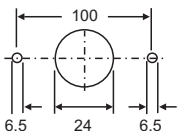
08098800

08098881

08098882

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RELAY + SWITCH

Littelfuse®

IGNITION PROTECTED | NEW
36V | IP68

The 75920 Master Battery Disconnect switch is designed to protect service personnel and your vehicle systems. The switch protects vehicles from both battery drain and theft as well as allowing service personnel to lock-out tag-out. It also serves as an effective emergency power cutoff.

Features
• High amperage capacity: 400A at 12V DC.
• Can be used in high side or low side applications.
• Waterproof and dustproof to IP68.
• Composite engineered polymer housing will not rust or corrode.
• Tested per SAE 1455 for salt, calcium chloride and magnesium chloride.
• Large red knob is easy to operate with gloves.
• 90° switch travel makes it easy to identify the switch position.
• Large divider on base prevents accidental shorting of high energy cables.
• Fits standard Master Disconnect mounting pattern.

Part Number	Voltage	Circuitry	Ingress Rating	Switch Pos Symbol	Feature	Actuator Colour
75920	6V-36V	SPST	IP68	"On"-"Off"	Lockout	Red
75920-01	6V-36V	SPST	IP68	"On"-"Off"	Lockout	Yellow

Mounting: Panel Mount
Continuous Current: 12V:400A
                                 24V:300A
                                 36V:200A
Intermittent Current: 12V:1000A, 90sec on, 5 min off.
                          12V:1500A, 60sec on, 5 min off.
                          12V:2000A, 30sec on, 5 min off.
                          12V:3000A, 15sec on, 5 min off.
Operating Temperature: -40 to 85 degC
Terminal Studs : Copper 3/8"-24.
Hardware: Stainless steel nuts (included)
Corrosion Test: 96 hours - salt spray test to ASTM standard.
Vibration and Shock Test: SAE J1455
Ingress Protection Rating: IP68.
Approvals: SAE CE RoHS

Mounting Diagram
#1 Without Panel Punch
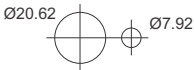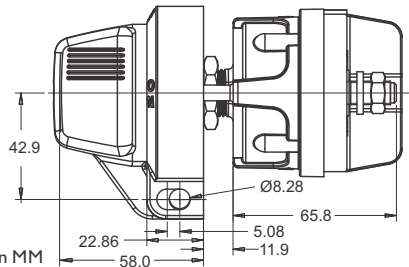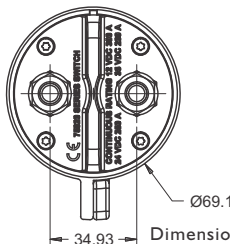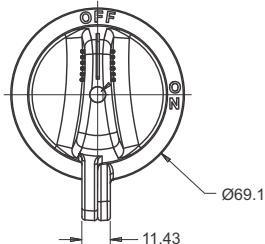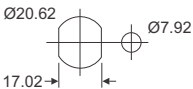
Ø20.62   Ø7.92

#2 With Panel Punch

Ø20.62   Ø7.92
17.02

Ø69.1
11.43

Ø69.1
34.93   Dimensions in MM

42.9
Ø8.28
65.8
22.86
5.08
11.9
58.0

RELAY + SWITCH

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MASTER DISCONNECT SWITCH 48VDC

Littelfuse

NEW　**IGNITION PROTECTED**

48V　**IP67**

IP69K

The Littelfuse Master Disconnect Switch isolates the batteries and eliminates battery drain when vehicle is stored overnight or for longer periods. Electrically cuts off battery power for safety or when the vehicle is being serviced. Units have a depth of only 75mm (knob front to end of studs) – can be installed in locations where behind-panel space is limited.

Features
• 300A continuous current rating.
• Ignition protected to SAE J1171 and ISO 8846 for installation in a battery box or on vehicles carrying hazardous loads.
• Plastic construction will not corrode.
• Stands up to road splash and salt spray.
• Ingress protected to IP67/ IP69K.
• Switch can be mounted anywhere on the vehicle.
• Stainless steel hardware (included) and tin-plated copper contacts minimize resistance in harsh environments.

Part Number	Voltage	Amperage	Cranking Rating 12VDC, 30 Sec	Circuitry	Ingress Rating
880062	48V	300A	1250A (1 x 4/0 cable)	SPST	IP67 / IP69K

Front Face

Mounting: Panel Mount. Front or Rear Options.
Front Panel Mount: 67mm (2-5/8") Hole. See (A)
Rear Panel Mount: 60mm (2-3/8") Hole. See (B)
Terminal Stud Size: 3/8"-16 (accepts M10 terminals).
Terminal Studs: Tin-plated copper.
Hardware: Stainless steel nuts (included).
Ingress Protection Rating: IP67 / IP69K.
Ignition Protection: Meets ISO 8846 & SAE J1171
Inrush Rating (2 sec): 3,500A.
Cranking rating (2 sec): 1,250A (1 x 4/0 cable)

Rear Side

(B) Rear Panel Mount
(A) Front Panel Mount

C'Bore Ø10.2
4.0 deep x 4
Ø5.23
M5 (#10)
Screw x 4
71.3
55.3
55.3
71.3
33　42
22.8

RELAY + SWITCH

30.4
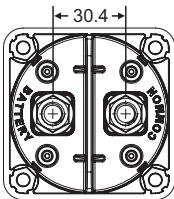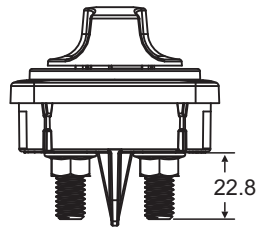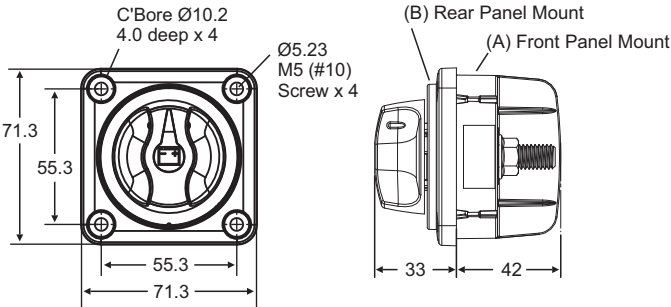
Dimensions in MM

Wiring Configuration

− + Battery

Battery　Common

Starter or other DC loads

Master Battery Disconnect (shown in ON state)

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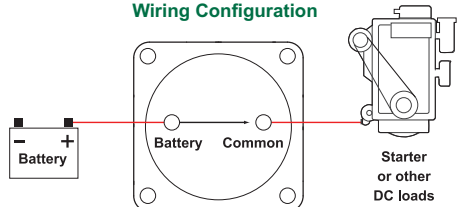
MASTER DISCONNECT SWITCH 36-48VDC

NEW IGNITION PROTECTED

48V **IP67**

32V **IP69K**

The Littelfuse Master Disconnect Switch isolates the batteries and eliminates battery drain when vehicle is stored overnight or for longer periods. Electrically cuts off battery power for safety or when the vehicle is being serviced. Units have a depth of only 75mm (knob front to end of studs), can be installed in locations where behind-panel space is limited.

Features
• 300A continuous current rating.
• Lockout feature. Padlock capability.
• Switch can be mounted anywhere on the vehicle.
• Plastic construction will not corrode.
• Stands up to road splash and salt spray.
• Ingress protected to IP67/ IP69K.
• Ignition protected to SAE J1171 and ISO 8846 for installation in a battery box or on vehicles carrying hazardous loads.
• Stainless steel hardware (included) and tin-plated copper contacts minimize resistance in harsh environments.

Part Number	Voltage	Amperage	Cranking Rating 12VDC, 30 Sec	Circuitry	Ingress Rating	Feature
880064	48V	300A	1250A (1 x 4/0 cable)	SPST	IP67 / IP69K	Lockout
880154	32V	600A	2500A (1 x 4/0 cable)	SPST	IP67 / IP69K	High Cranking & Lockout

Mounting: Flange Mount.
Terminal Stud Size: 3/8"-16 (accepts M10 terminals).
**Terminal Studs:** Tin-plated copper.
Hardware: Stainless steel nuts (included).
Ingress Protection Rating: IP67 / IP69K.
Ignition Protection: Meets ISO 8846 & SAE J1171
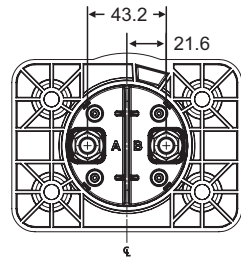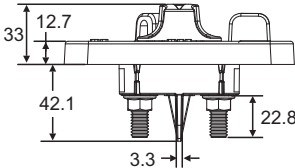
Wiring Configuration

Master Battery Disconnect
(shown in ON state)

Battery   Common

− Battery +

Starter or other DC loads

43.2
21.6

12.7
33
42.1
22.8
3.3

A B

Ø8.27 Mounting Hole x 4
82.5
97.8
94.3
ON
50.8
OFF
126.1
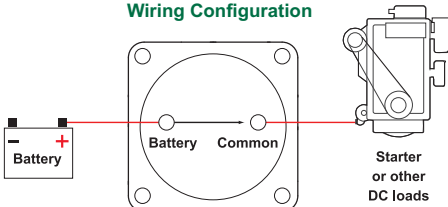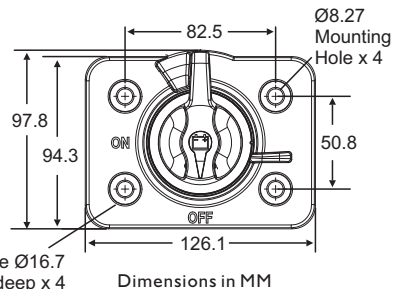
C'Bore Ø16.7
4.57 deep x 4

Dimensions in MM

RELAY + SWITCH

181

MASTER DISCONNECT SWITCH 12-48VDC

The Littelfuse Master Disconnect 2 Pole Switch cuts all battery power from vehicle electrical systems with applications needing switching of two circuits. Can be used to switch two vehicle voltage circuits simultaneously (24V & 12V). Disconnect a battery or multiple batteries, in either the positive or the negative line.

Features
• 500A continuous current rating per circuit.
• Ingress protection to IP67 and IP69K means that the switch can be mounted in exposed locations on the vehicle.
• Drop-in replacement for competitive Master Disconnect Switches, with higher vibration and shock capabilities.
• Direct lockout/tagout capability in On or Off position, with padlock or hasp.

Part Number	Amperage	Switch Circuit	Ingress Rating	Mount	Actuator Colour	
880175	500A	DPST	IP67 / IP69K	Surface	Black	■
880175-0001	500A	DPST	IP67 / IP69K	Surface	Red	■
880175-0002	500A	DPST	IP67 / IP69K	Surface	Yellow	■

880175

Voltage: 48VDC.
Max Continuous Current Ratings:
500A per circuit with 2 x 4/0 input and 2 x 4/0 output cables.
350A per circuit with 1 x 4/0 input and 1 x 4/0 output cables.
Terminal Stud Size: M12 x 25mm.
Terminal Studs: Tin-plated copper
Hardware: Stainless steel nuts (included)
Ingress Protection Rating: IP67 / IP69K.
Inrush Rating (1 sec): 3,000A per circuit with 2 x 4/0 + 1 x 2 AWG.
Cranking rating (30 sec):
2,250A per circuit with 2 x 4/0 input and 2 x 4/0 output cables.
1,750A per circuit with 1 x 4/0 input and 1 x 4/0 output cables.
Temperature Rating: -50 °C to +85 °C, DC-Rated to 105 °C.
Recommended Terminal Torque: 20 Nm (30Nm max).
Recommended Mounting Torque: 15Nm (20Nm max).
Notes: Ambient temperature can reach 105 °C with appropriate de-rating. Stud terminals must never exceed 125 °C under any condition.

880175-0001

880175-0002

Internal Switch Circuit Diagram

3 ——∘   ∘—— 4
1 ——∘   ∘—— 2

Scan this QR Code for more information

QR Code: 9039

Dimensions in MM

120
100
34
37

2 X Ø8.50 (M8 OR 5/16 MOUNTING)

NUT M12X1.75 SS SERRATED HEX FLANGE

FOR MOUNTING IN Ø80 HOLE

103
Ø85
37   25

2 X LOCKOUT FEATURE ACCEPTS HASP OR PADLOCK

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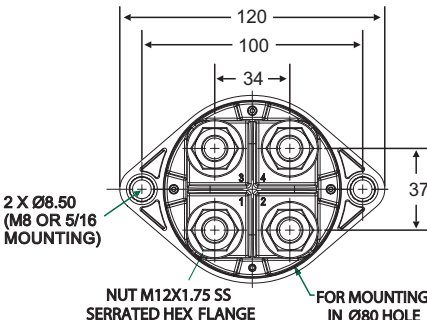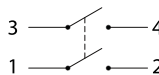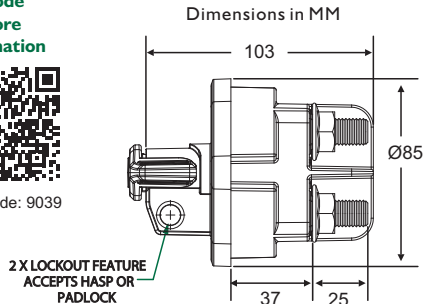
BATTERY DISCONNECT SWITCH 24VDC

Littelfuse®

250A-500A bipolar disconnect switch with fixed or removable handle. Modern design, made of high performance materials in terms of resistance to high temperatures, chemical and atmospheric agents. This battery master switch represents an evolution of our expertise and is also supplied in up to 500A DC version.

Features
• Product series features modern advancements in the design evolution of manual battery disconnects.
• Smartkey allows operator to make the handle removable or fixed, locking it in either the OFF or ON position.
• Protective rubber cap with an auto-protection feature ensures dirt protection when the handle is inserted.
• Up to 500A continuous current.
• IP69K rating for high pressure wash.

Applications

| Heavy Trucks | Off-Road | Construction | Material Handling |
| Mining Vehicles | Agriculture | Marine | Emergency Vehicles |

Part Number	Amperage	Intermittent Current	Circuitry	Ingress Rating	Mounting	Silver Plated Copper Terminals
08084300	250A	1000A at 10s	DPST	IP67/IP69K	Flange	M10
08084400	500A	1500A at 10s	DPST	IP67/IP69K	Flange	M12

Voltage: 24VDC.
Terminal Stud Size: noted above.
Terminal Studs: Tin-plated copper
Hardware: Stainless steel nuts (included)
Ingress Protection Rating: IP67 / IP69K.
Temperature Rating: -40 °C to +85 °C
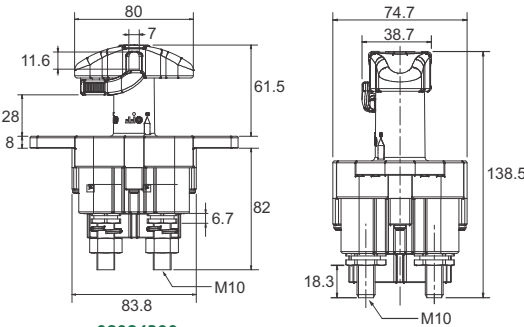
08084300
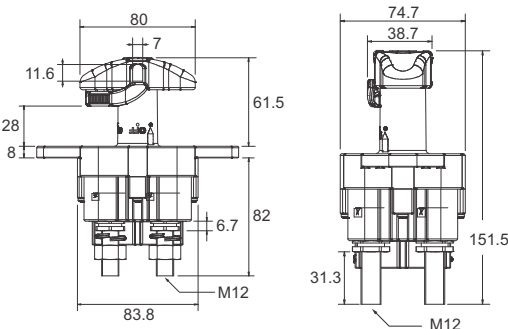
08084400   Dimensions in MM
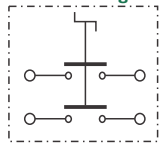
Electrical Diagram

Mounting Diagram

100min - 120max

8.5

32
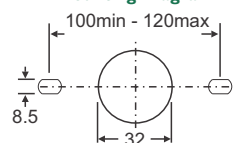
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INSULATED TERMINAL CRIMPING TOOL

MTA

Part Number
9602460

Economy Crimper: Suits insulated terminals.
Wire Size Range: 0.25mm² to 6mm²
Notes: Economy Type.
Pack Size: 1

Crimping Range
- 🔴 0.25-1.5mm² AWG20-16
- 🔵 2.5mm² AWG14
- 🟡 4-6mm² AWG12-10

Part Number
9602500

Ratchet Crimper: Suits insulated terminals.
Wire Size Range: 0.25mm² to 6mm²
Pack Size: 1

Crimping Range
- 🔴 0.25-1.5mm² AWG20-16
- 🔵 2.5mm² AWG14
- 🟡 4-6mm² AWG12-10

TERMINAL CRIMPING TOOL

MTA

Part Number
9602450

Economy Crimper: Suits terminals.
Wire Size Range: 1.5mm² to 6mm²
Pack Size: 1

Part Number
9602455

Ratchet Crimper: Suits terminals.
Wire Size Range: 0.5mm² to 6mm²
Pack Size: 1

TUBULAR TERMINAL CRIMPING TOOL

PROLEC

Part Number
CRIMPER-04

Crimps: Tubular terminals.
Wire Size Range: 10mm² to 95mm²
Wire Size Range: #8AWG to 3/0AWG
Notes: Tool can also be held in vice jaws.
Pack Size: 1

RELATED PRODUCTS:

Tubular Terminals
(see p.188)

Turn screw to
change gauge setting.
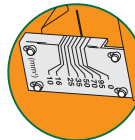
Tubular terminal

Gauge Setting

TERMINAL CRIMPING TOOL

PROLEC

This tool is designed to crimp a terminal and a seal onto a stripped end of a electrical cable.

Part Number
CT-P78

Crimps: Aptiv Delphi Metri-Pack 150 & 280 &
Tyco AMP MCP 2.8 terminals.
Terminal Gauge Range: #22 to12AWG (0.35mm² to 3mm²)
Features: Parallel jaw design eliminates terminal rocking.
Notes: Suits terminals used with PDM's products including;
Littelfuse BPDMA104, PDM3100, PDM2100,
Bussmann CFH, 15300, 15400, XTCK4
Pack Size: 1

Crimping Tool Head Legend
A : Crimp Metri-Pack 150 seals
B : Crimp Metri-Pack 280 & AMP MCP 2.8 seals
1 : Crimp #22 (0.35mm²) terminals
2 : Crimp #20 to #18 (0.5 to 0.8mm²) terminals
3 : Crimp #16 to #14 (1.0 to 2.0mm²)terminals
4 : Crimp #12 (3.0mm²) terminals

**Scan this
QR Code
for more
information**

QR Code: 8001

Need help using this crimp tool?
Scan the QR code to view instructions.

RATCHET TERMINAL CRIMPING TOOL KIT

PROLEC

These tools are designed to crimp a terminal and cable seal onto a stripped end of a electrical cable.

NEW

Features:
• Quickly change between different jaw sets.
• Ratchet mechanism with automatic quick release.
• Parallel jaw design eliminates terminal rocking.
• Crimps terminal and seal in one press.

Part Number
CT-JA18B

Kit Includes
Quick change ratchet crimper tool (8.7") 220mm
H6 Jaw set to suit: (#22 / 20-18AWG) 0.35 / 0.5-0.8mm²
H7 Jaw set to suit: (#16-14 / 12AWG) 1.0-2.0 / 3.0mm²

CT-JA18B pictured
with jaw set inserted

Crimps: Aptiv Delphi Metri-Pack 280 & Weather Pack terminals.
Terminal Gauge Range: #22 to12AWG (0.35mm² to 3mm²)
Features: Parallel jaw design eliminates terminal rocking.
Notes: Suits terminals used with PDM's products including;
Littelfuse BPDMA104, PDM3100, PDM2100,
Bussmann CFH, 15300 & 15400, XTCK4
Pack Size: 1

Crimping Tool Set Legend
H6 Position 1 : Crimp #22 (0.35mm²) terminals
H6 Position 2 : Crimp #20 to #18 (0.5 to 0.8mm²) terminals
H7 Position 1 : Crimp #16 to #14 (1.0 to 2.0mm²)terminals
H7 Position 2 : Crimp #12 (3.0mm²) terminals
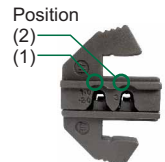
Position
(2)
(1)

Position
(2)
(1)

H6 Jaw set

H7 Jaw set

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TERMINAL CRIMPING TOOL OEM STYLE

PROLEC

Part Number
06285847
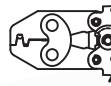
Crimps: Aptiv Delphi Pack-Con Series 3 & 5 Terminals.
Two cavity crimp tool. Spring loaded.
Terminal Gauge Range: #20 - #10AWG (0.5mm² to 5mm²)
Notes: Suits terminals used with Bussmann RTA Autofuse
panels 157 series fuse blocks (p 92). Crimps core wings only.
Pack Size: 1

TERMINAL REMOVAL TOOLS DELPHI APTIV

PROLEC

These tools are designed to remove terminals fitted in PDM's, holders or connectors.

Part Number
12094429

Extracts: Delphi GT 150; GT 280; 150 Metri-Pack; 280 Metri-Pack; 280 Tangless & 280 Bus Bar;
630 Pull-To-Seat; Lamp Socket Bases, B-1 & W-3; 800 Metri-Pack Female.
Notes: As used in Bussmann15303, 15305, 15401, CFH-A series Power Distribution Modules.
         As used in GEP FRH-A24, PDM-R3AC1, PDM-S3AC1, PDM-U3AC1 Power Distribution Modules.
         As used in Littelfuse BPDMA104, PDM31001 and PDM71001 Power Distribution Modules.
Pack Size: 1

Part Number
12094430

12094430

Extracts: Delphi Pack-Con series 3 & 5 terminals.
Notes: As used in Bussmann RTA 157 series rear terminal fuse blocks (p 92).
Pack Size: 1

TERMINATED & SEALED CABLES

PROLEC

These pre-terminated and sealed cables and jumpers have been designed for quick installation into Power
Distribution Modules (PDM's) with cavities that mate with Delphi Aptiv 280 Metri-Pack terminals and seals. They
are available in two models: Tangless or Tanged. The dual terminated and sealed jumpers are a quick way to link a
mini fuse cavity to a ISO 280 relay cavity. Whilst the single terminated and sealed cables can be used for power or
signal applications. The un-terminated end can be joined to other cables simply with a butt splice connector.

Part Number	Product	Termination Type	Cable Specifications	Suit Various PDM's
CAB2.0X85TS1J	Jumper	Dual End, Tangless	Red 1.84mm² x 90mm	15303-1 to 15303-6,
CAB2.0X300TS1	Cable Lead	Single End, Tangless	Red 1.84mm² x 300mm	15305-1, 15305-2, 15305-3,
CAB2.0X300TS2	Cable Lead	Single End, Tangless	Blue 1.84mm² x 300mm	15305-4, 15305-5, 15305-6,
CAB2.0X85TS1TJ	Jumper	Dual End, Tanged	Red 1.84mm² x 90mm	BPDMA104, CFH-Axx,
CAB2.0X300TS1T	Cable Lead	Single End, Tanged	Red 1.84mm² x 300mm	FRH-A24, PDM-3AC1,
CAB2.0X300TS2T	Cable Lead	Single End, Tangled	Blue 1.84mm² x 300mm	PDM-S3AC1, PDM-U3AC1,
				PDM-31001, PDM71003
				15401, 15402, 15403, 15404

Terminal Type: Delphi Aptiv Metri-Pack 280
Notes: As used in Bussmann RTMR rear terminal fuse / relay blocks.
Pack Size: 1, 10, 50, 100

CAB2.0X85TS1x

Tangless   CAB2.0X85TS1x
           CAB2.0X300TS2x
Tanged   CAB2.0X300TS1x

Butt Splice
Connectors (p.188)

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TERMINAL, SEAL AND CAVITY PLUG KITS

PROLEC

NEW

Features:
• Suits various models of hard wired power distribution modules.
• Fitted with genuine original equipment components.
• Australian designed & made compartment box. Kitted locally.

280 Tangless Female Sealed - 120pcs

Suits: Bussmann RTMR's 15305 & 15305 Series

Part Number
TERMKIT001

Kit Contains:
Terminals: 10pcs x 0.8 - 1.0MM
              30pcs x 1.0 - 2.0MM
              10pcs x 2.0 - 3.0MM
Cable Seals: 10pcs x 2.03 - 2.85MM Green
              30pcs x 2.81 - 3.49MM Grey
              10pcs x 3.45 - 4.3MM Blue
Cavity Plugs: 20pcs x 6.7MM Green

280 Tanged Female Sealed - 170pcs

Suits: GEP Power PDM's 280 Style
           Littelfuse HWB18 & HWB60

Part Number
TERMKIT002

Kit Contains:
Terminals: 10pcs x 0.8 - 1.0mm
              40pcs x 2.0 - 3.0mm
              20pcs x 5.0mm
Cable Seals: 10pcs x 2.03 - 2.85mm Green
              40pcs x 2.81 - 3.49mm Grey
              20pcs x 3.45 - 4.3mm Blue
Cavity Plugs: 30pcs x 6.7mm Green

280 Tanged Female Sealed - 310pcs

Suits: GEP Power PDM's 280 Style
           Bussmann RFMR's 154 Series

Part Number
TERMKIT003

Kit Contains:
Terminals: 20pcs x 0.8 - 1.0mm
              70pcs x 2.0 - 3.0mm
              40pcs x 5.0mm
Cable Seals: 20pcs x 2.03 - 2.85mm Green
              70pcs x 2.81 - 3.49mm Grey
              40pcs x 3.45 - 4.3mm Blue
Cavity Plugs: 50pcs x 6.7mm Green

MCP 2.8 Tanged Female Sealed - 170pcs

Suits: Bussmann RTMR 15310 Series

Part Number
TERMKIT004

Kit Contains:
Terminals: 30pcs x 0.5 - 1.0mm
              40pcs x 1.5 - 2.5mm
Cable Seals: 30pcs x 1.5 - 2.1mm Blue
              40pcs x 2.2 - 3.0mm White
Cavity Plugs: 30pcs x 6.7mm Natural

INSULATED HEAT SHRINK BUTT SPLICE CONNECTORS

PROLEC

Perma-Seal splices provide a rugged, environmentally sealed connection for wire sizes that will insulate, seal and protect joints from physical abuse and abrasion, water, salt and other corrosive compounds.

Part Number	Connector	Wire Gauge	Colour	A (mm)	B (mm)	C (mm)	
19164-0013	Butt Splice	22-18AWG	Red	15	39.4	4.7	🟥
19164-0044	Butt Splice	16-14AWG	Blue	15	39.4	4.95	🟦
19164-0056	Butt Splice	12-10AWG	Yellow	15	45.7	6.99	🟨

Voltage: Maximum 600V
Barrel Type: Closed
Material Plating - Mating & Termination: Tin
Material Metal: Copper   **Insulation:** NiAc™
Temperature Range Operating: -55°C to +125°C
Wire Insulation Diameter: 5.97mm max.
Pack Size: 10, 50, 100, 500

1/. Insert both cables & crimp

2/. Apply heat to seal
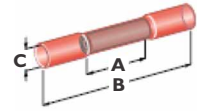
MALE & FEMALE PVC INSULATED DISCONNECTS

MTA

NEW

Part Number	Nylon Insulated	Wire Section	L1 (mm)	L2 (mm)	Dia	Colour	
1852000	1/4" Male Push On	0.25-1.00mm²	12	21.0	1	Red	🟥
1856000	1/4" Male Push On	1.00-2.50mm²	12	21.0	2	Blue	🟦
1862000	1/4" Male Push On	2.50-6.00mm²	13	22.5	3	Yellow	🟨
1851500	1/4" Female Push On	0.25-1.00mm²	-	23.5	4	Red	🟥
1855500	1/4" Female Push On	1.00-2.50mm²	-	23.5	5	Blue	🟦
1860500	1/4" Female Push On	2.50-6.00mm²	-	24.0	6	Yellow	🟨

RELATED PRODUCTS:
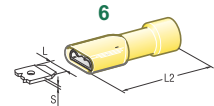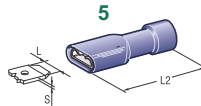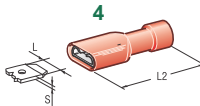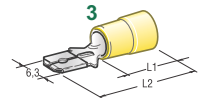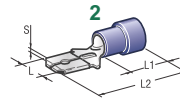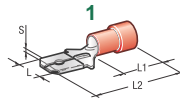
Crimping Tools
(see p.184)

1   **2**   **3**

4   **5**   **6**

TUBULAR TERMINAL CRIMPING TOOL

MTA

NEW

Part Number	Screw Hole	Wire Section	Dia.
05000BK	M6	16mm²	1
05100BK	M8	16mm²	1
05010BK	M8	25mm²	2
05021BK	M8	35mm²	2
05110BK	M10	25mm²	3
05020BK	M10	35mm²	3
05030BK	M11	50mm²	4
05040BK	M13	75mm²	5

RELATED PRODUCT:

Crimping Tool
(see p.184)

1   **2**

3   **4**   **5**

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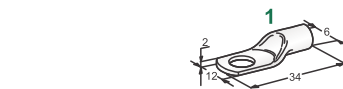
Information, Notes & Part Number Index

Industry know-how.

AMBIENT TEMPERATURE

INFORMATION

189

PROLEC

Fuses are current sensitive devices and selected to be the weakest link in the circuit. Circuit protection is provided when the fuse link melts and safely interrupts the over current demand. The key criteria to judge the performance of a fuse is the time versus current characteristic curve. This curve can be used to match the fuse with the anticipated over current load expected in the application.

Types of Over Current

Short Circuit: A short circuit is a current condition that greatly exceeds the rating of the device. It is caused when a malfunction or accident creates a break in the normal path allowing electricity to flow directly to ground. This shorter current path bypasses the resistance offered by the circuit components connected in the normal current path. In this situation, there is virtually no resistance to impede the current and the current will build to a level where the heat generated can cause insulation or equipment breakdown.

Overload: An overload is an over current that is within the normal current path. Overloads occur when the current exceeds the value for which the equipment or associated wiring is rated. This typically occurs when too many devices are connected to the circuit or when a device connected to the circuit malfunctions. Sustained overloads may slowly cause overheating of the wiring and the components. The circuit protection device must open before these types of overloads cause damage.

Selecting Over Current Protection

During normal conditions, an over current protection device must carry the current without nuisance openings. However, when an overload or short circuit occurs, the device must interrupt the over current and withstand the voltage across the device after arcing. To properly select an over current device, the following items must be carefully considered:

Voltage Rating: Represents the maximum system voltage present in the circuit in which the over current device is installed. The system voltage should not exceed this value for proper operation of the device during an over current event.

Current Rating: This is the ampere value marked on the circuit protection device. It is established by the manufacturer as a value of current which the device can carry, based on a controlled set of test conditions. The current rating of a fuse is typically de-rated by 25% to ensure continuous operation in an ambient temperature of 25°C and avoid nuisance blowing. Example: A fuse with a current rating of 10A is usually recommended for operation at no more than 7.5A (10A x 0.75) based on an ambient temperature of 25°C. If the ambient temperature is higher, a re-rating must be calculated as per the section below.

In-rush Characteristics: During the operation of protected equipment, system current can significantly vary. This is particularly evident when motor or other inductive loads in the circuit cause large current surges during start-up or shutdown. A time-delay fuse should be used in applications where in-rush currents are possible.

Re-rating For Ambient Temperature

The current carrying capacity tests of fuses are performed at 25°C and will be affected by changes in ambient temperature. At higher ambient temperatures, a fuse will respond faster to a given overload. Conversely, at lower ambient temperatures, a fuse will respond slower to a given overload. Selecting the correct fuse for higher or lower ambient temperatures requires the use of an *ambient temperature re-rating chart*. These charts vary by product and manufacturer ie. a slow acting fuse will have a different re-rating curve to a fast acting fuse.

Example: We need to select the correct fast-acting fuse for a circuit with a normal operating current of 15A and an ambient temperature of 105°C.
The formula below uses a 105°C re-rating factor of 0.88 (read from the chart on the right) and the standard 25°C de-rating factor of 0.75

$$\frac{\text{Normal Operating Current}}{\text{Re-rating x De-rating}} = \frac{15A}{0.88 \times 0.75}$$

The fuse rating we require is: 22.73A at 105°C.

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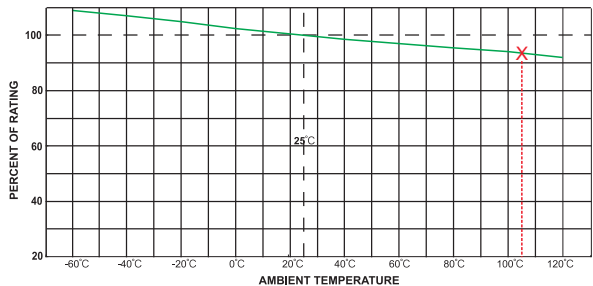
Thermal Circuit Breakers

The basic components of a thermal circuit breaker are the composite alloy reed, two precious metal contacts and the interconnecting terminals. When an over current occurs, heat is generated as the current flows through the reed causing the reed to deflect and snap open. This separates the contacts and safely interrupts the current flow. Two important parameters used to judge the performance of thermal circuit breakers are the time versus current characteristic curve, similar to the fuse, along with the speed at which the contacts snap open. The relative speed at which the contacts separate is a measure of the cycle life under electrical loading demands.

Types Of Thermal Circuit Breakers

In contrast to fuse links, thermal Circuit Breakers are resettable. There are SAE definitions for the different types of thermal circuit breakers. Four different reset operational methods are generally available. Type I, Type II, Type III and Type III* .

Type I (Automatic Reset): Cycles or continuously resets until the fault is corrected. Type I circuit breakers are typically used to protect circuits which occasionally experience momentary overloads such as wiper motor and headlamp circuits where a self resetting device is preferred. They are not designed for long term cycling. It is recommended they are installed downstream of a main fuse, manual reset breaker or momentary switch.

Type II (Modified Reset): Non-cycling. Once tripped, the open circuit condition is maintained, except for a low milliamp draw through the resistor. The circuit breaker resets when power is turned off. Requires a minimum voltage/current to maintain open circuit. Type II circuit breakers are typically used in applications where fuse replacement is objectionable, such as power window, seat and sunroof circuits.

Type III (Manual Reset): Non-cycling. Manually resettable circuit breakers remain in the open position until a button, lever or other external reset device is manually depressed to re-engage the circuit. Type III circuit breakers are typically used in applications where a manual reset is desired for safe diagnosis of a circuit fault.

Type III* (Manual Reset - Push to Trip): Same as a Type III manual reset breaker however the user can press a button on the breaker to open the circuit manually.

Type III* (Manual Reset - Switchable): Same as a Type III manual reset breaker however the user can open the circuit by moving an external switch lever to the OFF position. This same lever can be used to re-engage the circuit by moving the lever back to the ON position, just like a switch.

Type I	Type II	Type III	Type III P.T.T	Type III Switchable
Automatic Reset (The breaker will reset automatically)	Modified Reset (Switch Power Off / On To Reset)	Manual Reset (Push Button To Reset)	Manual Reset (Push Button To Trip Move Lever To Reset)	Manual Reset (Moveable Lever)

INFORMATION

WIRE GAUGE SELECTION

PROLEC

Match Wire Gauge To Fuse

In order to protect wiring under all overload and short circuit conditions, it is necessary to standardize the fuse and wire selection process. Fuses have controlled opening characteristics and each wire gauge has its respective current carrying capacity. Fuses need to be selected to always protect the wire insulation from damage. In the selection of wire gauge at various ambient temperatures, it is important to consider the worst case or highest ambient temperature for the application. Wires derate to a much higher degree than fuses, because wire insulation temperature capability is affected much more severely.

Littelfuse provide the following table advising the recommended maximum continuous current rating for the size of wire based on the type of insulation (either GXL or GPT) and the ambient temperature (25°C, 80°C or 105°C).

Wire Size				Maximum Continuous Current (Amperes)				
			mm	At 25°C		At 80°C		At 105°C
AWG	B&S	mm²	(dia.)	GXL	GPT	GXL	GPT	GXL
-	-	0.3	0.62	15	10	11	4	9
20	-	0.5	0.81	21	15	16	6	13
-	-	0.75	0.98	27	21	20	7	17
18	-	0.8	1.02	31	22	23	7	19
16	-	1.0	1.29	33	23	25	9	20
15	-	1.5	1.45	43	30	33	12	27
14	-	2.0	1.63	50	36	37	14	32
13	-	2.5	1.83	60	42	45	15	38
12	-	3	2.05	68	47	51	18	42
-	-	4	2.26	80	56	61	22	50
10	-	5	2.59	90	65	68	23	58
-	-	6	2.76	103	73	78	28	64
8	8B&S	8	3.26	125	87	96	30	79
-	-	10	3.57	146	103	111	40	90
6	6B&S	13	4.12	170	120	129	47	105
4	-	19	5.19	221	156	166	61	137

Wire Size Definitions:

American Wire Gauge or AWG for short (used within the US) - is the standard method denoting wire diameter. Measuring the diameter of the conductor (the bare wire) with the insulation removed. AWG is sometimes also known as Brown and Sharpe (B&S) Wire Gauge. Whilst countries outside of the US use a metric measurement ie mm² = Millimetres Squared.

Wire Insulation Types SAE J-1128:

GXL : General purpose cross link polyethylene insulation wire with a maximum insulation temperature of 155°C. Type GXL automotive primary wire is the most common type. It works with most standard automotive wire connectors and may be applied in engine compartments where higher heat resistance is required according to SAE J-1128. GXL automotive wire is thin-walled, giving it a small diameter for hard-to-fit areas in trucks and trailers. Its recommended temperature range is -51°C to 125°C.

GPT : General purpose thermoplastic insulation wire with a maximum insulation temperature of 90°C. Type GPT automotive wire is intended for use whenever SAE J-1128 specifies general circuit wiring. GPT automotive primary wire features extruded insulation and has a recommended temperature range of -40°C to 80°C.

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Maximum Allowable Amperage Of Conductors Under 50 Volts (Per SAE J-378)

Wire Size			Temperature Rating of Conductor Insulation					
			80°C		105°C		125°C	
Wire Gauge AWG	Wire Gauge mm²	Wire Gauge mm (dia.)	Outside Engine Spaces	Inside Engine Spaces	Outside Engine Spaces	Inside Engine Spaces	Outside Engine Spaces	Inside Engine Spaces
18	0.8	1.02	15A	11.7A	20A	17.0A	20A	22.3A
16	1	1.29	20A	15.6A	25A	21.3A	30A	26.7A
14	2	1.63	25A	19.5A	35A	29.8A	40A	35.6A
12	3	2.05	35A	27.3A	45A	38.3A	50A	44.5A
10	5	2.59	50A	39.0A	60A	51.0A	70A	62.3A
8	8	3.26	70A	54.6A	80A	68.0A	90A	80.1A
6	13	4.12	100A	78.0A	120A	102.0A	125A	111.3A
4	21	5.19	130A	101.4A	160A	136.0A	170A	151.3A
3	26	5.83	150A	117.0A	180A	153.0A	195A	173.6A
2	33	6.54	175A	136.5A	210A	178.5A	225A	200.3A
1	42	7.35	210A	163.8A	245A	208.3A	265A	235.9A
0	53	8.25	245A	191.1A	285A	242.3A	305A	271.5A
00	67	9.26	285A	222.3A	330A	280.5A	355A	316.0A
000	85	10.40	330A	257.4A	385A	327.3A	410A	364.9A
0000	107	11.68	385A	300.3A	445A	378.3A	475A	422.8A

INGRESS PROTECTION (IP) RATING

The Ingress Protection rating is a two-digit number used to rate the degree of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact and water in mechanical casings and with electrical enclosures. The first digit represents protection against ingress of solid foreign objects. The second digit represents protection against harmful ingress of water. The higher each rating, the more protection is offered as shown in tables below.

Value	Protection from SOLIDS
X	No protection.
1	Protected against solid objects over 50mm e.g. hands, large tools etc.
2	Protected against solid objects over 12.5mm e.g. fingers, tools etc.
3	Protected against solid objects over 2.5mm e.g. screwdriver, thick wires etc.
4	Protected against solid objects over 1.0mm e.g. thin wires, screws etc.
5	Dust Protected. Limited protection against dust ingress (no harmful deposit).
6	Dust Tight. Totally protected against dust ingress.

Value	Protection from WATER
X	No protection
1	Protected against vertically falling drops of water. Should have no harmful effect.
2	Protected against vertically dripping water at any angle of up to 15° from the vertical. Should have no harmful effect.
3	Protected against water spray at any angle up to 60° from the vertical. Should have no harmful effect.
4	Protected against water splashing against the enclosure from any direction. Should have no harmful effect.
4K	Splashed water, at high pressure, only for road vehicles.
5	Protected against low pressure water jets from any direction. Should have no harmful effect.
6	Protected against high pressure water jets from any direction. Should have no harmful effect.
6K	Powerful water jets, at high pressure (flooding), only for road vehicles
7	Protected against harmful effects of 30 min. immersion in water at depth of 15cm (top of device) to 1M (bottom of device).
8	Protected against continuous immersion in water at a depth and conditions specified by the manufacturer.
9K	For pressure / steam jet cleaning, only for road vehicles.

IP67

↓ ↓↓ **Liquid Protection Rating**

Solid Protection Rating

IP = Ingress Protection

IP67 Example Catalogue Symbol For IP Rating

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IMPERIAL VS METRIC BOLT SIZES

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The following table lists a range of standard Imperial bolts including the number of threads per inch according to each of the different standards. Metric bolts are also listed based on closest matching diameter. Metric bolts are not equivalent to Imperial bolts. To ensure proper fit, a bolt must be threaded into a nut of the same type. ie UNC 1/4" bolt with a UNC 1/4" nut. However, if you wanted to bolt down a product that is specified with an M8 hole size, you could use either an M8 bolt or a 5/16" bolt, as they both require a hole size approximately 8mm in diameter.

IMPERIAL BOLTS						METRIC BOLTS		
Size (IMP.)	Size (MM)	BSW (TPI)	BSF (TPI)	UNC (TPI)	UNF (TPI)	Size (MM)	Metric Coarse (Thread Pitch)	Metric Fine (Thread Pitch)
#6	3.5	-	-	32	40	M3.5	0.6	0.35
#8	4.2	-	-	32	36	M4	0.7	0.5
3/16"	4.8	24	32	24	32	M5	0.8	-
#10	4.83	-	-	24	32	-	-	-
#12	5.5	-	-	24	28	-	-	-
1/4"	6.4	20	26	20	28	M6	1.0	-
5/16"	7.9	18	22	18	24	M8	1.25	1
3/8"	9.5	16	20	16	24	M10	1.5	1.25
7/16"	11	14	18	14	20	-	-	-
1/2"	13	12	16	13	20	M12	1.75	1.5
9/16"	14	12	16	12	18	M14	2.0	1.5
5/8"	16	11	14	11	18	M16	2.0	1.5
3/4"	19	10	12	10	16	M20	2.5	2.0
7/8"	22	9	11	9	14	M22	2.5	2.0
1"	25	8	10	8	12	M24	3.0	2.0
1-1/8"	29	7	9	7	12	M30	3.5	3.0
1-1/4"	32	7	9	7	12	M33	3.5	3.0

Abbreviations:

BSW = British Standard Whitworth.
BSF = British Standard Fine.

IMP. = Imperial.
TPI = Number of threads per inch.

UNC = Unified National Coarse.
UNF = Unified National Fine.
MM = Millimeter.

CALCULATING WATTS, AMPS & DC VOLTAGE

It is simple to calculate either DC Volts, Watts or Amps provided you know the other 2 values.
Just use the appropriate formula as shown below;

Unknown Value		Known values	Example	Answer
Watts	=	Amps x Volts	2A x 12Vdc	= 24W
Amps	=	Watts / Volts	24W / 12Vdc	= 2A
DC Volts	=	Watts / Amps	24W / 2A	= 12Vdc

IGNITION PROTECTION

IGNITION PROTECTED

An electrical device that has been certified Ignition Protected is suitable for use in marine engine compartments and fuel tank spaces. There are generally two test standards accepted by the Marine Industry – SAE J1171, External Ignition Protection of Marine Electrical Devices and UL1500, Ignition- Protection Test for Marine Products. The requirements and test procedures for the two standards are similar. Essentially, three test results will allow a device to be certified IGNITION-PROTECTED.
1. The device or component is constructed so that a defined flammable hydrocarbon mixture surrounding the device will not ignite if a normal electrical arc, spark or heat source ignites the mixture inside the device.
2. Under the conditions of item 1, the device or component has insufficient energy to ignite the mixture inside the device.
3. Under the conditions of item 1, the source of ignition is hermetically sealed from the surrounding mixture.
An Ignition- Protected device is not necessarily Explosion-Proof. Explosion-Proof devices are as applied to U.S. Coast Guard inspected vessels or as defined by the National Electric Code.

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Retail Clamshell - Single Cavity

**Counter Displays
Modular Multi Peg**

Assortment Trade Kit

Multi Cavity

Poly Bag

DIY Boxed Kit

Retail Clamshell Packaging Index

The packaging index below lists the product types and pack quantities that are available in clamshell packaging.
To order these products in blister packaging just add the SP or AP suffix to the part number.
ie. To order a 5pc 'Spare Pack' of a 10A Minifuses (on page 15), use the part number: MIN010SP.
ie. To order a 5pc 'Assortment Pack' of Minifuses (on page 15), use the part number: MIN000AP.

Product Type Series or Description	Spare Pack (SP) Pieces per Pack	Assortment Pack (AP) Pieces per Pack	Clamshell Type	Inner Box Packs per Box	Catalogue Page Number
SFE Cartridge Fuse	5	10	Mini	10	10
AGC Cartridge Fuse	5	5	Mini	10	10
5AG Cartridge Fuse	2	–	Mini	10	12
6AC / GBC Fuse	5	5	Mini	10	12
Micro2, Micro3 & Mcase	-	16	Mini	10	35
Micro2 Fuse	5	7	Mini	10	13
Micro3 Fuse	5	4	Mini	10	13
Low Profile Minifuse	5	5	Mini	10	14
Minifuse	5	5	Mini	10	15
Minifuse LED Indicating	2	5	Mini	10	15
Autofuse	5	5	Mini	10	17
Autofuse LED Indicating	2	5	Mini	10	17
Maxifuse	1	–	Mini	10	18
Maxifuse LED Indicating	1	-	Mini	10	18
Fusible Links PAL	1	–	Mini	10	20-22
Midi Fuse	1	–	Mini	10	24
Mega Fuse	1	–	Mini	10	25
Battery Fuse	1	–	Mini	10	28
Lift Truck Fuse ANL	1	–	Junior	10	27
Mini Blade Breaker	1	-	Mini	10	48
Auto Blade Breaker	1	–	Mini	10	49-51
Shortstop Breaker	1	–	MiniB	10	52-53
14 & 15 Series Breaker	1	–	Mini	10	54
18 Series Breaker	1	-	Midi	1	57
Mid Range Breaker	1	-	Midi	1	63
High-Amp Breaker	1	-	Maxi	1	64-66
3AG Panel Mt. Holder	1	-	Mini	10	69
3AG Inline Fuse Holder	1	-	Junior	10	69-71
Mini & Auto Fuse Inline	1	–	Junior	10	72-77
Maxi Fuse Inline Holder	1	–	Midi	10	80
Add-A-Circuits All Styles	1	-	Junior	10	83
Midi Fuse Block	1	–	Junior	10	81-82
Battery Fuse Bar Kit	1	–	Midi	10	106
Battery Tap	1	–	Mini	10	161-162
Relays	1	-	Junior	10	164-166
Fuse Pullers	1	-	Mini	10	44
Rocker Actuators	1	-	Mini	TBA	174
Rocker Switches	1	-	TBA	TBA	174

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CATALOGUE SYMBOLS

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NEW	New Product	**MIL·STD**	Military Standard / Grade	(i)	Information
UPDATED	Updated Product	**IGNITION PROTECTED**	Ignition Protected	**VIDEO**	Video Content
SILVER PLATED	Silver Plated	**DIY**	Do It Yourself		QR Code
IP66	Ingress Protection IP chart see page 193	**EV**	Electric Vehicle Application 500V, 800V, 850V, 1000V.	QR Code: 9999	**P** Scan this for more information

INTERNATIONAL APPROVAL MARKINGS

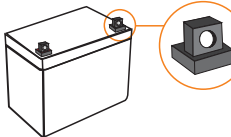|							
Certified Product / Australian Standard	AS (Australia) Australian Standard	ⓒ	CSA (Canada)	CCC	CCC (China)	DIN	DIN (Germany)
ABYC	American Boat & Yacht Council	cUL	UL (Canada)	CQC	CQC (China)	IEC	IEC (Global)
		cULus	UL (Canada & USA)	KTL	KTL (Korea)	TÜV	TÜV (Germany)
AEC	Automotive Electronics Council	UL	UL (USA)	PSE	METI (Japan)	⊕	ROHS (China)
		cUR	UR (Canada)	**JASO**	JASO (Japan)	RoHS	ROHS (EU)
		cURus	UR (Canada & USA)	JSAE	JSAE (Japan)	REACH	REACH (EU)
USCG	US Coast Guard	UR	UR (USA)	Ⓢ	SEMKO (Sweden)	Pb	Lead Free
		SAE	SAE (International)	CE	CE (EU)	HF	Halogen Free

AUTOMOTIVE BATTERY TERMINAL TYPES

TOP POST
Cone Shape
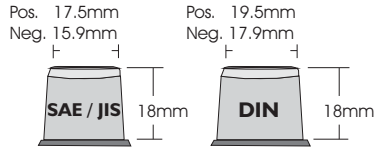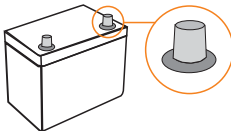
SIDE TERMINAL
Threaded Terminal
3/8"-16
Positive & Negative
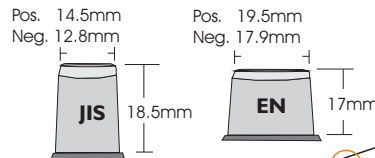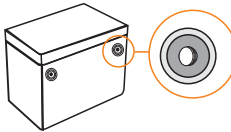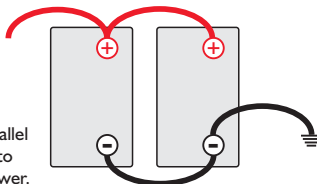
FLAG TERMINAL
Nut and Bolt Fixing

Pos. 17.5mm
Neg. 15.9mm
SAE / JIS 18mm

Pos. 19.5mm
Neg. 17.9mm
DIN 18mm

Pos. 14.5mm
Neg. 12.8mm
JIS 18.5mm

Pos. 19.5mm
Neg. 17.9mm
EN 17mm

FASTON TERMINAL
Quick Connect Terminal
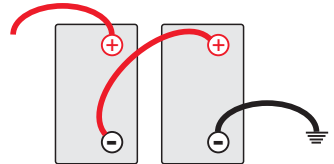F1 4.8mm, F2 6.35mm
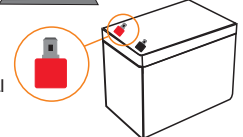
BATTERY PAIRING

Wired in Series

Wired in Parallel

Combine batteries in parallel to create a battery bank to increase your storage power.

Combine 2 x 12V batteries in series increases your voltage to 24V.

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