



Circuit Breaker Types

Automatic Reset

The circuit breaker cycles continuously during an overload condition until the overload is removed or corrected.



Modified Reset

The circuit breaker contains an additional resistive component that causes the device to remain open as long as power is available.



Manual Reset

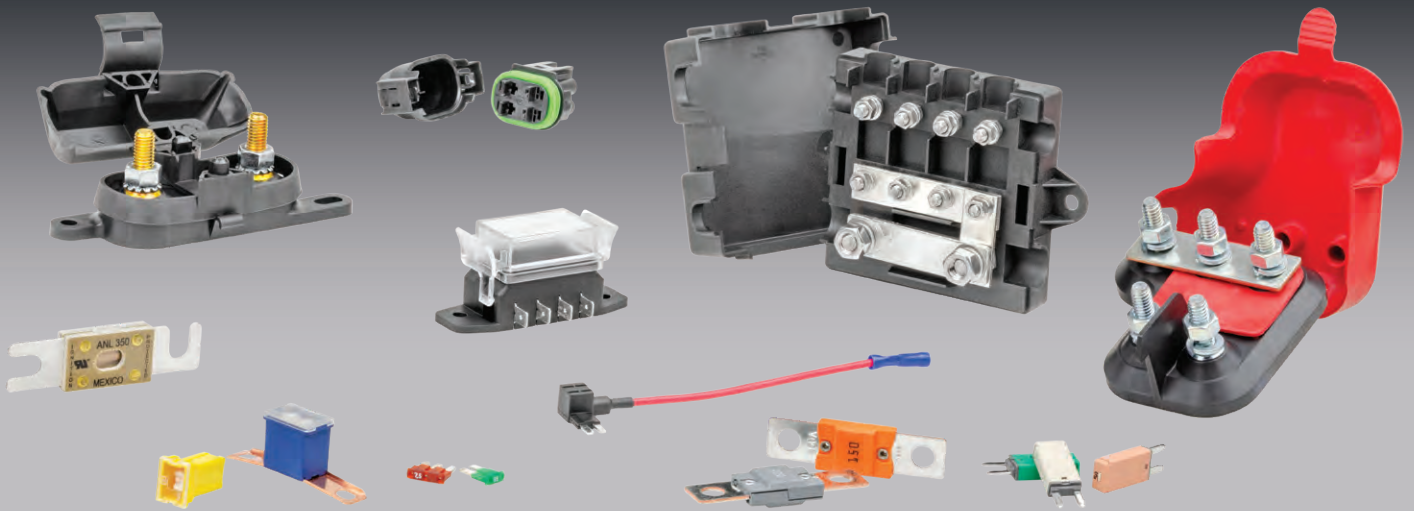
The circuit breaker contains a trip indicator button or lever that must be manually activated to return the device to normal operation.



Switchable

Circuit breaker operation is the same as 'Manual Reset' but with the additional trip button or lever allowing the user to disable the circuit.





Circuit Protection

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Circuit Protection

Circuit Breakers – General



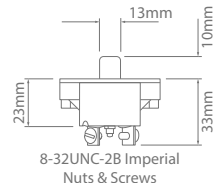
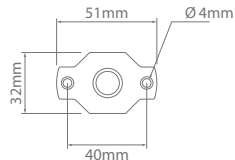
Made in North America

- Panel or surface mount option.
- Compact size.
- Manual or automatic reset methods.
- Broad operating temperature.
- Ideal for trucks, buses, RV's, portable generators, battery chargers.
- Made in North America.

Material : CDM, S55 Series Thermoplastic
 Ingress Protection : CDM Series IP66
 S55 Series IP54
 Approvals : SAE J1171
 S55 Series UL & CSA
 CDM, 121/123 Series SAE J553
 Operating Temperature : -40°C to 85°C



IP66

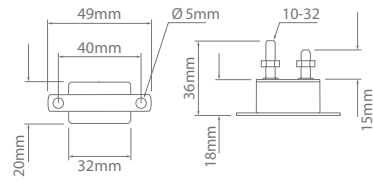
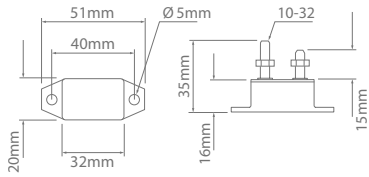


CDM Series – Panel Mount

3A	5A	10A	15A	Current Rating	30A	40A	50A	60A
CDM03	CDM05	CDM10	CDM15	20A CDM20	CDM30	CDM40	CDM50	CDM60

Manual reset.
 Not a Bussmann product.

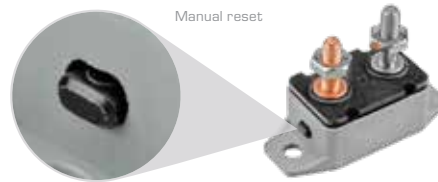
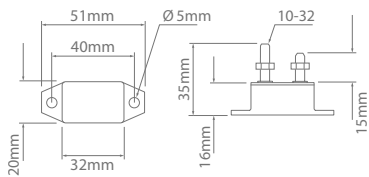
Circuit Protection



121 Series – Surface Mount

Material	Current Rating							
	8A	10A	15A	20A	25A	30A	40A	50A
Plastic	CB121-8	CB121-10	CB121-15	CB121-20	CB121-25	CB121-30	CB121-40	CB121-50
Metal	—	CB121-10M	CB121-15M	CB121-20M	CB121-25M	CB121-30M	CB121-40M	CB121-50M

Also available in packs of 10.
Automatic reset.



123 Series – Surface Mount

Material	Current Rating						
	8A	10A	15A	20A	25A	30A	40A
Plastic	—	CB123-10	CB123-15	CB123-20	CB123-25	CB123-30	CB123-40

Manual reset.



Accessories – 121/123 Series – Terminal Insulators

	Pack Qty – 1	Pack Qty – 10	Pack Qty – 100
Red	CB121BOOT-RED	CB121R/10	CB121R/100
Black	CB121BOOT-BLK	CB121B/10	CB121B/100



Circuit Protection



S55 Series – Panel Mount

Current Rating							
3A	5A	10A	15A	20A	25A	30A	35A
S5503	S5505	S5510	S5515	S5520	S5525	S5530	S5535

S55B00T Protective boot

Manual reset.

Not a Bussmann product.

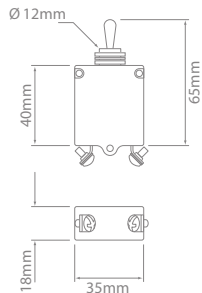
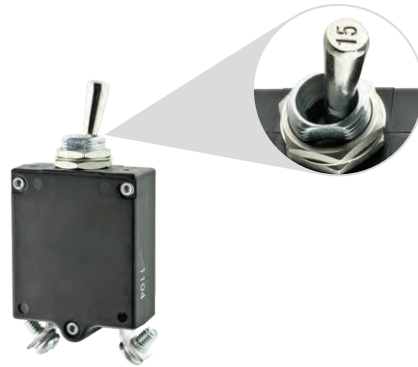
- Compact size.
- Switchable.
- Broad operating temperature.
- Ideal for passenger cars, trucks, buses, RV's, portable generators.
- Made in North America.



Material :
Approvals :
Operating Temperature :

Thermoplastic
UL1077, CSA
-20°C to 65°C

Made in North America



31 Series – Panel Mount

Current Rating			
5A	10A	15A	20A
CBW31-5	CBW31-10	CBW31-15	CBW31-20

Switchable.



Circuit Protection

Circuit Breakers – Heavy Duty



SDLM105



CB184P-120



CB185F-30

- Panel or surface mount option.
- Manual reset and switchable models.
- Broad operating temperature.
- Environmentally sealed – IP67 on most models.
- Ideal for trucks, buses, RV's, marine, battery chargers, DC audio systems.
- Made in North America.



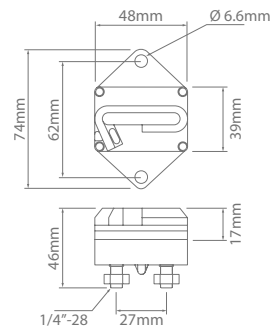
Made in North America

184/185 Series

Material : Thermoset Plastic
 Ingress Protection : IP67
 Approvals : CE, SAE J1171, SAE J1625
 Operating Temperature : -40°C to 85°C



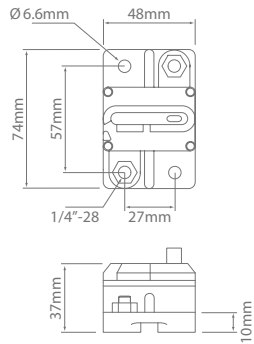
IP67



184P Series – Panel Mount

Current Rating		
80A	100A	120A
CB184P-80	CB184P-100	CB184P-120

Manual Reset.



Switchable -
Press to trip



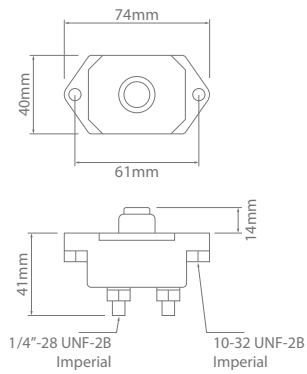
IP67



185F Series – Surface Mount

30A	40A	50A	60A	Current Rating 70A	80A	100A	120A	150A
CB185F-30	CB185F-40	CB185F-50	CB185F-60	CB185F-70	CB185F-80	CB185F-100	CB185F-120	CB185F-150

Switchable.



IP67



SDLM Series – Panel Mount

50A	60A	Current Rating 80A	105A	150A
SDLM50	SDLM60	SDLM80	SDLM105	SDLM150

Manual Reset.

Not a Bussmann product.



Circuit Protection

CB255-10



- Marine rated.
- Stainless steel hardware.
- Panel or surface mount options.
- Switchable.
- Broad operating temperature.
- Environmentally sealed – IP66.
- Ideal for marine applications, trucks, buses, RV's.
- Made in North America.



CB187F-100

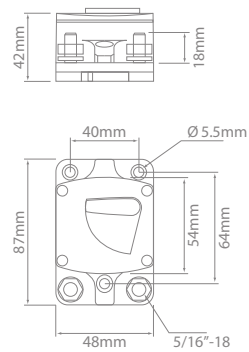
Made in North America

Material :
Approvals :

255 Series
187F Series

Thermoplastic
SAE J1171
SAE J553
SAE J1625, CE
-40°C to 85°C

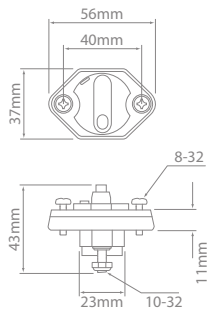
Operating Temperature :



187F Series – Surface Mount

30A	40A	50A	60A	70A
CB187F-30	CB187F-40	CB187F-50	CB187F-60	CB187F-70
80A	100A	120A	150A	200A
CB187F-80	CB187F-100	CB187F-120	CB187F-150	CB187F-200

Switchable.



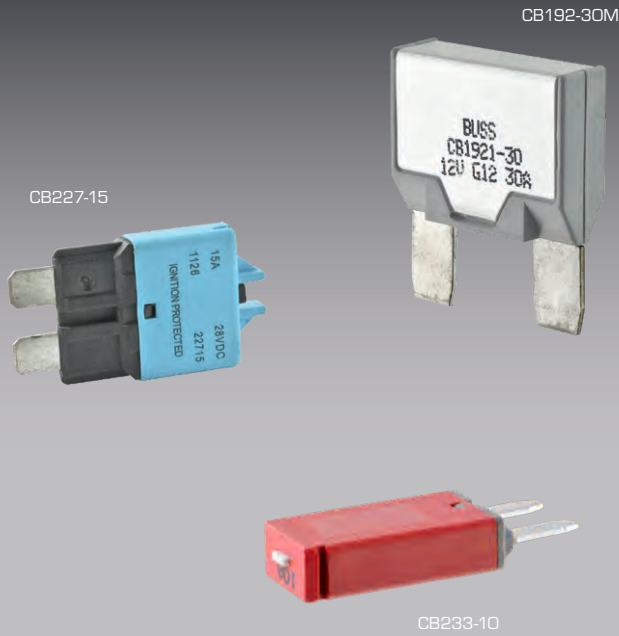
255 Series – Panel Mount

10A		15A		20A		Current Rating		35A		40A		50A			
CB255-10		CB255-15		CB255-20		25A		30A		CB255-35		CB255-40		CB255-50	

Switchable.

Circuit Protection

Circuit Breakers – Blade



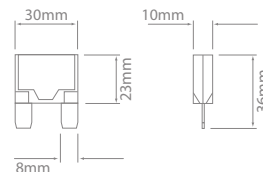
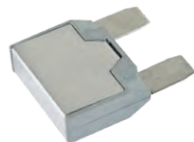
Made in North America

- Replaces standard blade fuse types.
- Manual or modified reset models.
- Broad operating temperature.
- Ideal for passenger cars, trucks, buses, RV's.
- ATC/ATO & ATM series colour-coded to current rating.
- Made in North America.

Material : Housing Thermoplastic
 Terminals Tin-plated Copper Alloy

Approvals : SAE J553
 Maxi & ATC/ATO Series SAE J1171

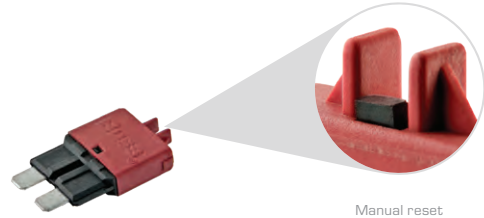
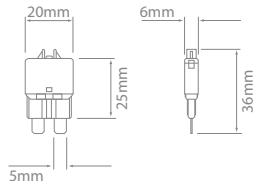
Operating Temperature : -40°C to 85°C



Maxi (MAX)

Pack Qty - 1	Current Rating (A)
CB192-20M	20
CB192-30M	30

Modified Reset.

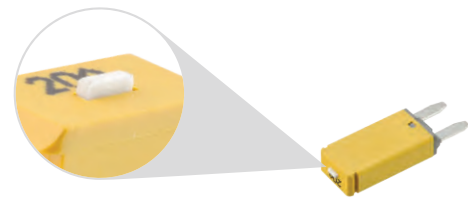
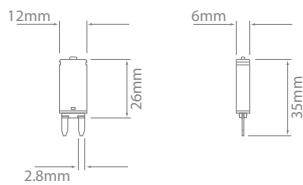


Manual reset

ATC/ATO

Pack Qty - 1	Pack Qty - 10	Current Rating (A)	Colour
CB227-5	CB227-5/10	5	Tan
CB227-7.5	CB227-7.5/10	7.5	Brown
CB227-10	CB227-10/10	10	Red
CB227-15	CB227-15/10	15	Blue
CB227-20	CB227-20/10	20	Yellow
CB227-25	CB227-25/10	25	White
CB227-30	CB227-30/10	30	Green

Manual Reset.



Manual reset

Mini (ATM)

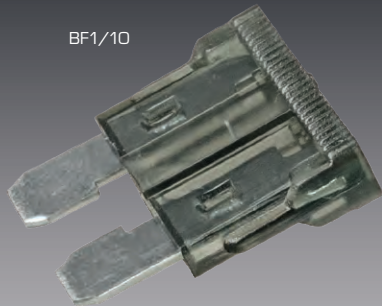
Pack Qty - 1	Pack Qty - 10	Current Rating (A)	Colour
CB233-5	CB233-5/10	5	Tan
CB233-7.5	CB233-7.5/10	7.5	Brown
CB233-10	CB233-10/10	10	Red
CB233-15	CB233-15/10	15	Blue
CB233-20	CB233-20/10	20	Yellow
CB233-25	CB233-25/10	25	White
CB233-30	CB233-30/10	30	Green

Manual Reset.



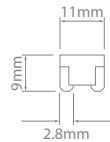
Circuit Protection

Fuses



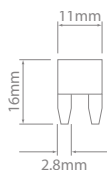
- Wide range of fuse types and current ratings.
- Assortment kits available.
- Colour coded to industry standards.

Blade – Micro (ATM-LP)



Pack Qty – 10	Current Rating (A)	Colour
MCBF5/10	5	Orange
MCBF7.5/10	7.5	Brown
MCBF10/10	10	Red
MCBF15/10	15	Blue
MCBF20/10	20	Yellow
MCBF25/10	25	Clear
MCBF30/10	30	Green

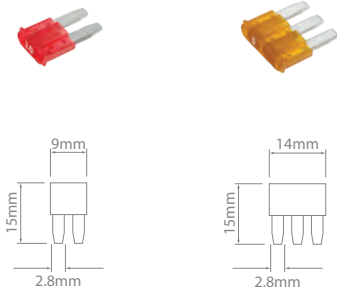
Blade – Mini (ATM)



Pack Qty – 10	Pack Qty – 100	Current Rating (A)	Colour
MF2/10	MF2/100	2	Grey
MF3/10	MF3/100	3	Purple
MF4/10	MF4/100	4	Pink
MF5/10	MF5/100	5	Orange
MF7.5/10	MF7.5/100	7.5	Brown
MF10/10	MF10/100	10	Red
MF15/10	MF15/100	15	Blue
MF20/10	MF20/100	20	Yellow
MF25/10	MF25/100	25	Clear
MF30/10	MF30/100	30	Green
MF35/10	MF35/100	35	Purple

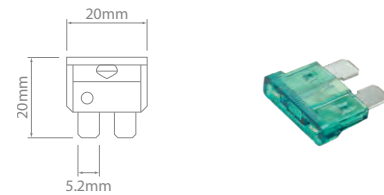
Blade – Micro 2/3 Blade (ATR & ATL)

ATR (2 Blade) Pack Qty – 10	ATL (3 Blade) Pack Qty – 10	Current Rating (A)	Colour
M2F5/10	M3F-5/10	5	Tan
M2F7.5/10	M3F-7.5/10	7.5	Brown
M2F10/10	M3F-10/10	10	Red
M2F15/10	M3F-15/10	15	Blue
M2F20/10	—	20	Yellow
M2F25/10	—	25	Clear
M2F30/10	—	30	Green



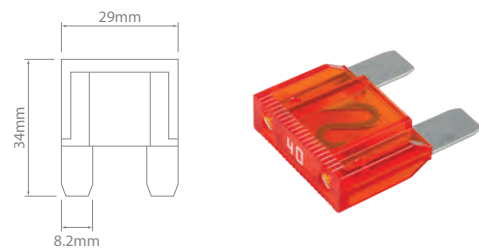
Blade (ATC/ATO)

Pack Qty – 10	Pack Qty – 100	Current Rating (A)	Colour
BF1/10	—	1	Black
BF2/10	BF2/100	2	Grey
BF3/10	BF3/100	3	Purple
BF4/10	BF4/100	4	Pink
BF5/10	BF5/100	5	Orange
BF7.5/10	BF7.5/100	7.5	Brown
BF10/10	BF10/100	10	Red
BF15/10	BF15/100	15	Blue
BF20/10	BF20/100	20	Yellow
BF25/10	BF25/100	25	Clear
BF30/10	BF30/100	30	Green
BF40/10	BF40/100	40	Dark Orange



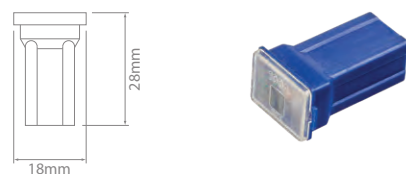
Blade – Maxi (MAX)

Part No.	Current Rating (A)	Colour
MB20	20	Yellow
MB30	30	Green
MB40	40	Orange
MB50	50	Red
MB60	60	Blue
MB70	70	Brown
MB80	80	Clear
MB100	100	Pink

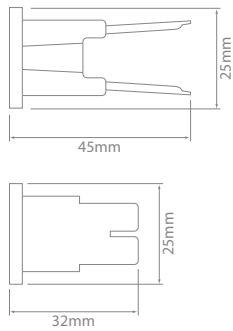
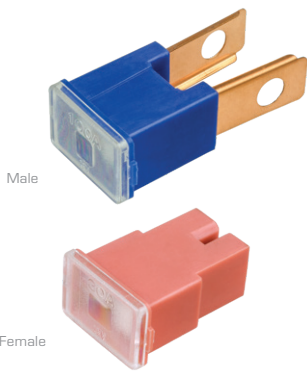


Fuse Link – Mini (MFL)

Part No.	Current Rating (A)	Colour
MFL20A	20	Light-Blue
MFL30A	30	Pink
MFL40A	40	Green
MFL50A	50	Red
MFL60A	60	Yellow
MFL80A	80	Black
MFL100A	100	Blue

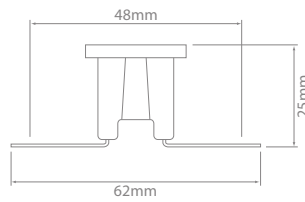
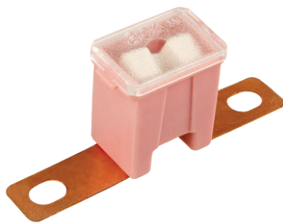


Circuit Protection



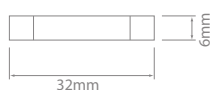
Fuse Link (FLM & FLF)

Male	Female	Current Rating (A)	Colour
FLM20A	FLF20A	20	White
FLM30A	FLF30A	30	Pink
FLM40A	FLF40A	40	Green
FLM50A	FLF50A	50	Red
FLM60A	FLF60A	60	Yellow
FLM80A	FLF80A	80	Black
FLM100A	FLF100A	100	Blue



Fuse Link - Flat (MFFL)

Part No.	Current Rating (A)	Colour
MFFL20A	20	White
MFFL30A	30	Pink
MFFL40A	40	Green
MFFL50A	50	Red
MFFL60A	60	Yellow
MFFL80A	80	Black
MFFL100A	100	Blue



Glass (3AG)

Pack Qty - 10	Current Rating (A)
3AG1/10	1
3AG3/10	3
3AG5/10	5
3AG7.5/10	7.5
3AG10/10	10
3AG15/10	15
3AG20/10	20
3AG25/10	25
3AG30/10	30
3AG35/10	35



BF-KIT



MF-KIT



MCBF-KIT



M2F-KIT



CBF-KIT

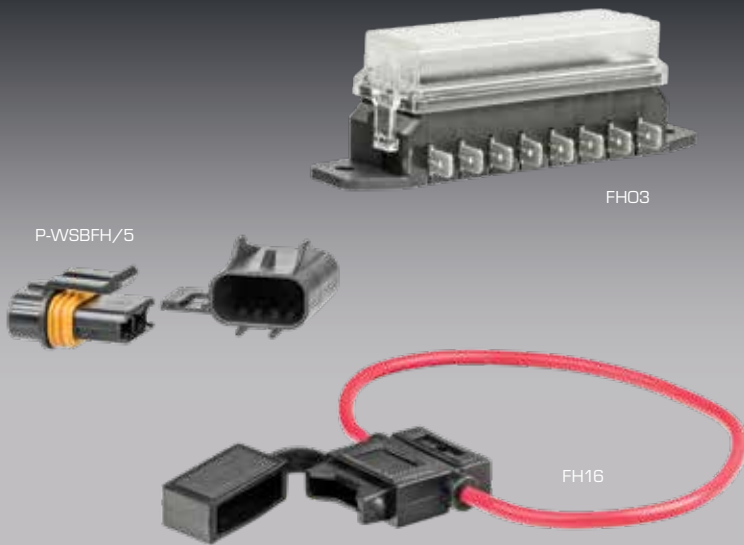
Fuse Assortment Kits

Part No.	Fuse Type	Contents		
BF-KIT	Blade (ATC/ATO)	20 x 5A Fuses 20 x 10A Fuses 20 x 15A Fuses 20 x 20A Fuses 20 x 25A Fuses 20 x 30A Fuses		
MF-KIT	Blade – Mini (ATM)	10 x 5A Fuses 10 x 7.5A Fuses 20 x 10A Fuses 20 x 15A Fuses 20 x 20A Fuses 10 x 25A Fuses 10 x 30A Fuses		
MCBF-KIT	Blade – Micro (ATM-LP)	20 x 5A Fuses 20 x 10A Fuses 20 x 15A Fuses 20 x 20A Fuses 20 x 25A Fuses 20 x 30A Fuses		
M2F-KIT	Blade (ATR) Fuse Link (FMM) Blade (ATL)	10 x 5A ATR Fuses 10 x 7.5A ATR Fuses 10 x 10A ATR Fuses 10 x 15A ATR Fuses 10 x 20A ATR Fuses 10 x 25A ATR Fuses 10 x 30A ATR Fuses	5 x 15A FMM Fuse Links 5 x 20A FMM Fuse Links 5 x 25A FMM Fuse Links 5 x 30A FMM Fuse Links 5 x 40A FMM Fuse Links	10 x 5A ATL 3 Blade Fuses 10 x 7.5A ATL 3 Blade Fuses 10 x 10A ATL 3 Blade Fuses 10 x 15A ATL 3 Blade Fuses 1 x Fuse Extractor Tool
CBF-KIT	Blade (ATC/ATO) Blade – Mini (ATM) Blade – Micro (ATM-LP)	10 x 10A ATC/ATO Fuses 10 x 15A ATC/ATO Fuses 10 x 20A ATC/ATO Fuses 10 x 25A ATC/ATO Fuses 10 x 30A ATC/ATO Fuses	20 x 10A ATM Fuses 20 x 15A ATM Fuses 20 x 20A ATM Fuses 20 x 25A ATM Fuses 20 x 30A ATM Fuses	20 x 10A ATM-LP Fuses 20 x 15A ATM-LP Fuses 20 x 20A ATM-LP Fuses 20 x 25A ATM-LP Fuses 20 x 30A ATM-LP Fuses

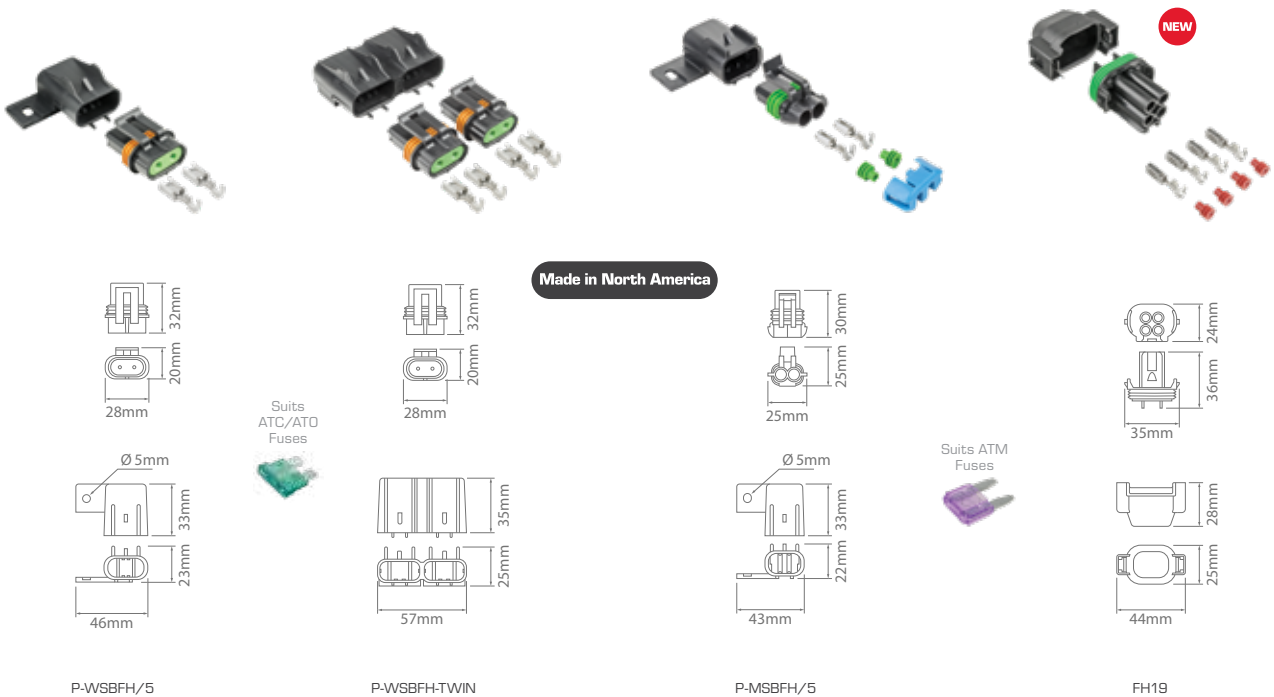


Circuit Protection

Fuse Holders

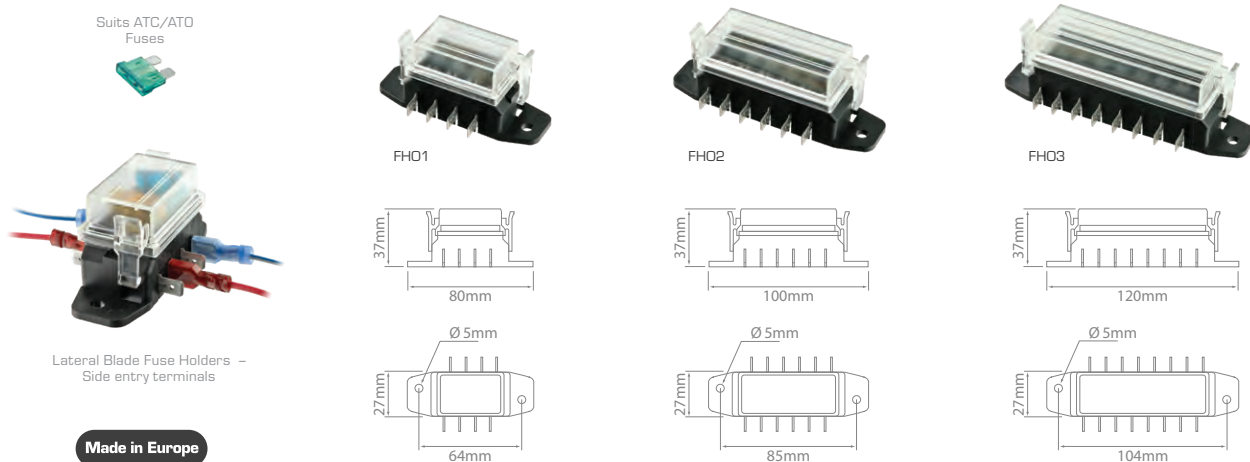


- Wide variety of styles for both blade and glass fuse types.
- Packard™ weatherproof kits available in single or double housing.
- Clear polycarbonate covers on Lateral & Axial Fuse Holders provides protection & easy visual inspection.



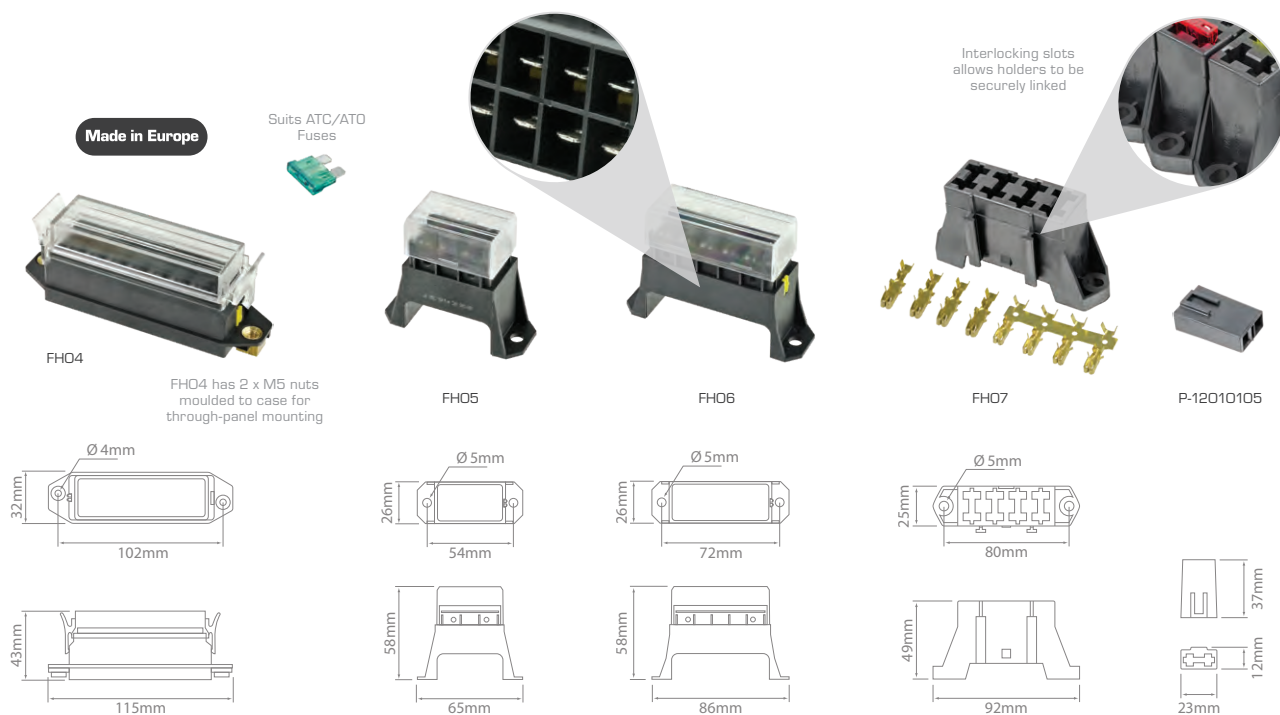
Fuse Holders – Blade – Weatherproof Kits

Part No.	Housing Type	Fuse Type	Output Current Rating Per Terminal (A)	Kit Contents
P-WSBFH/5	Mountable	ATC/ATO	30	5 x Cover (12033731) 10 x Contacts (12066614) 5 x Fuse Holder (12033769)
P-WSBFH-TWIN	Double	ATC/ATO	30	1 x Cover (12059426) 4 x Contacts (12066614) 2 x Fuse Holder (12033769)
P-MSBFH/5	Mountable	ATM	20	5 x Cover (15300027C) 10 x Contacts (12129493) 5 x Retainers (15300014) 5 x Fuse Holder (15300027) 10 x Seals (15324982)
FH19 NEW	Mountable	ATM	20	1 x Cover (2066502-3) 4 x Contacts (968857-1) 1 x Fuse Holder (2066046-2) 4 x Seals (P-15324973)



Fuse Holders – Blade – Lateral

Part No.	Seats	Fuse Type	Output Current Rating Per Terminal (A)
FH01	4	ATC/ATO	30
FH02	6	ATC/ATO	30
FH03	8	ATC/ATO	30



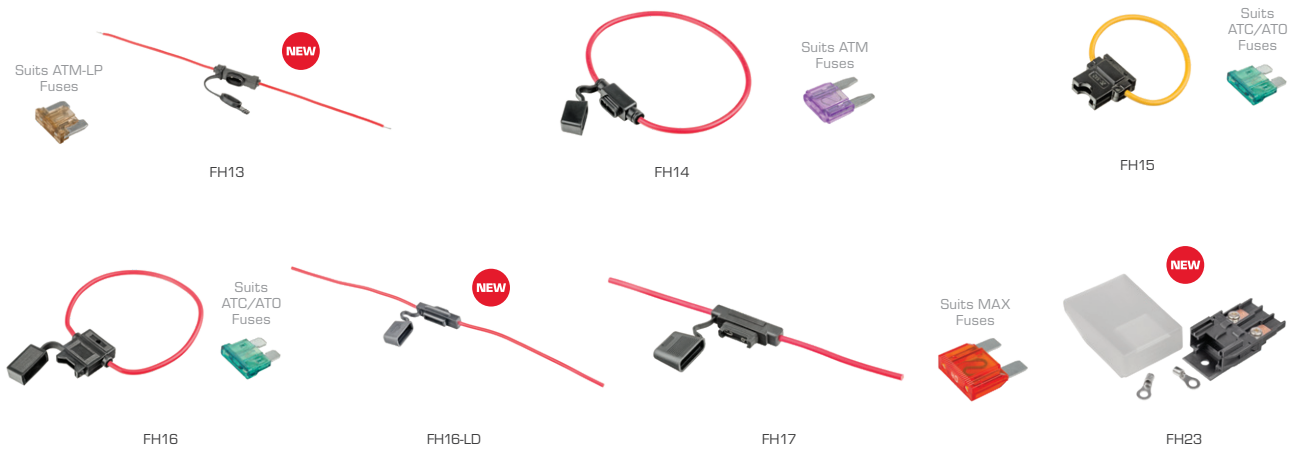
Fuse Holders – Blade – Axial

Part No.	Seats	Fuse Type	Output Current Rating Per Terminal (A)
FH04	8	ATC/ATO	30
FH05	4	ATC/ATO	30
FH06	6	ATC/ATO	30
FH07	4	ATC/ATO	30
P-12010105	1	ATC/ATO	30

Supplied with contacts: 4x 3–5mm², 4x 3–5mm² bussed
For use with contact P-12020321/100

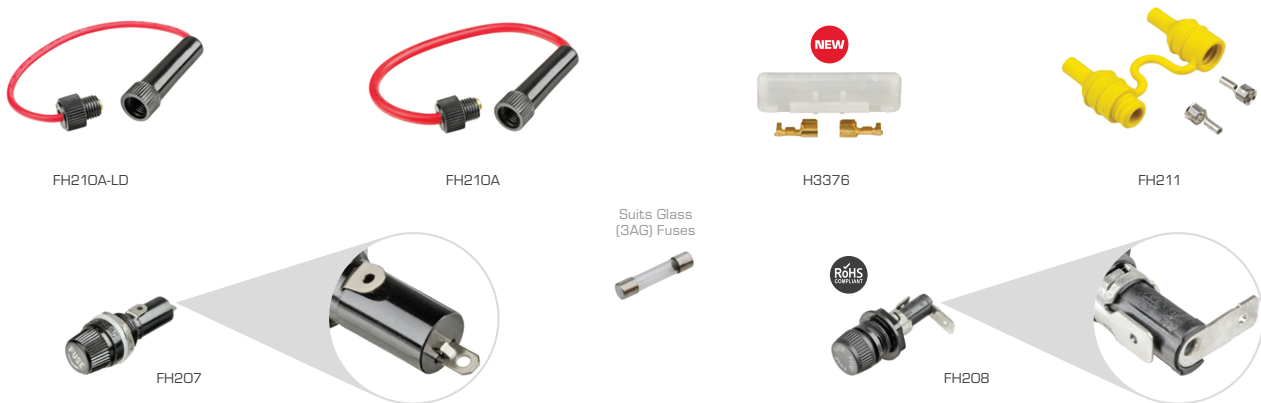


Circuit Protection



Fuse Holders – Blade

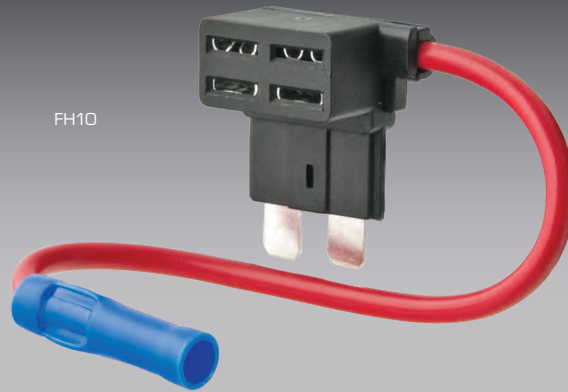
Part No.	Fuse Type	Current Rating (A)	AWG	Wire Size (mm ²)	Wire Length (mm)
FH13 NEW	Blade – Micro (ATM-LP)	10	20	0.5	260
FH14	Blade – Mini (ATM)	30	12	3.3	300
FH15	Blade (ATC/ATO)	30	12	3.3	180
FH16	Blade (ATC/ATO)	40	12	3.3	300
FH16-LD NEW	Blade (ATC/ATO)	20	16	1.5	300
FH17	Blade – Maxi (MAX)	60	8	8.3	260
FH23 NEW	Blade – Maxi (MAX)	50	Ring terminals 2.5–6mm ² . Ø6mm mounting hole. Protective cover		



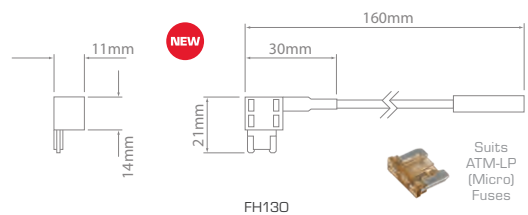
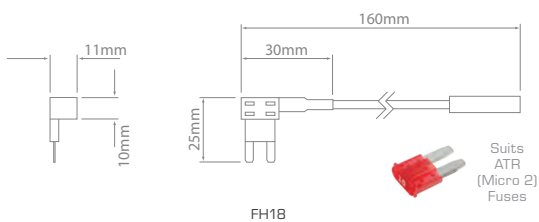
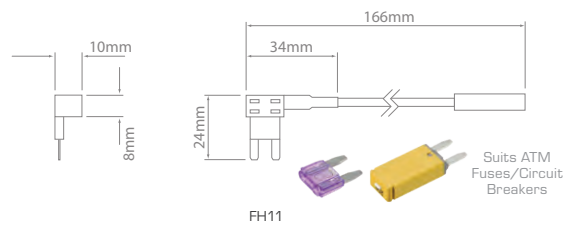
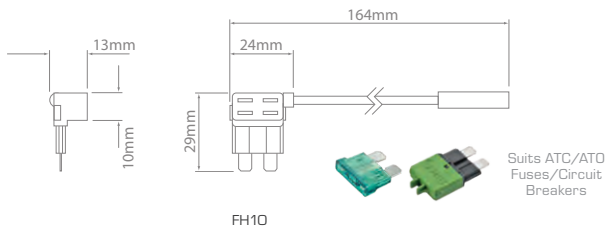
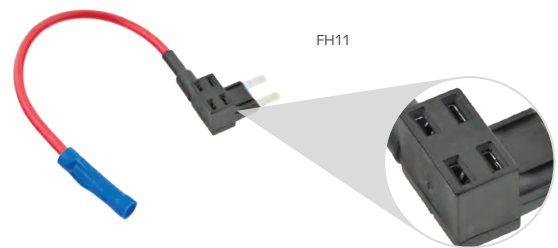
Fuse Holders – Glass (3AG)

Part No.	Style	Current Rating (A)	AWG	Wire Size (mm ²)	Wire Length (mm)
FH210A-LD	Inline	20	14	4	160
FH210A	Inline	35	10	6	160
H3376 NEW	Inline, hinged	30	18–12	1–4.5	
FH211	Inline	30	Water resistant, rubber		
FH207	Panel Mount	10	Mounting Hole – 15mm		
FH208	Panel Mount	16	Mounting Hole – 15mm		

- Provides an additional protected circuit without splicing or soldering.
- Easy & safe installation.
- Seamless crimp terminal on fly lead.
- Models suiting standard, mini or micro blade fuses.



Current Rating : 10A per circuit
Cable Size : 4mm/1.84mm²



Blade Fuse Taps

Fuse Type	ATC/ATO	ATM (Mini)	ATR (Micro 2)	ATM-LP (Micro)
Part No.	FH10	FH11	FH18	FH130 NEW



Circuit Protection

Blade Fuse Panels



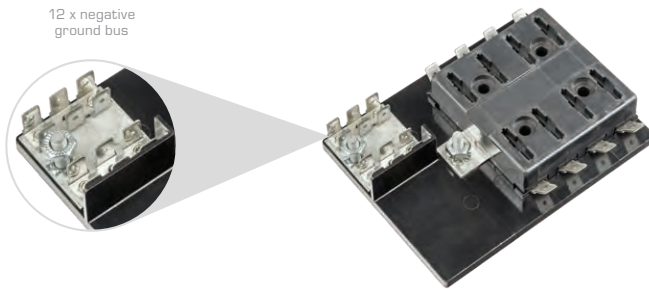
FH406



FH108

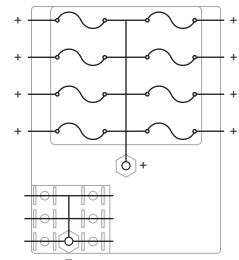
- 6, 8 or 12 fuse models.
- Suits ATC/ATO fuses/circuit breakers.
- 6.3mm blade or 4.3mm screw terminals.
- 6 or 12 circuit negative ground bus.
- Inbuilt negative busbar popular in marine applications where ground returns need to run back to the battery.
- Ideal for use with trucks, buses, boats & RV's.
- Marine models feature:
 - Dual inputs for power
 - 84 icon decal set
 - Lockable splash covers
 - Hold 2 spare fuses inside cover

Max. Total Input Rating :	100A
Max. Output Rating (Per Terminal) :	30A
Housing :	Thermoplastic
Cover :	Polycarbonate
Contacts :	Tinned Copper
Operating Temperature :	-20°C to 85°C

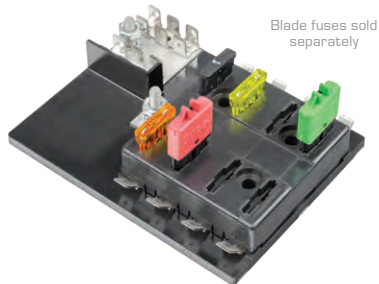


12 x negative ground bus

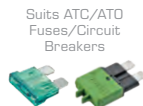
Made in North America



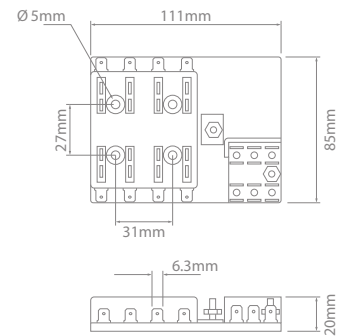
12 x negative ground bus



Blade fuses sold separately



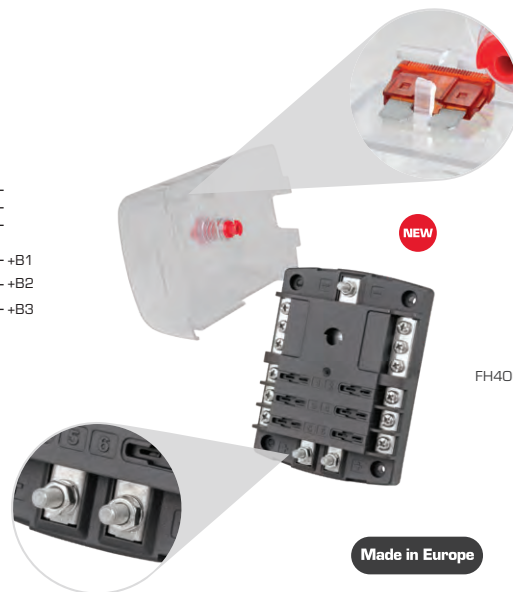
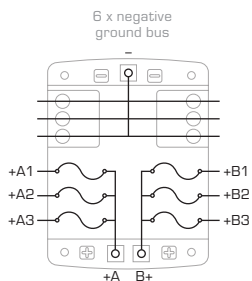
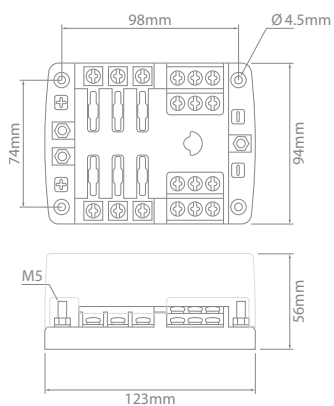
Suits ATC/ATO Fuses/Circuit Breakers



Blade Fuse Panel

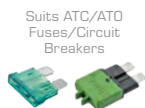
Part No.	Seats	Ground Bus	Terminals
FH108	8 x ATC/ATO	12 circuits	6.3mm Blade

Circuit Protection

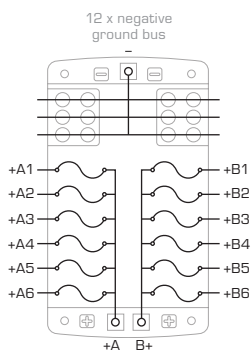
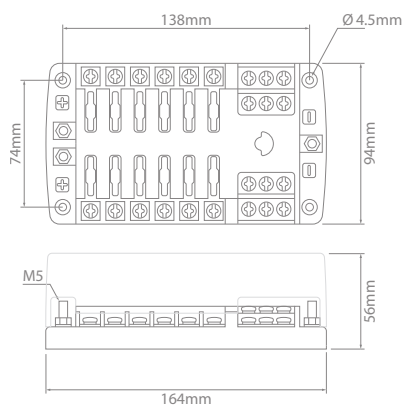


Holds 2 spare fuses inside of cover

Dual inputs for power on both models



Suits ATC/ATO Fuses/Circuit Breakers



Blade Fuse Panel – Marine NEW

Part No.	Seats	Ground Bus	Terminals
FH406	6 x ATC/ATO	6 circuits	4.3mm Screw
FH412	12 x ATC/ATO	12 circuits	4.3mm Screw

Supplied with 84 icon decal set.



Circuit Protection

Weatherproof Fuse Panels



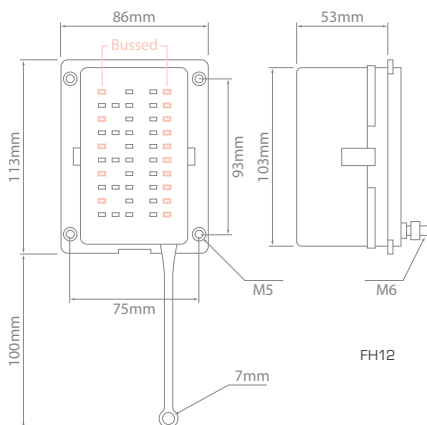
IP66 Made in North America

- Mini blade circuit breakers/fuses and micro relay panels.
- Efficient power distribution in a rugged compact form for applications in marine, construction, agriculture, heavy trucking, specialty vehicles.
- Weatherproof enclosure – IP66, when cover, cable seals, and cavity plugs are installed.
- Bussed (FH12) or non-bussed (FH20).
- Broad operating temperature.
- Made in North America.

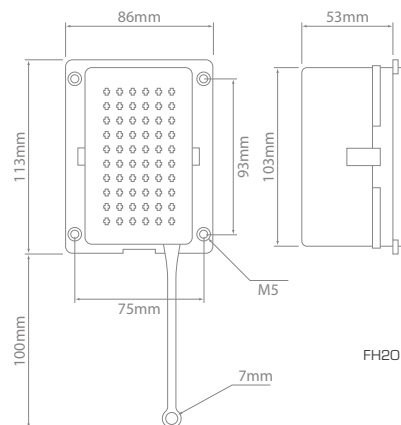
Max. Input Terminal Rating : FH12 M6 Studs 80A
Max. Output Terminal Rating : 30A
Housing : Black Thermoplastic
Ingress Protection : IP66*
Operating Temperature : -40°C to 125°C

* IP66-IEC 60529 (Valid when properly installed with cover, sealed terminals, and cavity plugs.)

- Seats :
- 10 x Bussmann Mini Blade Circuit Breakers / Blade – Mini Fuses (ATM)
 - 5 x IONNIC Micro 280 Series Relays



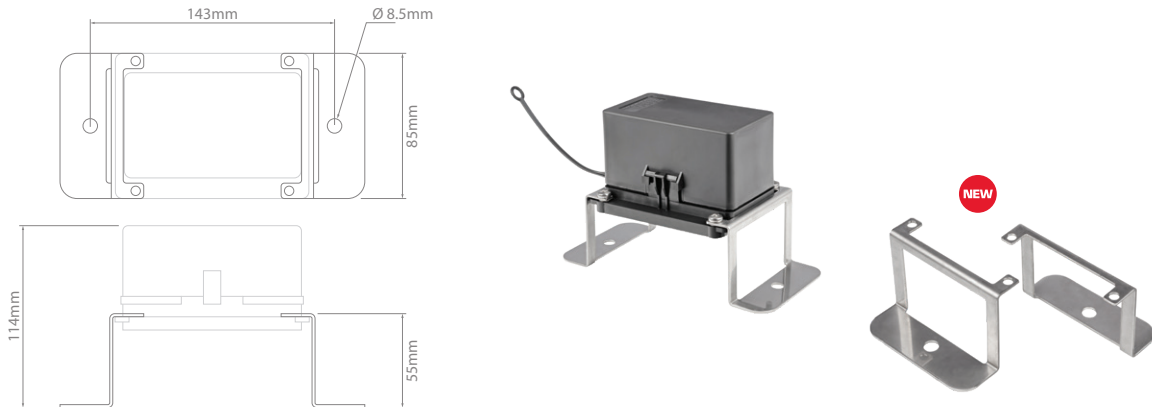
- Seats :
- Bussmann Mini Blade Circuit Breakers / Blade – Mini Fuses (ATM)
 - IONNIC Micro 280 Series Relays



Weatherproof Fuse Panels

Part No.	Description	Bussed
FH12	Seats 10 x Bussmann Mini Blade Circuit Breakers / Blade – Mini Fuses (ATM), 5 x Micro 280 Series Relays	Yes
FH20	60 Position User Configurable	No

Contacts not supplied with fuse panels.



Weatherproof Fuse Panels – Mount NEW

Part No.	Description
FH-BKT	Stainless steel mount. Sold individually. Suits FH12 & FH20



P-12129409/100



968875-1/100



968876-1/100

Weatherproof Fuse Panels – Contacts

Pack Qty – 100	Type (2.8mm)	Wire Size (mm ²)	Cable O.D. Range (mm)	Suits
P-12129409/100	Socket	1.0 – 2.0	2.48 – 3.05	FH12
968875-1/100	Socket	0.5 – 1.0	1.3 – 2.1	FH20
968876-1/100 NEW	Socket	1.0 – 2.5	2.2 – 3.0	FH20



P-12010300/100



P-15324981/100



P-15324980/100



P-15324982/100



P-15324983/100



282081-1/100



281934-2/100

Weatherproof Fuse Panels – Seals & Cavity Plugs

Pack Qty – 100	Description	Cable O.D. Range (mm)	Connector Cavity Ø (mm)	Colour	Suits
P-12010300/100	Cavity Plug	—	6.7	Green	FH12
P-15324981/100	Seal	4.30 – 3.45	6.7	Blue	FH12
P-15324980/100	Seal	3.49 – 2.81	6.7	Grey	FH12
P-15324982/100	Seal	2.85 – 2.03	6.7	Green	FH12
P-15324983/100	Seal	1.70 – 1.29	6.7	Red	FH12
282081-1/100	Cavity Plug	—	5.7	Red	FH20
281934-2/100	Seal	1.7 – 2.4	5.7	Yellow	FH20



Circuit Protection

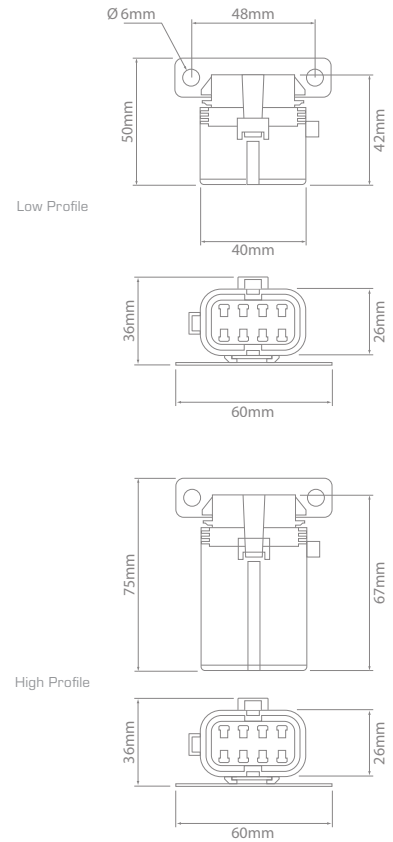
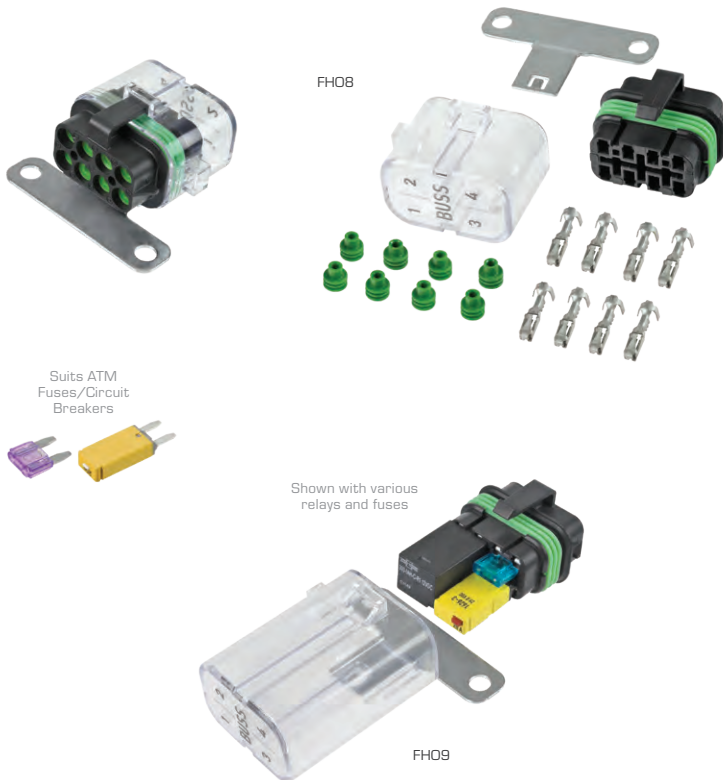
Mini Electrical Centres



IP66 Made in North America

- Designed to accept up to 2 x Micro 280 series relays, 4 x mini blade fuses/circuit breakers or a combination of both relays & fuses/circuit breakers.
- Compact size.
- Easy mounting.
- Eliminates excess wiring.
- High quality Packard™ terminals.
- Clear polycarbonate cover provides protection & easy visual inspection.
- Environmentally sealed – IP66.
- Made in North America.

Current Rating :	120A max.
Cover :	Polycarbonate
Body :	Thermoplastic
Seal :	Silicone Rubber
Contacts :	Tinned Brass
Bracket :	Zinc Plated Steel
Ingress Protection :	IP66
Operating Temperature :	-40°C to 125°C



Mini Electrical Centre – Kits

Part No.	Cover
FH08	Low Profile
FH09	High Profile

Kits contain:
 1 x Mini Electrical Centre Body
 1 x Mini Electrical Centre Cover
 1 x Mounting Bracket
 8 x Socket 0.8-1mm² (P-12077411)
 8 x Seals 0.8-1mm² (P-15324982)



P-12077411/100



P-12129493/100

Mini Electrical Centres – Contacts

Pack Qty – 100	Type (2.8mm)	Wire Size (mm ²)	Cable O.D. Range (mm)
P-12077411/100	Socket	0.5 – 1.25	2.03 – 3.12
P-12129493/100	Socket	2.0 – 3.0	2.45 – 3.80

Packard™ products.



P-15324982/100



P-15324980/100



P-12010300/100

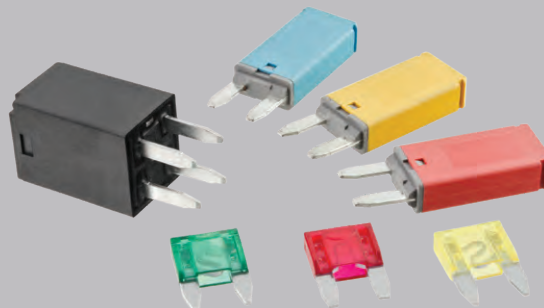
Mini Electrical Centres – Seals & Cavity Plugs

Pack Qty – 100	Description	Cable O.D. Range (mm)	Connector Cavity Ø (mm)	Colour
P-15324982/100	Seal	2.85 – 2.03	6.7	Green
P-15324980/100	Seal	3.49 – 2.81	6.7	Grey
P-12010300/100	Cavity Plug	—	6.7	Green

Packard™ products.

Mini Electrical Centres are compatible with:

- IONNIC Micro 280 Series Relays.
- Bussmann Mini (ATM) Blade Circuit Breakers – page 91.
- Blade – Mini Fuses (ATM) – page 92.



High Profile model required if using relays or circuit breakers.

Circuit Protection

Modular MFL Fuse Holder

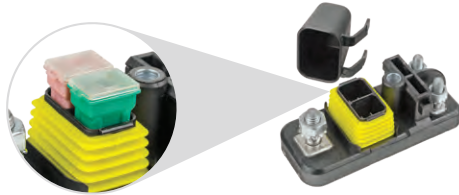


Made in North America

- Designed for high current applications.
- Suitable for extreme moisture and high vibration environments.
- Silicone seal and removable cover offer a weather-tight enclosure for fuses.
- Multiple units can be connected together using a busbar.
- Made in North America.

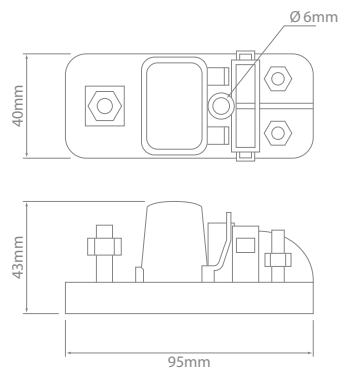
Body : Thermoplastic
Seal : Silicone Rubber
Terminal : Tinned Copper
Studs : Plated Steel
Ingress Protection : IP66 (excluding studs)
Approvals : SAE 31171 (ignition protection)
Operating Temperature : -40°C to 85°C

Holds up to
2 x Mini Fuse
Links (MFL)
Page 93



Multiple units can be
connected together
using a busbar

Suits MFL
Fuse Links



FH22



3771BUS-2



3771BUS-3

Modular MFL Fuse Holder

Part No.	Seats	Fuse Type	Current Rating (A)
FH22	2	Fuse Link – Mini (MFL)	20 – 60 (each)
3771BUS-2	Busbar – 2 position		
3771BUS-3	Busbar – 3 position		

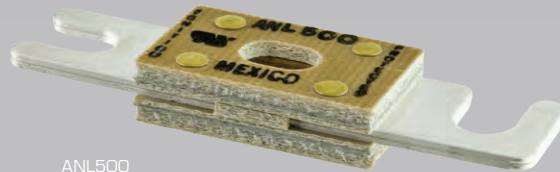
- Power distribution protection.
- High current ratings.
- Compact size.
- Secure bolt-in connection.
- AMG series colour-coded to current rating.
- AMI & ANL series allow easy fuse inspection.
- Ideal for use in mining and emergency service vehicles, battery chargers and inverters.



AMG125

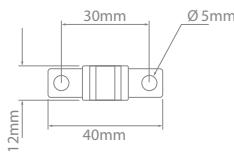


AMI80



ANL500

Voltage Rating :	AMI, AMG	32V
	ANL	80V
Terminal :	AMI	Tin Plated Brass
	AMG	Copper
	ANL	Silver Plated Copper
Operating Temperature :		-40°C to 125°C



Made in North America



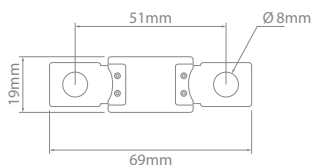
AMI100



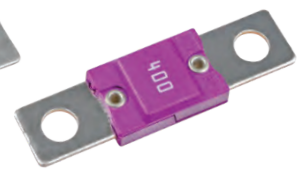
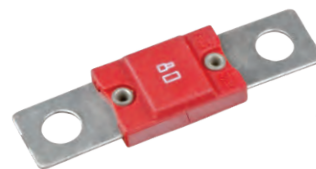
AMI00

AMI Series

30A Orange	40A Green	50A Red	60A Yellow	70A Brown	80A White	100A Blue	125A Pink	150A Grey	175A Beige	200A Purple
AMI30	AMI40	AMI50	AMI60	AMI70	AMI80	AMI100	AMI125	AMI150	AMI175	AMI200



Made in North America



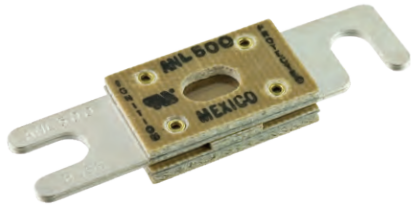
AMG Series

40A White	60A White	80A Red	100A Yellow	125A Green	150A Orange	175A White
AMG040*	AMG060*	AMG080	AMG100	AMG125	AMG150	AMG175
200A Blue	225A Beige	250A Pink	300A Grey	400A Purple	500A Brown	
AMG200	AMG225	AMG250	AMG300	AMG400	AMG500	

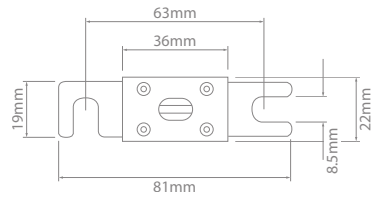
* Not a Bussmann product. Not made in North America.



Circuit Protection

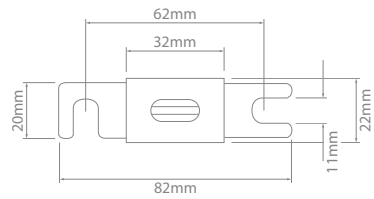


Made in North America



ANL Series – Bussmann

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



ANL Series – Ceramic

250A ANL250	300A ANL300	400A ANL400	500A ANL500
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Not a Bussmann product.

- Fast-acting T-Class fuses help prevent equipment damage caused by short-circuit events.
- Exceptional current limitation.
- 200kA interrupting rating complies with NEC Section 110.9 for today's large capacity systems.
- Ideal for critical industrial or commercial applications that have specific current limitation requirements.
- Made in North America.

NEW

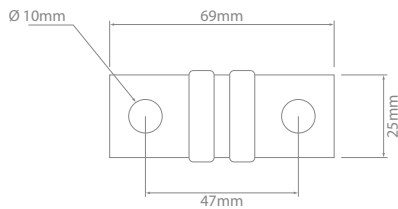


T-Class Fuses

Approvals :

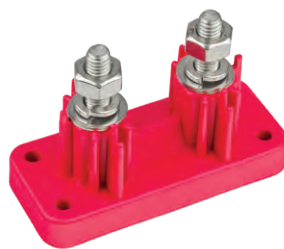
CE, CSA, UL, RoHS

Made in North America



T-Class Fuses **NEW**

225A	300A	350A	400A
JJN225	JJN300	JJN350	JJN400



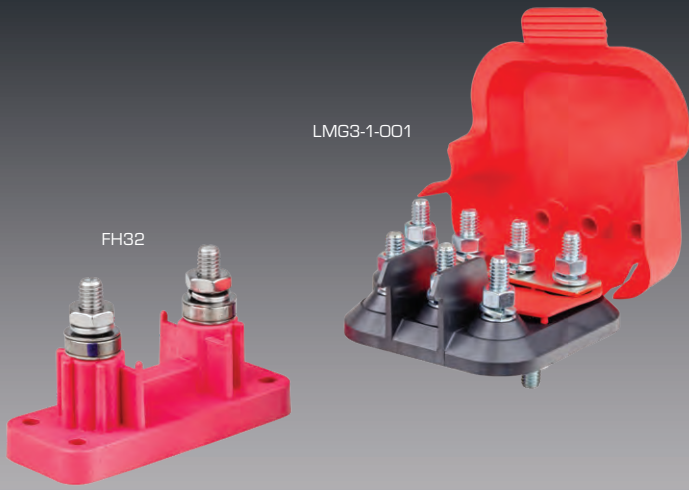
T-Class Fuses – Fuse Holder **NEW**

Part No.	Maximum Voltage	Post	Current Rating @ 12V
FH30	48	3/8"	Up to 400A

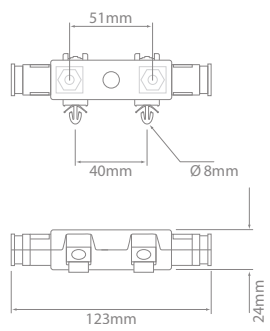
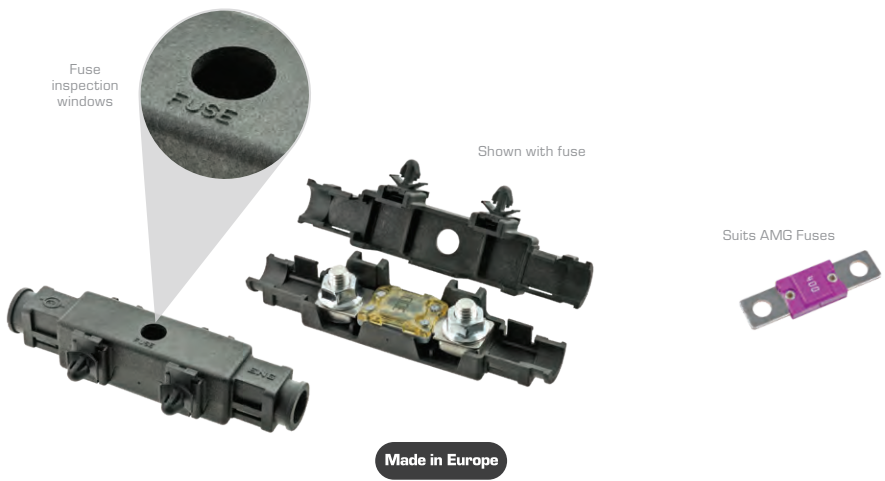


Circuit Protection

Bolt-in Fuse Holders



- Used for primary branch fusing.
- Models to suit AMI, AMG, ANL and T-Class fuses.
- Ideal for mining, agriculture, bus, truck, marine and specialty vehicle applications.
- FH Series range features stainless steel hardware.

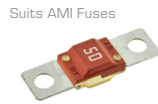
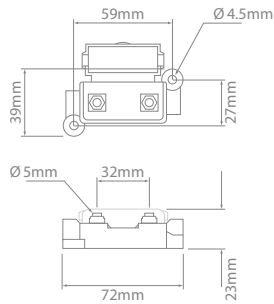


Bolt-in Fuse Holders – Inline/Panel Mount

Part No.	Fuse Type
AMGFH2	AMG

Fuses not included.

Circuit Protection



Suits AMI Fuses

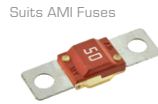
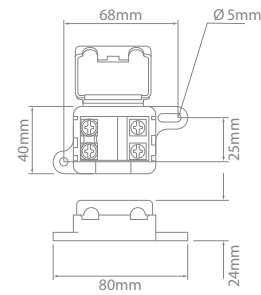
Made in Europe



AMIFH



Shown with fuse

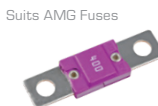
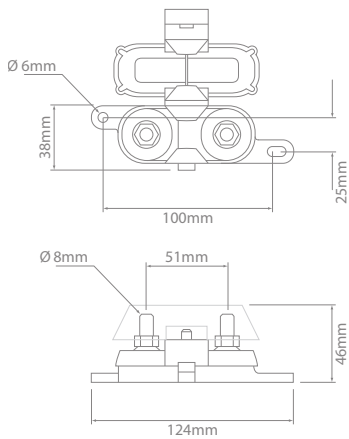


Suits AMI Fuses

AMIFH-DUAL



Shown with fuses



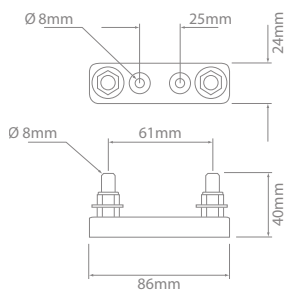
Suits AMG Fuses

Made in North America



AMGFH1

Shown with fuse



Suits ANL Fuses

Made in North America



ANLFH1

Shown with fuse



Bolt-in Fuse Holders – Surface Mount

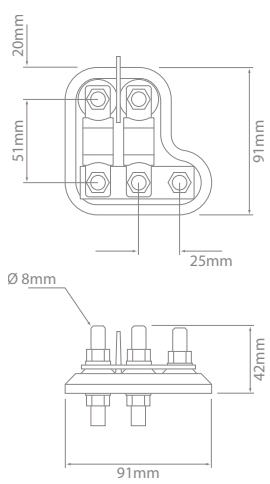
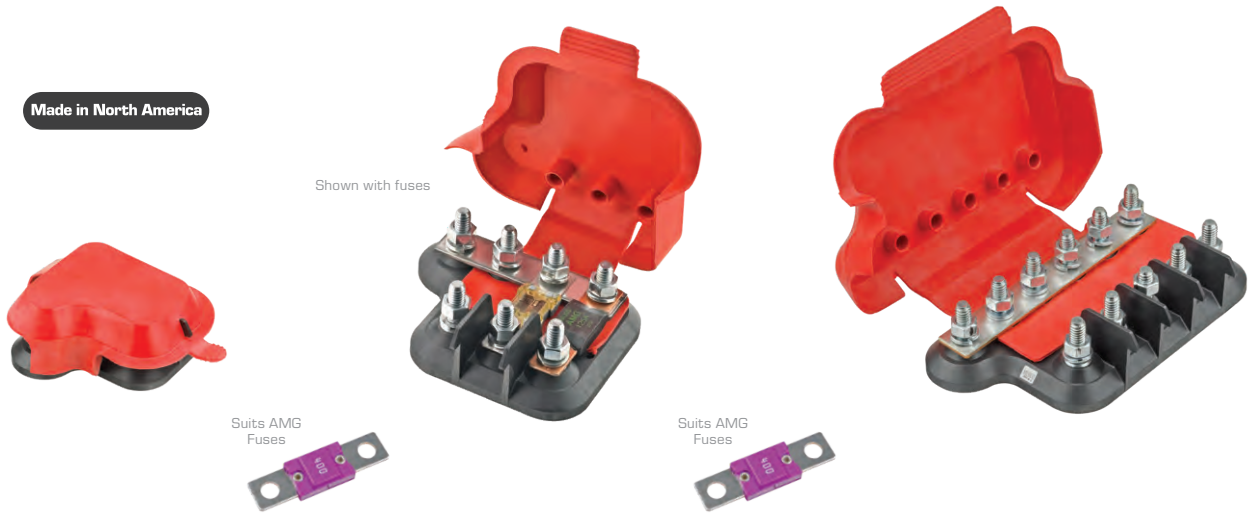
Part No.	Fuse Type
AMIFH	AMI
AMIFH-DUAL	AMI
AMGFH1	AMG
ANLFH1	ANL

AMIFH & AMIFH-DUAL are not Bussmann products.
Fuses not included.

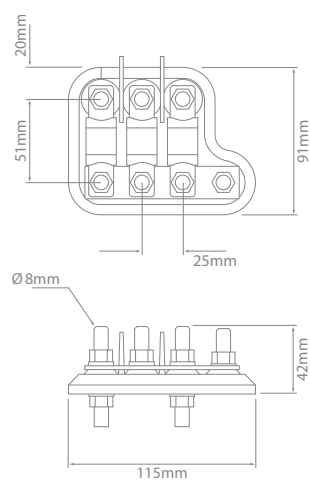


Circuit Protection

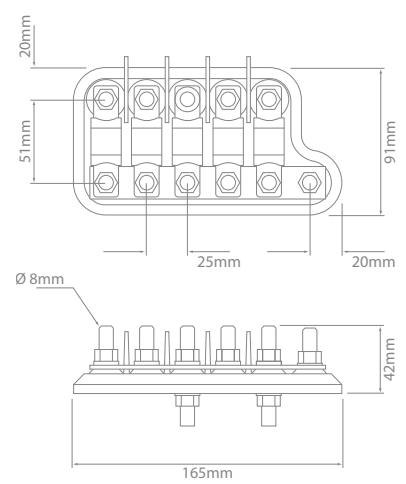
Made in North America



LMG2-1-001



LMG3-1-001



LMG5-1-001

Bolt-in Fuse Holders – Surface Mount – Bussed

Part No.	Fuse Type
LMG2-1-001	2 x AMG
LMG3-1-001	3 x AMG
LMG5-1-001	5 x AMG

One input connection to power all fuses.
Fuses not included.

Blue Dot – Enhanced Performance

Certain components feature brass or plated brass material and are marked with a blue mark. These components pass current more efficiently than steel. Ensure blue dot components are kept in their correct conductive location (factory location). Failure to do so can result in degraded performance and premature device failure.



Blue Dot

Made in North America



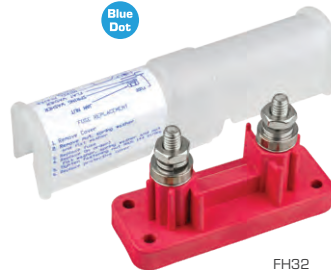
Stainless steel hardware on all models. Brass washers on FH31 & FH33



FH30



FH31



FH32



FH33



Suits T-Class Fuses



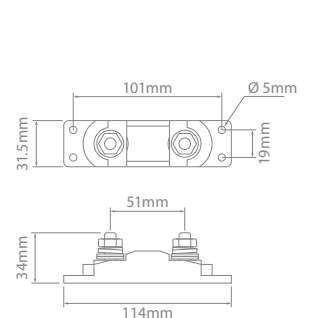
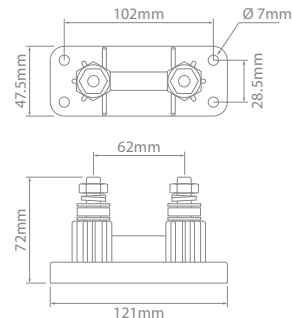
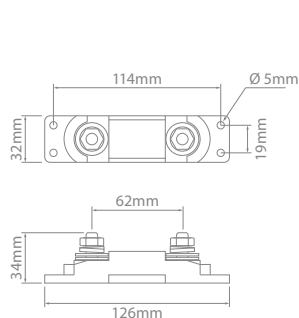
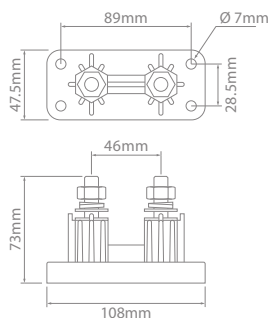
Suits ANL Fuses



Suits ANL (Ceramic only) Fuses



Suits AMG Fuses



Bolt-In Fuse Holders – FH Series NEW

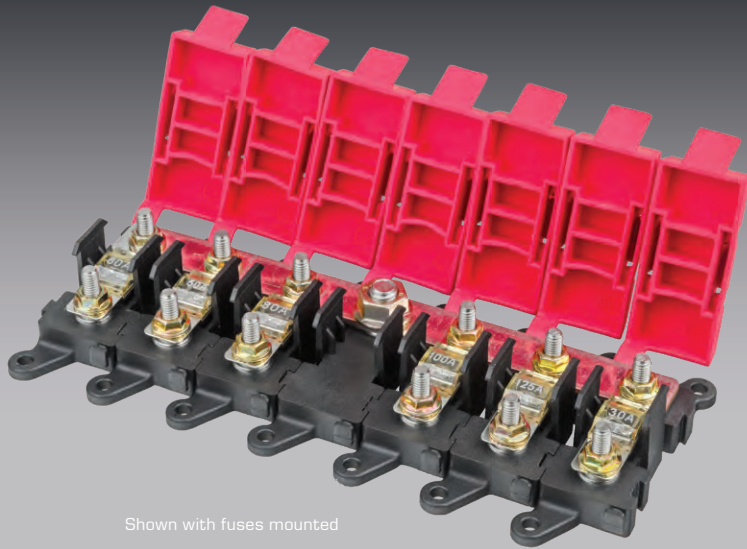
Part No.	Fuse Type	Maximum Voltage	Post	Current Rating @ 12V
FH30	T-Class	48	3/8"	Up to 400A
FH31	ANL	48	5/16"	Up to 300A
FH32 Blue Dot	ANL (Ceramic only)	32	3/8"	Up to 750A
FH33	AMG	32	5/16"	Up to 250A

Not Bussmann products.



Circuit Protection

Modular AMI Fuse Holder



Shown with fuses mounted

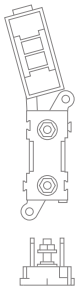
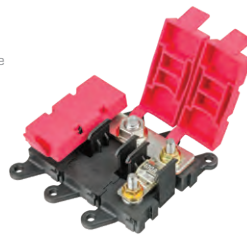
Made in North America

- Modular componentry – each Fuse/Input Module easily and securely clips into the next.
- Flexible to user requirements.
- Accepts industry standard bolt-in AMI fuses.
- Up to 6 Fuse Modules can be busbed.
- Independent covers on each module.
- Can be used as a single fuse holder.
- Ideal for mining, construction, agriculture, bus, truck, marine and specialty vehicle applications.
- Made in North America.

Fuse Type :	AMI
Housing :	Thermoplastic
Cover :	EPDM/Santoprene
Studs :	Input Module Fuse Module
	M8 Stainless Steel M5 Stainless Steel
Max. Current Rating :	400A Continuous
Operating Temperature :	-40°C to 85°C

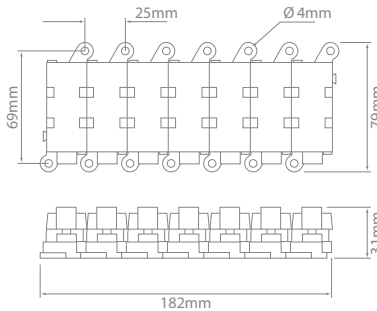
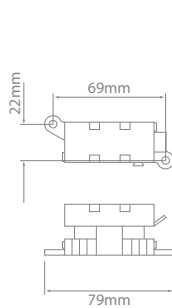


Shown with fuse



Fuse Module

Input Module



Custom Build Your Fuse Holder

For busbed configurations, a maximum of 6 Fuse Modules, 1 Input Module & 1 Busbar is required, (7 modules in total).

E.g. for a busbed 5 fuse configuration the following is required:

- 5 x Fuse Modules (LMI-F-M)
- 1 x Input Module (LMI-I-M)
- 1 x Busbar (B109-7046-6)

Suits AMI Fuses



Modular AMI Fuse Holder

Part No.	Description
LMI-F-M	Fuse Module
LMI-I-M	Input Module

B109-7046-2	Busbar – Suiting 1 fuse and 1 input module
B109-7046-3	Busbar – Suiting 2 fuses and 1 input module
B109-7046-4	Busbar – Suiting 3 fuses and 1 input module
B109-7046-5	Busbar – Suiting 4 fuses and 1 input module
B109-7046-6	Busbar – Suiting 5 fuses and 1 input module
B109-7046-7	Busbar – Suiting 6 fuses and 1 input module

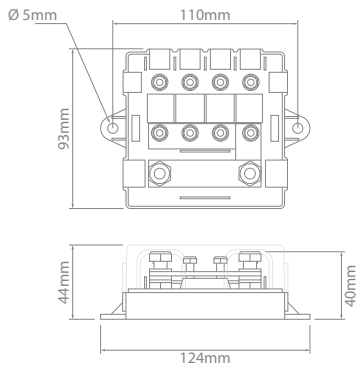


NEW

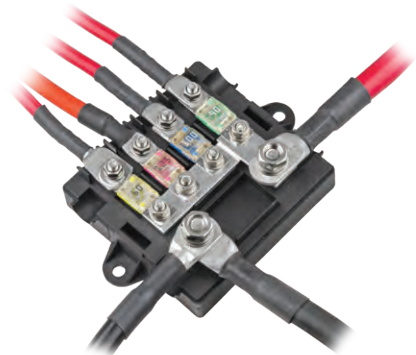
- Common feed powers all fuse positions.
- FH50 & FH51 mount directly to vehicle battery.
- RD-159 features removable busbars.
- Hinged/removable covers for easy access to fuses.
- FH50 includes battery charging terminal.
- Made in Europe.



Made in Europe



Tin plated copper busbars.
Stainless steel studs, nuts, washers

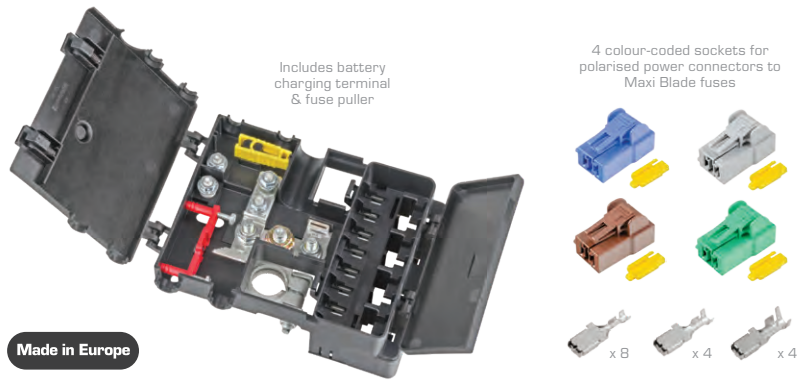


Power Distribution Units – Surface Mount **NEW**

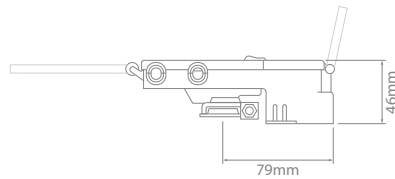
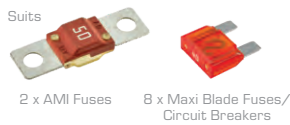
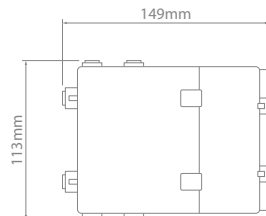
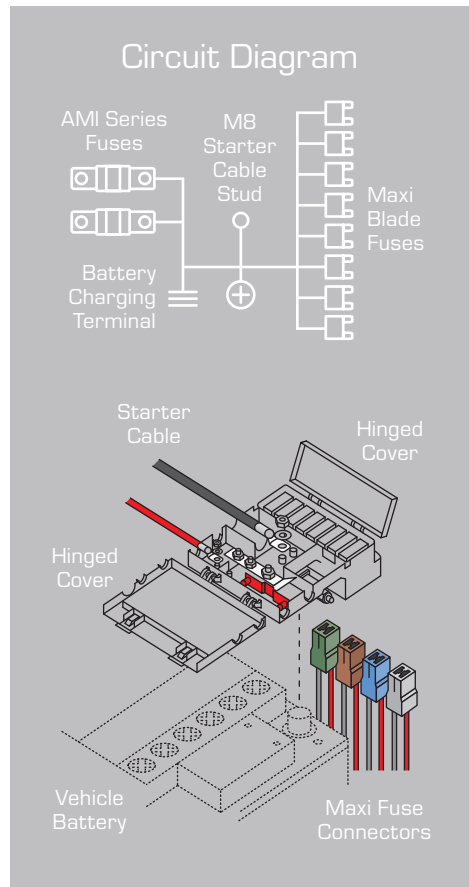
Part No. **RD-159** Seats **1 x AMG & 4 x AMI Series Bolt-in Fuses**



Circuit Protection



Made in Europe



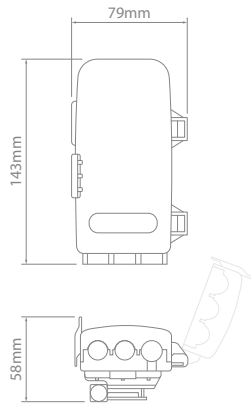
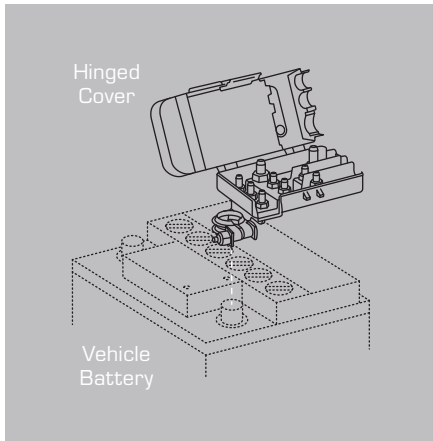
Power Distribution Units – Battery Mount – 10 Fuse NEW

Part No.	Seats	Kit Contains:
FH50	2 x AMI Series Bolt-in Fuses 8 x Maxi Blade Fuses	1 x Power Distribution Unit (MT001) 8 x Receptacle (MT401) 4 x Receptacle (MT402) 4 x Receptacle (MT403) 1 x Connector Blue (MT201) 1 x Connector Grey (MT202) 1 x Connector Green (MT203) 1 x Connector Brown (MT204)

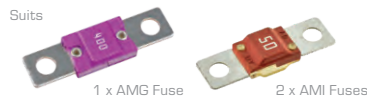


Accessories – FH50 NEW

Part No.	Description	Pack Quantity
MT201/10	Connector Blue . Inc. Secondary Lock	10
MT202/10	Connector Grey . Inc. Secondary Lock	10
MT203/10	Connector Brown . Inc. Secondary Lock	10
MT204/10	Connector Green . Inc. Secondary Lock	10
MT701/10	Secondary Lock	10
MT401/20	Receptacle – 8mm. 1.5–2.5mm ²	20
MT402/20	Receptacle – 8mm. 4–6mm ²	20
MT403/20	Receptacle – 8mm. 8–10mm ²	20



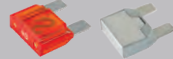
Made in Europe



Power Distribution Units – Battery Mount – 3 Fuse NEW

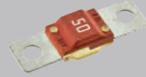
Part No. **FH51** Seats **2 x AMI Fuses, 1 x AMG Series Bolt-in Fuses**

Maxi Blade Fuses/
Circuit Breakers



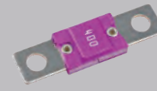
Page 90 & 93

AMI Fuses



Page 107

AMG Fuses



Page 107



Circuit Protection

Marine Rated Battery Fuses

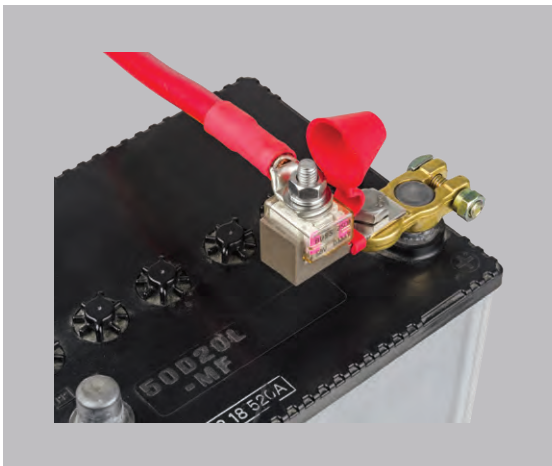
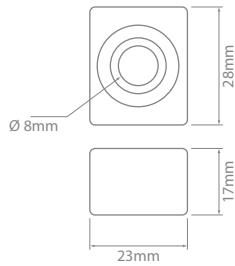
NEW



IP66 Made in North America

- Designed for the most demanding environments providing high current protection.
- Suitable for main and auxiliary circuit protection such as alternator outputs, starter motor inputs and accessory circuits.
- Breaking capacities meet the requirements of conventional vehicle batteries, and 12V, 24V, 42V electrical networks.
- Suitable for automotive and marine applications.
- Colour-coded to current rating.
- Made in North America.

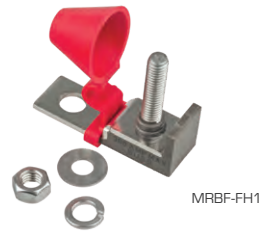
Max. Voltage Rating : 58V
 Interrupt Rating : 10,000A @ 14V
 Body : Ceramic
 Housing & Cover : UL-Rated 94VO Thermoplastic
 Ingress Protection : IP66
 Approvals : ISO 8820-6



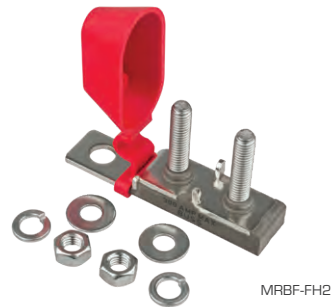
Marine Rated Battery Fuses **NEW**

40A (Lt. Blue) MRBF-040	50A (Red) MRBF-050	60A (Gold) MRBF-060	80A (Lime) MRBF-080	100A (Yellow) MRBF-100	125A (Green) MRBF-125
150A (Orange) MRBF-150	175A (White) MRBF-175	200A (Blue) MRBF-200	225A (Tan) MRBF-225	250A (Pink) MRBF-250	

Circuit Protection



Made in North America



Marine Rated Battery Fuses – Fuse Holder Kits NEW

Part No.	Description	Mounting Hole Ø (mm)	Kit Contains:
MRBF-FH1	Single	10.3	1 x Single M8 stud (MRBF-M8-1) 1 x Red cover (MRBF-C1) 1 x M8 hex nut 1 x Washer 1 x M8 spring washer
MRBF-FH2	Double	10.3	1 x Double M8 stud (MRBF-M8-2) 1 x Red cover (MRBF-C2) 2 x M8 hex nuts 2 x Washers 2 x M8 spring washers



Circuit Protection

Plug-in Diodes



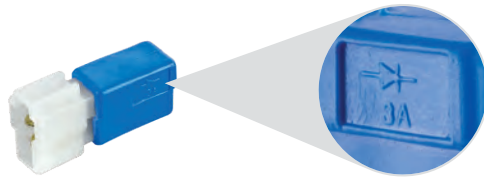
PID6A



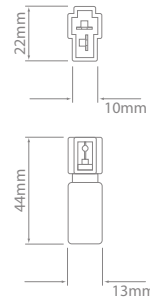
PID42

- Plug & play connection.
- Multiple configurations.
- Industry standard connector.
- Pin connection diagrams are clearly labeled on housing.
- Broad operating temperature.

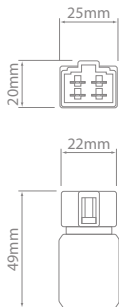
Housing : Thermoplastic Polymer
Connector : Polyamide
Terminal Size : 6.3mm
Max. Average Rectified Current : 3A
Operating Temperature : -65°C to 150°C



PID6A



PID41



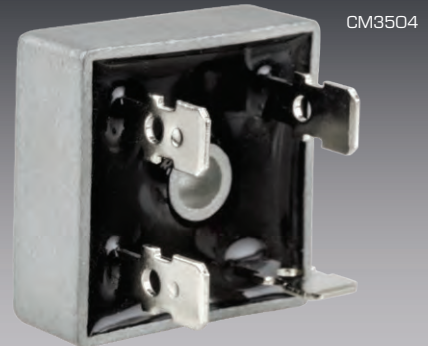
PID42



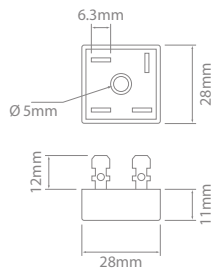
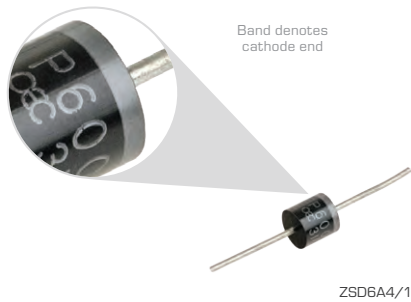
Plug-in Diodes

Part No.	Pin Connection	Max. Reverse Voltage	Mating Connectors
PID6A		600	QK2BSL/10
PID41		400	QK4BSL/10
PID42		400	QK4BSL/10

- High current capability.
- Low leakage current.
- Flame retardant epoxy.
- High surge capability.
- CM3504 features epoxy filled metal housing.



Housing : CM3504 Polymer Metal, electrically isolated



Diodes

Part No.	Nominal Zener Voltage	Max. Reverse Voltage	Max. Forward Current (A)	Max. RMS Input Voltage	Max. DC Blocking Voltage	Pack Qty
ZSD6A4/10*	120	—	6	200	—	10
IN4004/10	—	400	1	280	400	10
IN5408/10	—	1000	3	700	1000	10
CM3504	—	400	35	280	400	1

* Zener diode.

