POWER DISTRIBUTION UNIT (MiniFLEC™)

Littelfuse

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

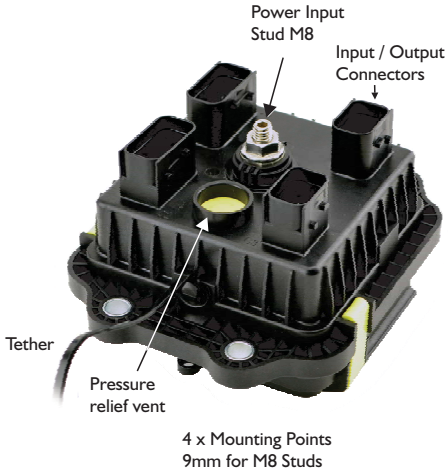
- Module includes cover. A mini fuse / mini device puller is also fitted in the cover.
- 6 locations for spare fuses (4 x Mini / 2 x Mcase Slotted fuses).
- Cover is tethered to the module to prevent misplacement.
- Yellow AssureLatch system for secure locking of cover to the module.
- Module is rated to 150A max load.
- All relays share a common ground circuit for relay coil.
- Vent plug located at the base of the unit.



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 4 Pin

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: Includes Mini fuse puller and slots for 4 x spare Mini fuses.
Base: Includes vent for pressure equalization and slots for 2 x spare Mcase slotted fuses.
Tether: Included.
Ingress Protection Rating: IEC 529, IP67, IP69K
Cover Gasket: Internal, silicone.
Mounting: Panel Mount (Rear fed connectors)..
Vibration: ISO 16750-4
Temperature Rating: -40 °C to +85 °C.

RoHS REACH Pb



ACCESSORIES: TYCO HDSCS CONNECTORS

Part Number	Connector	Poles	Terminals
1-1670894-1	C1	8	AMP MCP 2.8 (8pcs)
2-1564514-1	C2	10	AMP MCP 1.5k (6pcs) & AMP MCP 2.8 (4pcs)
1-1418437-1	C3	6	AMP MCP 2.8 (6pcs)
1-1564542-1	C4	2	AMP MCP 6.3/4.8k (2pcs)



ACCESSORIES: AMP MCP 1.5k

TERMINALS: TANGED
Female
Copper Nickel / Tin plated



CABLE SEALS:
Silicone



CAVITY PLUG:
Silicone



Part Number	Wire (AWG)	Wire (mm²)
1564325-1	-	0.2 - 0.35mm²
1241381-1	#20 - #16	0.5 - 1.0mm²
1418885-1	#16 - #15	1.0 - 1.5mm²

Part Number	Cable Dia.(mm)	Colour
964971-1	1.2 - 1.6 dia.	Red
963530-1	1.4 - 1.9 dia.	Gray
964972-1	1.9 - 2.4 dia.	Yellow

Cavity Plugs	Colour
963531-1	White

Note: AMP MCP 1.5k terminals are rated to 20A max. at 20 °C ambient temperature.

ACCESSORIES: AMP MCP 2.8

TERMINALS: TANGED
Female
Copper Nickel / Tin plated



CABLE SEALS:
Silicone



CAVITY PLUG:
Silicone



Part Number	Wire (AWG)	Wire (mm²)
1-968875-1	#20 - #16	0.5 - 1.0mm²
1-968876-1	#16 - #14	1.0 - 2.5mm²
1-968877-1	#12	

Part Number	Cable Dia.(mm)	Colour
828904-1	1.2 - 2.1 dia.	Blue
828905-1	2.2 - 3.0 dia.	White

Cavity Plugs	Colour
828922-1	Clear

Note: AMP MCP 2.8 terminals are rated to 40A max. at 20 °C ambient temperature.



ACCESSORIES: AMP MCP 6.3/4.8k

TERMINALS: TANGED
Female
Copper Nickel / Tin plated



CABLE SEALS:
Silicone



CAVITY PLUG:
Silicone



Part Number	Wire (AWG)	Wire (mm²)
1241413-1	#20 - #16	0.5 - 1.0mm²
1241415-1	#16 - #13	1.0 - 2.5mm²
1241417-1	#13 - #12	2.5 - 4.0mm²
1241419-4	#12 - #10	4.0 - 6.0mm²

Part Number	Cable Dia.(mm)	Colour
1394511-1	2.0 - 2.7	White
1823111-1	2.7 - 3.0	Red-Brown
1394512-1	3.4 - 3.7	Blue
1719043-1	4.0 - 4.5	Green

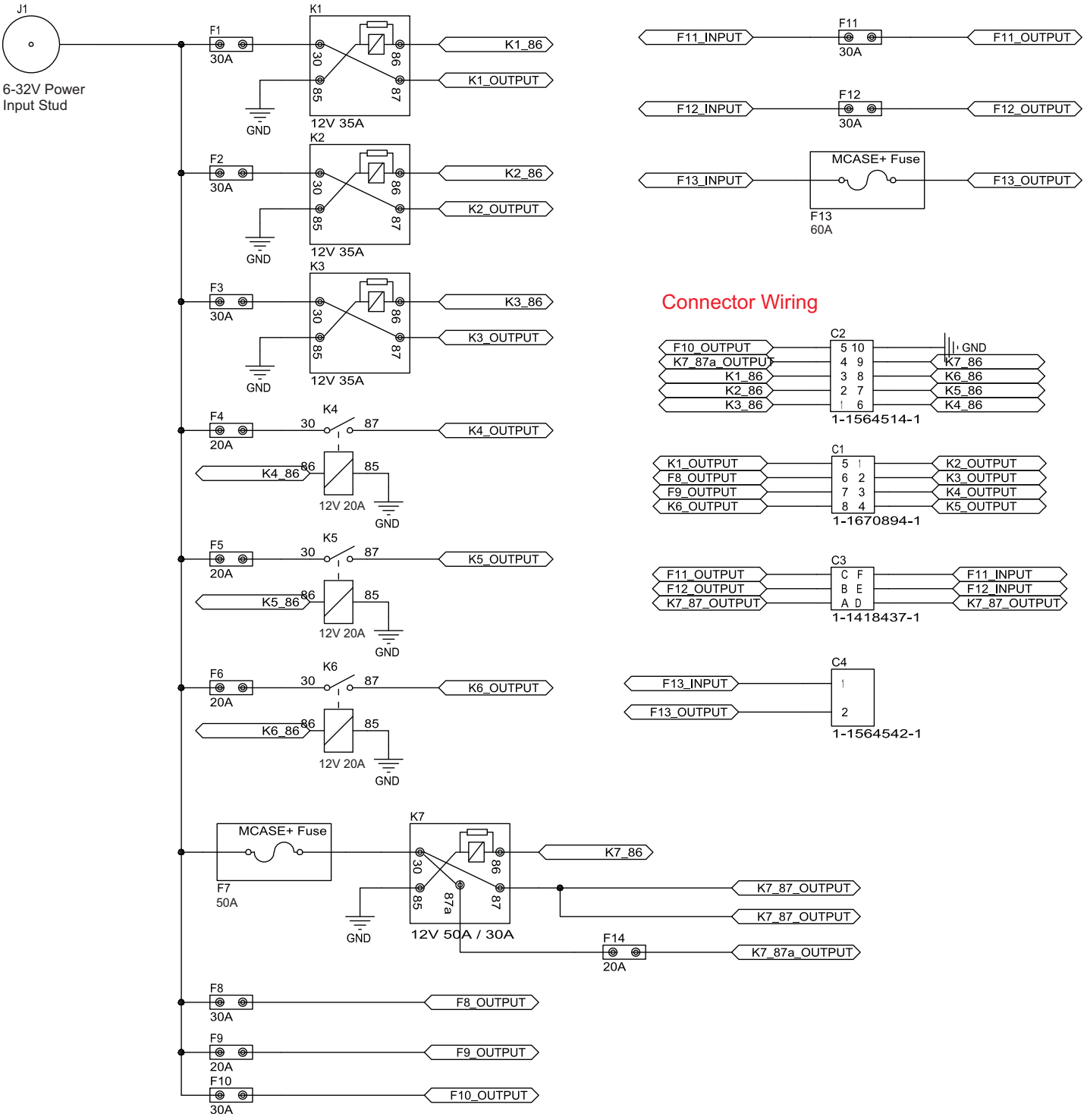
Cavity Plugs	Colour
967652-1	Clear

Note: AMP MCP 6.3/4.8k terminals are rated to 40A max. at 20 °C ambient temperature.

PROLEC

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

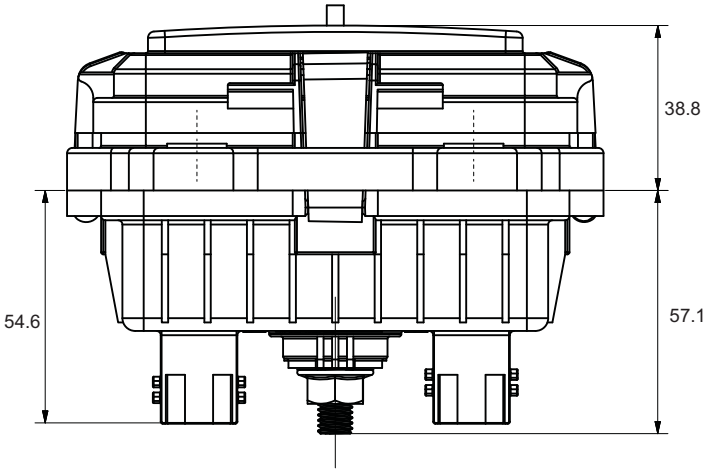
Internal Circuit Diagram

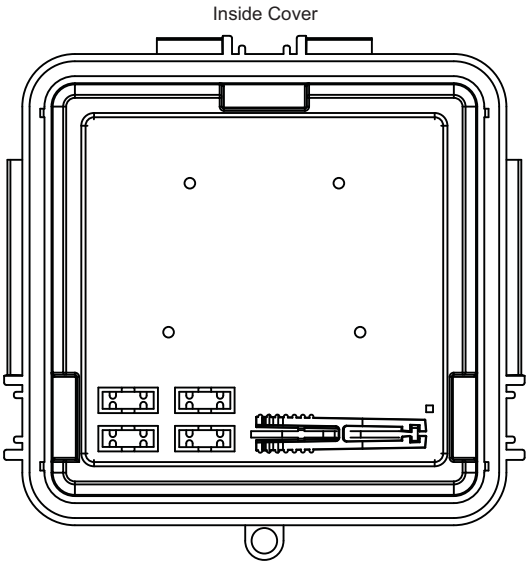


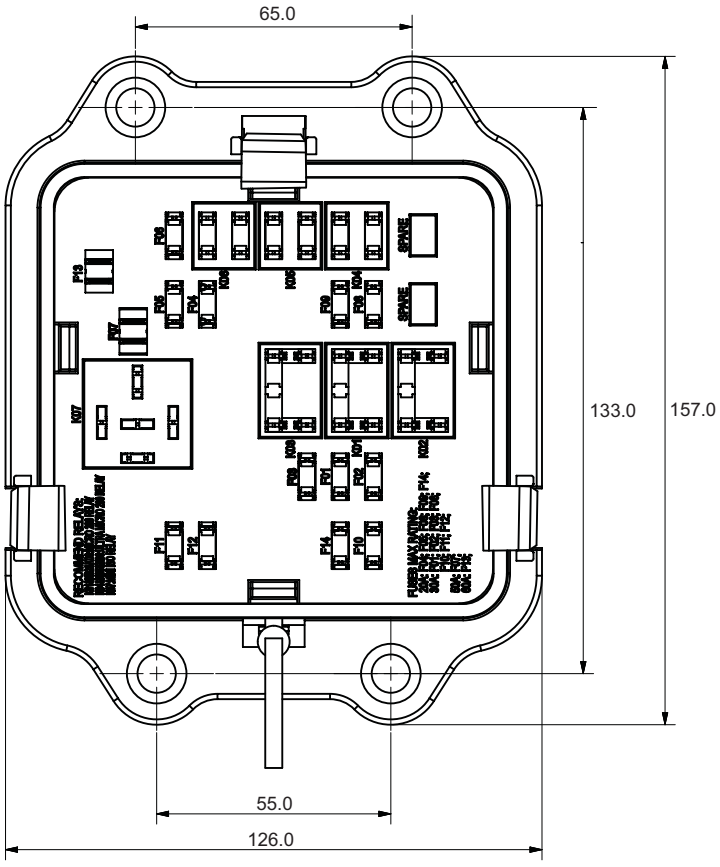
Connector Wiring

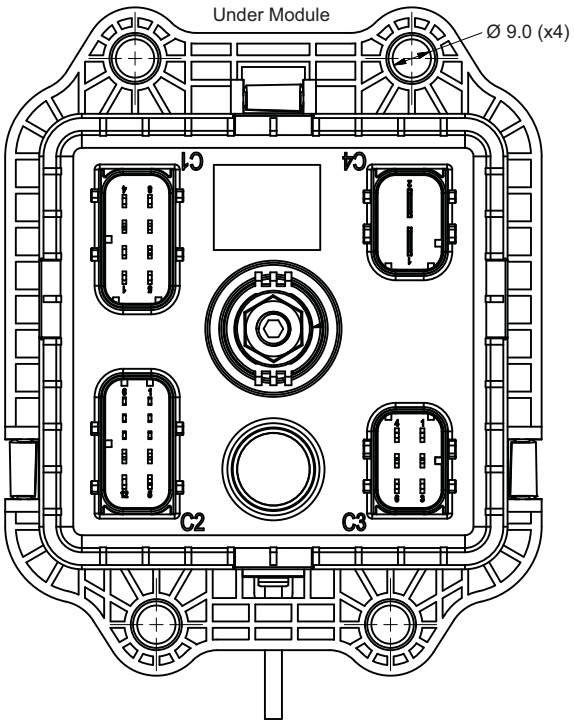
Notes:
1. Maximum fuse value is shown for each fuse eg. 20A means maximum fuse that can be used is 20A.
2. All relays share a common ground circuit for the relay coil.

Dimensions









Dimensions in MM

Mounting Diagram

