

# POWER DIST. MODULE SEALED - 12 POSITION



**IP69K IP67**  
**58V**

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 base, clear 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 **Temperature Rating:** -40°C to +105°C.

**Maximum Continuous Current:** 135A

**Maximum Fuse Rating:** 30A per circuit.

**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<sup>2</sup>).

**Ingress Protection Rating:** IP67 / IP69K

when cover, cable seals & cavity plugs are installed.

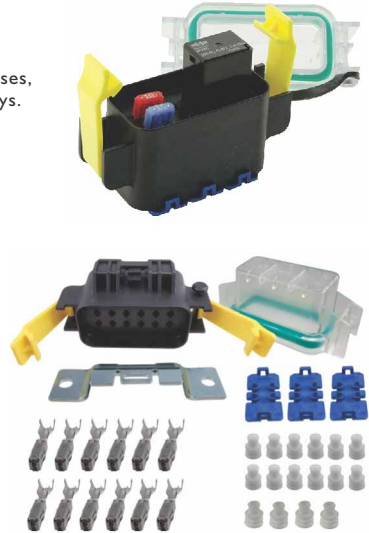
**Cable Seals:** Please check the overall diameter of your cable before ordering cable seals. Silicone material UL94-V0.

**Terminals:** Tyco AMP MCP 2.8, Barbed Female, Copper 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.



Part Number	Kit Contents:
PDMKIT33I	Base, Clear Cover, Seal, Straight Bracket, 3 x TPA's, 12x 2.5mm <sup>2</sup> Terminals, 12x Cable Seals & 4x Cavity Plugs.

Part Number	Description
PDM33003ZXM	Base, Clear Cover, Seal, Straight Bracket, 3 x TPA's.
1-968896-1	Terminal Female (#22 - 20AWG), 0.35 - 0.50mm <sup>2</sup>
1-968875-1	Terminal Female (#20 - 16AWG), 0.5 - 1.0mm <sup>2</sup>
1-968876-1	Terminal Female (#16 - 14AWG), 1.0 - 2.5mm <sup>2</sup>
828904-1	Cable Seal Blue, 1.2 - 2.1mm Cable Diameter.
828905-1	Cable Seal White, 2.2 - 3.0mm Cable Diameter.
828922-1	Cavity Plug Clear, 5.6mm Cavity inside Diameter.
901-327	Foam Relay Retention Insert (optional).
868-068	Angled Bracket 30 Degree (optional).
890009470	Cover Tether (optional).

**PDM Module & Terminal Kit**  
**PDMKIT33I**



**Female Terminals**  
With Locking Barbs

POWER DIST.

## PDM Module Kit (page 2)

**PDMKIT33I**  
Loose  
Terminals  
Kit



## Optional Accessories (pages 2 - 4)

Add these parts to complete your installation.



**Mini Fuses, Mini Resistors, Mini Diodes, Mini Shunts, Mini Blade Circuit Breakers & ISO 280 Relays.**

## 12 Position Module Kit with Terminals

Part Number  
PDMKIT331

### Kit Contents:

- PDM33003ZXM block with cover
- 1 x straight bracket
- 3 x secondary locks for terminal TPA
- 12 x terminals (1.5 - 2.5mm<sup>2</sup>).
- 12 x cable seals (2.2 - 3.0mm dia. cable).
- 4 x cavity plugs
- 1 x black cover tether



## TERMINAL TOOLS

Prolec

### Terminal Crimp Tool

Part Number Description  
CT-P78 Delphi Metri-Pack 280 &  
Tyco AMP MCP 2.8 terminals.



Need help using this crimp tool?  
Scan the QR code to view instructions.

Scan this  
QR Code  
for more  
information



QR Code: 8001



Search these part numbers on our website for datasheets.

## TERMINALS, CABLE SEALS & CAVITY PLUG

Prolec

Part Number	Description
1-968875-1	Terminal Female (#20 - #16AWG), 0.5 - 1.0mm <sup>2</sup>
1-968876-1	Terminal Female (#16 - #14AWG), 1.0 - 2.5mm <sup>2</sup>
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.

### AMP MCP 2.8

#### TERMINALS:

Female  
Copper Nickel / Tin plated



#### CABLE SEALS:

Silicone



#### CAVITY PLUG:

Silicone



# PLUG-IN COMPONENTS

## Minifuse 32VDC

Part Number	Ampere Rating
MIN002	2A
MIN003	3A
MIN004	4A
MIN005	5A
MIN07.5	7.5A
MIN010	10A
MIN015	15A
MIN020	20A
MIN025	25A
MIN030	30A



## Minifuse 32VDC (Indicating)

Part Number	Ampere Rating
MIND003-32V	3A
MIND005-32V	5A
MIND07.5-32V	7.5A
MIND010-32V	10A
MIND015-32V	15A
MIND020-32V	20A
MIND025-32V	25A
MIND030-32V	30A



## Minifuse 32VDC Assortment

Part Number	Description
MINI-KIT2	35 Piece fuse kit assortment.

This fuse kit contains;

- MIN005 x 5 pcs
- MIN07.5 x 5 pcs
- MIN010 x 5 pcs
- MIN015 x 5 pcs
- MIN020 x 5 pcs
- MIN025 x 5 pcs
- MIN030 x 5 pcs



## Minifuse 58VDC

Part Number	Ampere Rating
MIN002-58V	2A
MIN003-58V	3A
MIN004-58V	4A
MIN005-58V	5A
MIN07.5-58V	7.5A
MIN010-58V	10A
MIN015-58V	15A
MIN020-58V	20A
MIN025-58V	25A
MIN030-58V	30A



## Circuit Breaker (Automatic Reset)

14VDC Automatic TI		Ampere Rating
Part Number	Rating	
21105-00	5A	
21175-00	7.5A	
21110-00	10A	
21115-00	15A	
21120-00	20A	
21125-00	25A	
21130-00	30A	



## Circuit Breaker (Modified Reset)

14VDC Modified TII		Ampere Rating
Part Number	Rating	
21205-00	5A	
21275-00	7.5A	
21210-00	10A	
21215-00	15A	
21220-00	20A	
21225-00	25A	
21230-00	30A	



## Circuit Breaker (Manual Reset)

28VDC Manual TIII		Ampere Rating
Part Number	Rating	
23305-00	5A	
23375-00	7.5A	
23310-00	10A	
23315-00	15A	
23320-00	20A	
23325-00	25A	
23330-00	30A	



## Mini Diodes

Part Number	Description
02400104P	Diode
22903-6	Diode
22903-6V	Diode



## Mini Devices

Part Number	Product
22901-1.5	Transorb
22902-68	Resistor



## MCase Unslotted Fuse Adapter

Part Number	Description
875-584	MCase to Mini Fuse Adapter



This fuse adapter allows you to use an MCase fuse in a slot designed for a Mini fuse (or other Mini blade component).

# PLUG-IN COMPONENTS - cont'd

## Ultra Micro Relays (ISO 280)

Part Number	Description
3031AHCR112	12V Normally Open 4 pin (SPST)
3031AHCR124	24V Normally Open 4 pin (SPST)



Search these part numbers on our website for datasheets.

## Micro Relays (ISO 280)

Part Number	Description
3011ACR112	12V Normally Open 4 pin (SPST)
3011ACR124	24V Normally Open 4 pin (SPST)
3011CCR112	12V Change Over 5 pin (SPDT)
3011CCR124	24V Change Over 5 pin (SPDT)

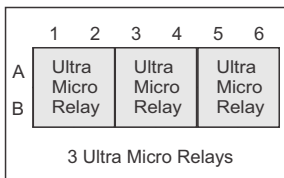
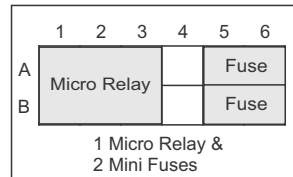
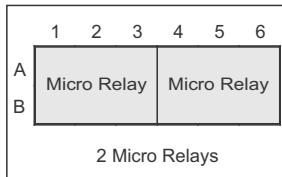
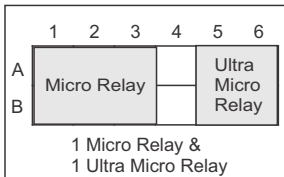
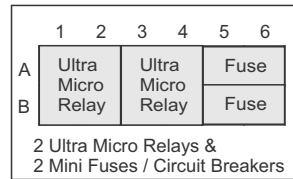
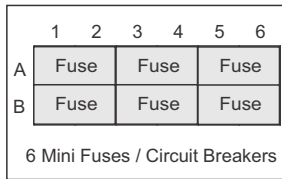
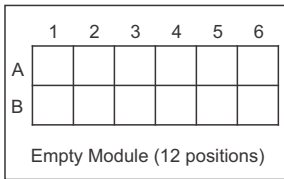


## MODULE SPECIFICATIONS

Littelfuse  
HWB12 Series

### Component Layout Samples

This unit can accommodate Mini fuses, diodes, resistors, transorbs, mini circuit breakers, ultra micro & micro relays.



Empty position

#### Component information:

1. Fuses, Breakers, diodes etc. use 2 positions (1x2).
2. Ultra Micro Relays used 4 positions (2x2).
3. Micro Relays use 6 positions (3x2).
4. Mini relays do NOT fit into this unit.
5. Flashers do NOT fit into this unit.

**Product Dimensions**

