

# POWER DIST. MODULE SEALED - 12 POSITION



**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<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.

**Terminals:** Tyco AMP MCP 2.8, Female Copper Nickel / Tin Plated.

**Terminal Tools:** Terminal crimping & removal tools refer p.2.

**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, 12 x 2.5mm <sup>2</sup> Terminals, 12 x Cable Seals & 4 x Cavity Plugs. <b>NEW</b> |

| 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 <sup>2</sup> |
| 1-968876-1  | Terminal Female (#16 - #14AWG), 1.5 - 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.     |
| 901-327     | Foam Relay Retention Insert (optional).                  |
| 868-068     | Angled Bracket 30 Degree (optional).                     |
| 890009470   | Cover Tether (optional).                                 |



POWER DIST.

## PDM Module Kit (page 2)

### PDMKIT331

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), 1.5 - 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

| Part Number | Rating | Ampere |
|-------------|--------|--------|
| 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

| Part Number | Rating | Ampere |
|-------------|--------|--------|
| 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

| Part Number | Rating | Ampere |
|-------------|--------|--------|
| 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 |



# 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)   |

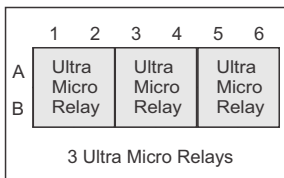
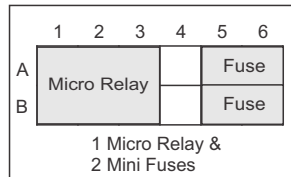
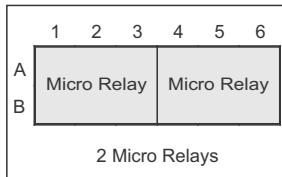
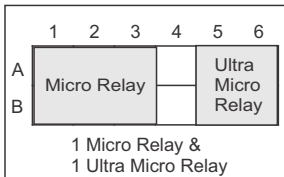
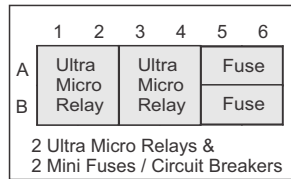
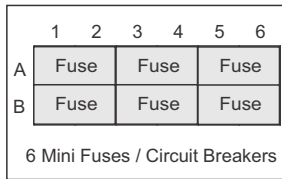
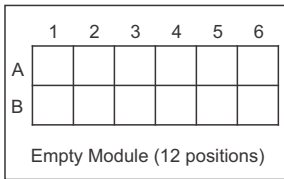


## MODULE SPECIFICATIONS

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

