

# PDM SEALED MODULE - 60 POSITION



**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<sup>2</sup>).
- 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 page 185-186. **Notes:** Fuses and relays are not included.

Part Number	Kit Contents
PDMKIT711	Module, Terminals (60 x 12129493), Cable Seals (60 x 15324980) & Plugs (10 x 12010300).
PDMKIT712	Module, Pre-terminated Cables 2.0mm <sup>2</sup> x 300mm (30 x Red & 30 x Blue), Pre-terminated Jumper Cables Red 2.0mm <sup>2</sup> x 90mm (5 x Red), Splice Connectors (60pcs) & Cavity Plugs (10 x 12010300).

Part Number	Description
PDM71003ZXM	PDM Module Base, Cover and 6 x TPA's. No accessories.



**NEW**

Extended cover clips. Finger release.

## PDM Module Kits - see page 2.

### PDMKIT711

Loose  
Terminals  
Kit



### PDMKIT712

Terminated  
Cables  
Kit



## Optional Accessories - see pages 2 - 4.

Add these parts to complete your installation.



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



**ISO 280 Ultra Micro Relays,  
ISO 280 Micro Relays,  
ISO 280 Mini Relays & Flashers.**



**Pre-Terminated Cables,  
Terminals, Cable Seals,  
Cavity Plugs, etc.**

## 60 Position Module with Terminals & Cable Seals

Part Number  
PDMKIT711

Kit Contents:

- PDM71003ZXM block with cover & secondary locks
- 60 x terminals (2.0 - 3.0mm<sup>2</sup>).
- 60 x cable seals (2.81 - 3.49mm dia. cable).
- 10 x cavity plugs



## 60 Position Module with Pre-Terminated Cables

Part Number  
PDMKIT712

Kit Contents:

- PDM71003ZXM block with cover & secondary locks
- 60 x pre-terminated 2mm<sup>2</sup> cables with seals, 300mm length
- 3 x jumper cables 2mm<sup>2</sup> cables with seals, 90mm length
- 10 x cavity plugs
- 60 x butt connectors



# TERMINAL TOOLS



## 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

## Terminal Removal Tool

Part Number    Description  
I2094429            Extracts Delphi Metri-Pack  
280 terminals & other types.



Search these part numbers on our website for datasheets.

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



## 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



## Mcase Unslotted 32VDC

2.8mm Term.

Part Number	Ampere Rating
MJC015	15A
MJC020	20A
MJC025	25A
MJC030	30A
MJC040	40A



## Circuit Breaker 14VDC (Auto Reset)

Part Number	Ampere 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 14VDC (Modified Reset)

Part Number	Ampere 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 28VDC (Manual Reset)

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



## Mini Devices

Part Number	Description
02400104P	Diode
22903-6	Diode
22903-6V	Diode
22901-1.5	Transorb
22902-68	Resistor



**NEW**

## Mcase Fuse Adaptor

Converts Mcase to Minifuse  
(# 875-584)



Search these part numbers on our website for datasheets.

# ISO 280 RELAYS & FLASHERS



## 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)



## Mini Relays (ISO 280)

Part Number	Description
898H1AHCR112	12V Normally Open 4 pin (SPST)
898H1HCR112	12V Change Over 5 pin (SPDT)

898H1AHCR124	24V Normally Open 4 pin (SPST)
898H1HCR124	24V Change Over 5 pin (SPDT)



## Flasher Relays (ISO 280)

Part Number	Terminals	Nbr. Bulbs / Type
NO-762-LED	2.8mm x 4	2 to 6 / LED
NO.761	2.8mm x 3	2 to 4 / Standard
NO.762	2.8mm x 4	3 to 6 / Standard



# TERMINALS, CABLE SEALS & CAVITY PLUG

**DELPHI**

## Delphi Metri-Pack 280 Accessories

### TERMINALS: TANGED

Female sealed - Tin Brass / Tin plated



Part Number	Wire (AWG)	Wire (mm <sup>2</sup> )
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

# PRE-ASSEMBLED CABLES & BUTT SPLICE CONNECTOR

**PROLEC**

## Packard 280 Metri-Pack Female Sealed Tanged Terminal

Part Number	Description	Colour	Wire Size (mm <sup>2</sup> )	Wire Length (mm)	Wire Qty
CAB2.0X300TS1T	Output Cable	Red	1.84	305	10
CAB2.0X300TS2T	Output Cable	Blue	1.84	305	10
CAB2.0X85TS1TJ	Jumper Cable	Red	1.84	90	1
I9164-0044	Butt Connector	Blue	1.0 to 2.0	N/A	10



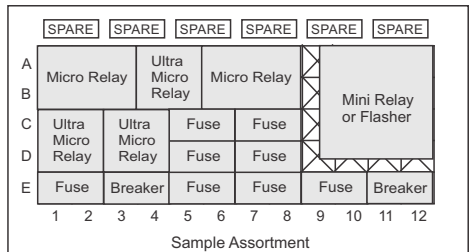
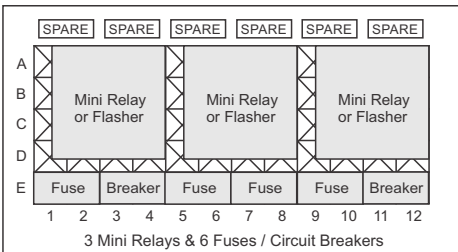
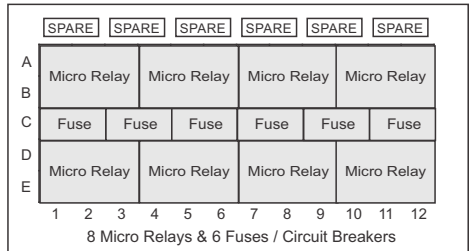
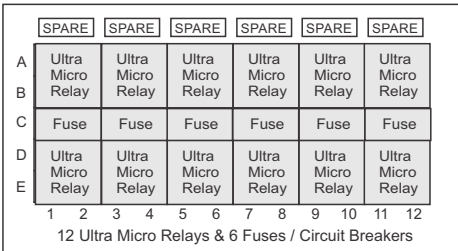
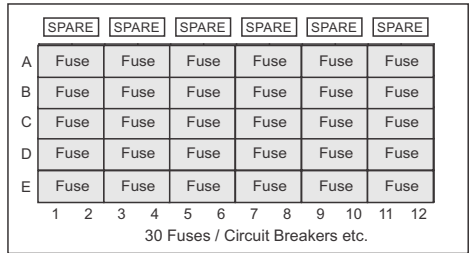
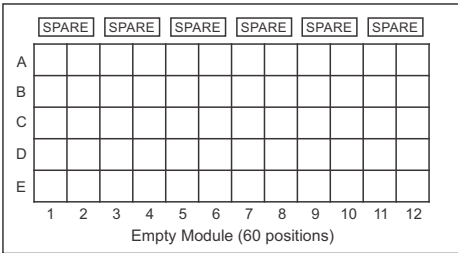
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**PROLEC**

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## Component Layout Samples



### 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).

### Mini Relays & Flasher Relays:

1. Cannot be fitted directly beside each other.
2. Maximum of 3 can be fitted.
3. Overlap 16 positions on the block.

- Unusable position
- Empty position

