

Whitecroft
lighting



CPDM

Lighting installation and management

CPDM

MOTIVATION

The Command Power Distribution Module 'CPDM' when combined with Fit and Forget options on our luminaires, is designed to both cut installation times and reduce risk for the electrical contractor. By accelerating the programme, the client is able to occupy the space sooner and interest payments on the total investment in the entire project can be reduced. It further provides a cost effective method of providing power, sensor control and digital or analogue dimming.

APPLICATION

CPDMs' always offer important installation advantages in commercial, retail and industrial environments but these are magnified when:-

- The project is large
- There are major quantities of luminaires of certain types
- These luminaires are consistently wired in the same configuration

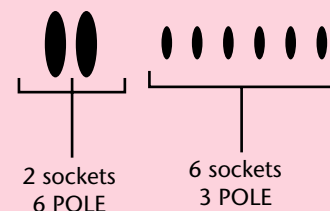
SPECIFICATION

Common features

- Wieland type GST 18 sockets
- 1st and 2nd fix capability
- 1-10 volt or digital regulation dimming
- Types 1 and 2 are upgradable to next type or full management systems.
- For specification features specific to each product see back page.

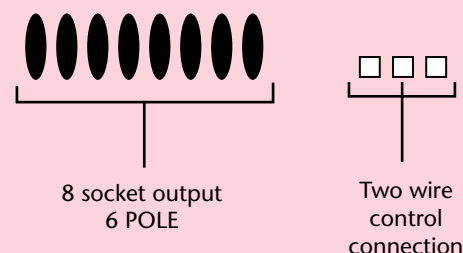
CPDM 7677 Type 0

- 8 socket outputs



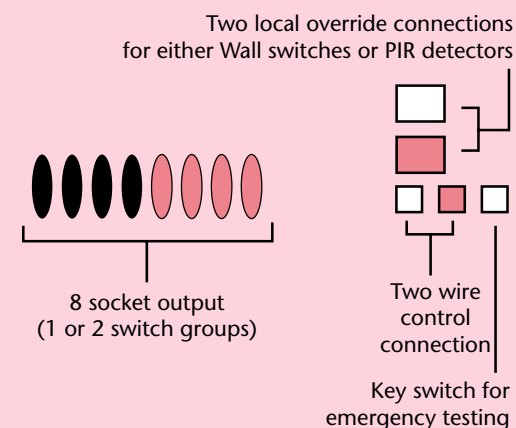
CPDM 7673 Type 1

- 8 socket outputs
- 2 wire control inputs
- Dedicated maintained line supply for emergency lighting



CPDM 7674 Type 2

- 8 socket outputs
- PIR/Photocell control
- Wall switch control
- PIR/Lux dimming control
- Emergency light testing
- Group control
Two groups of 4 socket outputs.
- Power status LED
- Cross phase control
- Dedicated maintained line supply for emergency lighting



TYPICAL CPDM APPLICATION DATA

Local override group switching

- All CPDM local override switches are operated at 24 volt SELV.
- Switch Groups on multiple CPDMs' are grouped regardless of supply phase to create different switching patterns.
- Suitable for use with 24 volt – passive infra-red sensor and dimmer sensor, simple volt free switches*, timers*, etc (*requires plug Part Code CPDM 0319).
- CPDM Sensors are supplied complete with interconnecting cable and plug(s) for ease of installation.

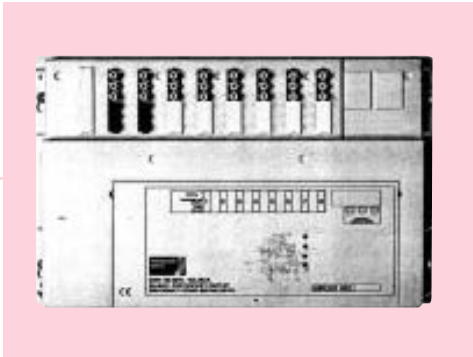
Emergency testing

- Connected emergency luminaires can be tested via the CPDM 24 volt SELV emergency test facility.
- Test switch operation (via a volt-free device) disconnects both switch live and un-switched/maintained live supplies to connected emergency luminaires and invokes an emergency test.

Whitecroft Lighting can supply luminaires pre-wired with lead and plug assembly for direct connection to CPDM units (see back page for details)



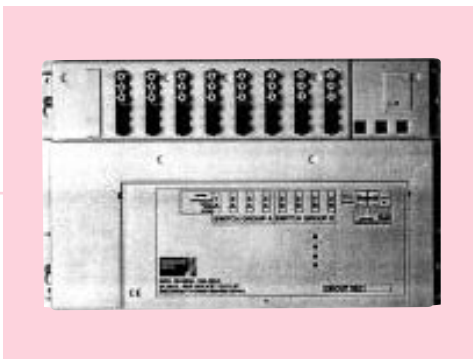
Luminaire lead with Wieland type 3 pin plug



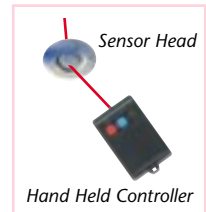
The 'Type 0' module has 8 socket outputs, 6-3 way and 2-6 way (for emergencies). It is ideal for use with Command 3 intelligent luminaires or switching as a group of 8.



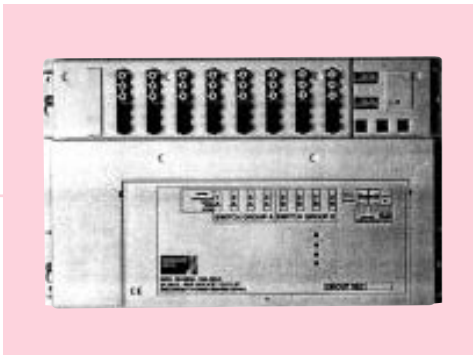
Command 3



The 'Type 1' module is as type 0, but all 8 socket outputs are 6 pin. It is ideal for use with Command 3 intelligent luminaires or wall mounted dimmers via a socket on the front of the module or switching as a group of 8.



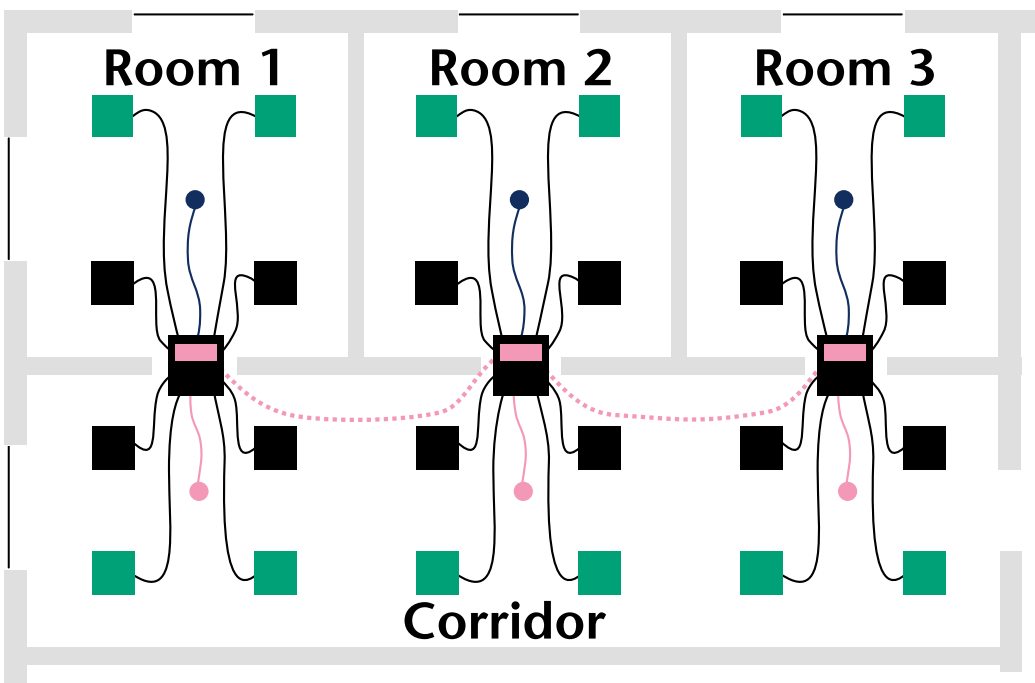
Hand Held Controller



The 'Type 2' module is as type 1, but the 8 outputs are arranged in 2 groups of 4 for switching purposes and has the option of group control via PIR or photocell. A facility for the switch is provided for emergency test.



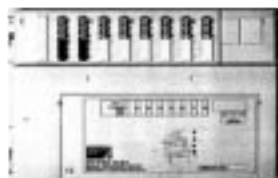
Wall Switch



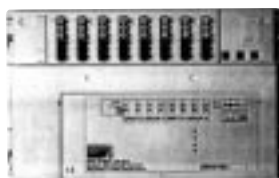
- Luminaire connected To switch group B
- Sensor/switch connected To switch group B
- Interconnecting cable For switch groups B
- Luminaire connected To switch group A
- Sensor/switch connected To switch group A
- Command power distribution module

ORDER CODES

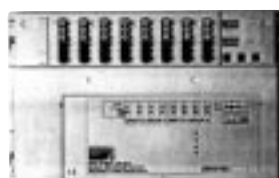
Type 0
Order Code:
CPDM 7677



Type 1
Order Code:
CPDM 7673



Type 2
Product Code:
CPDM 7674



SPECIFICATION

Common Features (ALL TYPES)

Total Load

16A Maximum 200-250 V AC
50/60Hz

Switching Capacity

6 Amps per socket outlet but total load must not exceed 16 Amp for the product.

Construction

Flame Retardant Polycarbonate.

Operating Conditions

0°C to +50°C. Relative humidity
95% non condensing.

Type 0

Output Connections

8 off outputs.
1-2 GST 18 6 POLE
3-8 GST 18 3 POLE

Dimensions

239mm x 385mm x 48mm

Output Connections

8 off Wieland type 6 pin GST socket. Plug (part code CPDM 0317 for GST) required.

Control Input Connections

4 off connectors (1 in wiring tray and 3 on front, all connected in parallel). Weidmuller plug type BL2 (part code CPDM 0318) required. (1 supplied in wiring tray).

Mains Input Connections

4 pole 16 Amp terminal connector in wiring tray (Live, Neutral, Earth, Emergency Maintained Live).

Cable Entry

Wiring tray has facility for 20mm conduit and/or Modular Wiring port connection.

Mounting Details

4 x 6mm holes in wiring tray for screw fixing (up to no. 12 screws) or suspension from struts. 2 off drill points for mounting beneath trunking. After first fix wiring tray the main part of the product plugs into the tray and is secured on 4 keyhole slots and locking screws.

Dimensions

239mm x 385mm x 83mm including first fix wiring tray.

Switching Capacity

8 Amps per switching group.

Output Connections

8 off Wieland type 6 pin GST socket in two switching groups of 4. Plug (part code CPDM 0317 for GST) required.

Control Input Connections

2 off connectors on front. Weidmuller plug type BL2 (part code CPDM 0318) required (2 supplied in wiring tray for switching inputs).

Mains Input Connections

4 pole 16 Amp terminal connector in wiring tray (Live, Neutral, Earth, Emergency Maintained Live).

Local Switch Inputs

2 off inputs, one for switch Group A and one for Group B. 2 off switches or low voltage PIR's (part codes CPDM 7205) can be connected to each of these inputs. Local switches require a connector (part code CPDM 0319) when connected on front.

Emergency Test Input

2 core input. Connector Weidmuller type BL2 (part code CPDM 0318) required. (One supplied in the wiring tray).

Cable Entry

Wiring tray has facility for 20mm conduit and/or Modular Wiring port connection.

Mounting Details

4 x 6mm holes in wiring tray for screw fixing (up to no.12 screws) or suspension from struts. 2 off drill points for mounting beneath trunking. After first fix wiring tray the main part of the product plugs into the tray and is secured on 4 keyhole slots and locking screws.

Dimensions

239mm x 385mm x 83mm including first fix wiring tray.

Lightswitch approved when used with Presence Detectors.

ORDER CODES

LUMINAIRE CONNECTION LEADS

These suffixes would be the last item in the part reference of the associated luminaire

STANDARD

F3L3W9 3M 3 core LSF lead with GST 18/3 plug

F4L3W9 4M 3 core LSF lead with GST 18/3 plug

F5L3W9 5M 3 core LSF lead with GST 18/3 plug

EMERGENCY

F3L4W8 3M 4 core LSF lead with GST 18/6 plug

F4L4W8 4M 4 core LSF lead with GST 18/6 plug

F5L4W8 5M 4 core LSF lead with GST 18/6 plug

OTHER ASSOCIATED ITEMS

CPDM7205 Ceiling flush mounted 24V DC 360° PIR sensor, c/w 2.7M 3 core cable for connecting to local switch input on the front of the CPDM

CPDM0317 6 pin Wieland type connector to connect outputs

CPDM0318 2 pin Wiedmuller connector used for

- Switching CPDM type 2 via ELV switch circuit via 2 pin connection in rear of CPDM
- Emergency testing by connecting to the 2 pin socket in the front or rear of the unit
- Digital or analogue dimming by connecting to the 2 pin Wiedmuller 'control input' on the front of the CPDM

CPDM0319 3 pin Wieland type connector used for

- Switching CPDM type 2/3 via ELV switch circuit using switch and com and connections on front of CPDM



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