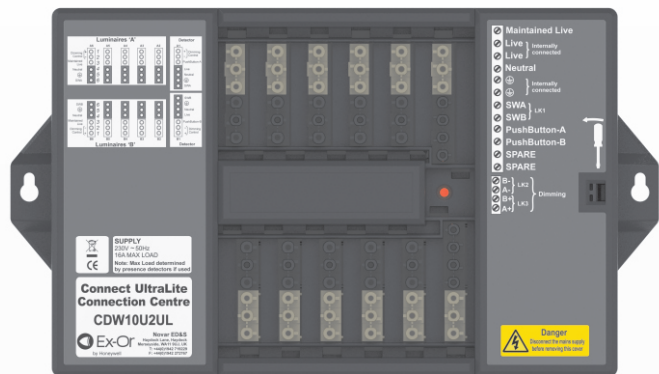


Connect UltraLite Connection Centre CDW10U2UL



Installation Instructions

WARNING 230V a.c.

The connections to this equipment should be made by a suitably qualified person in accordance with the current wiring regulations.

It is strongly recommended to use Ex-Or latching type connectors.

The unit must be earthed.

Connect UltraLite provides an efficient way to inter-connect presence detectors and luminaires using industry standard connectors. One or two detectors can be connected to up to ten luminaires depending upon the configuration required.

Electrical Connections

Screw terminals are provided under the cover for power supply connections and extension of the dimming control to other Connect Boxes. Override switches may also be connected here providing a means to control the switched live connections to the luminaires.

The installation should provide means of supply disconnection and over-current protection. Please refer to diagrams overleaf for further information.

The cover of the cable chamber is removed by inserting the tip of a flat bladed screwdriver into the catch recess and exerting light pressure on the handle in an inboard direction while lifting the long outboard edge of the cover.

The cable entries, for 20mm conduit, bushes or glands are semi-pierced in the walls of the cable chamber and can easily be removed from the outside with a 20mm hole saw.

If the cables are not routed right into the box through conduit or trunking, a cable restraining gland must be fitted at the cable entry for strain relief.

Fixing

The box should be sited on a suitable, smooth, flat surface using the two end fixing flanges. Consideration should be given to the box's location as access will be required to install the plugs. The box must not be distorted when fixing.

Alternatively, the box may be rod-fixed. In this case, the fixing should be substantial enough to withstand the action of plugging and un-plugging connectors.

Factory Configuration

When the unit is shipped, the dimming control and switched lives are linked in the terminal space. LK2 and LK3 MUST BE REMOVED if two detectors with dimming outputs are connected to the box. (LK1 must also be removed when using analogue detectors.)

A red indicator in the connection chamber indicates that power is present.

| | |
|-------|---|
| ML | MAINTAINED LIVE Internally connected to A2-6 and B2-6 |
| Lin | LIVE INPUT Internally connected to A1 and B1 Lin internally linked |
| Lin | |
| N | MAINS INPUT: 230V 50Hz Max load on any single outlet: 6A Max total load: 16A tc: 5 - 50°C No user-serviceable parts inside |
| E | |
| E | EARTH INPUT Protected Earth E terminals internally linked |
| SWA | GROUP A - - - - - (Connect wall switches here if not using plug-in detectors) |
| SWB | GROUP B - - - - - |
| PB-A | Manual input OneSwitch Group A (Only when used with compatible detectors) |
| PB-B | Manual input OneSwitch Group B |
| Spare | Spare terminals have no internal connection |
| Spare | |
| B- | Dimming Control NOTE: Links 2 and 3 MUST BE REMOVED when using two dimming detectors |
| A- | |
| B+ | |
| A+ | |

Connections are made as illustrated to the left. Two spare terminals are provided for termination purposes.

Live (Lin) is routed to the two detector connectors (A1 and B1).

Maintained Live (ML) is routed to the ten luminaire connectors, A2-A6 and B2-B6.

SWA is the switched live output from a detector connected to A1.

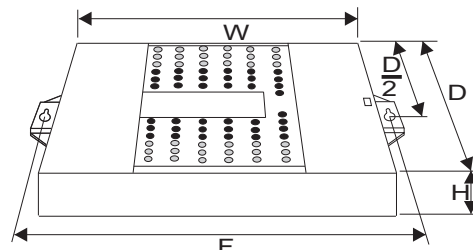
SWB is the switched live output from a detector connected to B1.

LK1 is a common connection between the switched live from each detector position. It must be removed to separate the luminaires into two groups.

Dimming Control Terminals

The Dimming Control signals from each detector to its group of luminaires are accessible at terminals under the connection chamber cover. Links are factory fitted to join the two groups on to one detector.

Dimensions



Height (H) = 50mm (108mm including plug and lead) Fixing Centres (F) = 340mm
Width (W) = 315mm (361mm including mounting feet) Weight = 1.85 kg
Depth (D) = 205mm

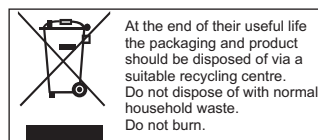
Technical Data

OPERATING VOLTAGE: 230V 50Hz (UK & Europe)
PRODUCT RATING/RECOMMENDED CIRCUIT PROTECTION: 16 Amps
MAXIMUM LOAD PER OUTLET: 6 Amps*
MAXIMUM TOTAL LOAD: 16 Amps*
SUPPLY TERMINAL CAPACITY: 6.0mm² (2 x 2.5mm²)
DIMMING TERMINAL CAPACITY: 4.0mm²
CASE MATERIAL: Polycarbonate
CASE FINISH: Lightly textured light grey

* Note: These specifications relate to the product when used as a simple wiring device. When mains-switching presence detectors are used in conjunction with this equipment, it is the presence detectors which will normally dictate the maximum load. It is important to check, and not exceed, the specification of the current-switching presence detectors, which will typically be around 6 Amps.

Ex-Or

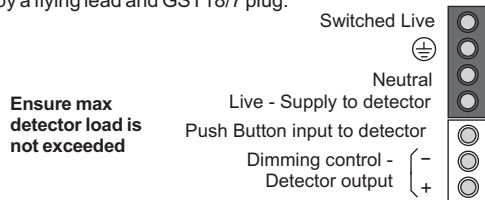
Novar ED&S Limited
Haydock Lane, Haydock, Merseyside WA11 9UJ
Tel: +44 (0)1942 719229 Fax: +44 (0)1942 272767
Email: technicalsales.ex-or@honeywell.com
www.ex-or.com



W5007C

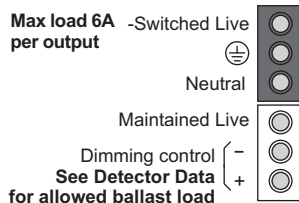
Detector Connection

There are two detector connection positions on each box. The detector is connected by a flying lead and GST18/7 plug.

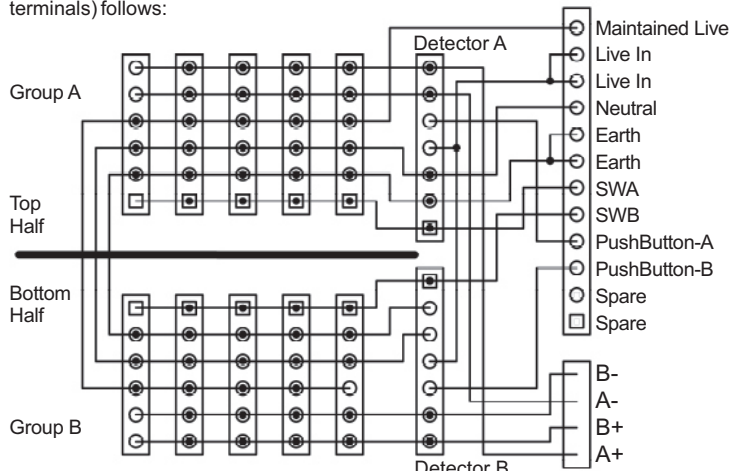


Luminaire Connection

There are ten luminaire outlets on each box. Each luminaire is connected by a flying lead and GST18/6 plug.



A simple schematic showing connection information (including two spare terminals) follows:

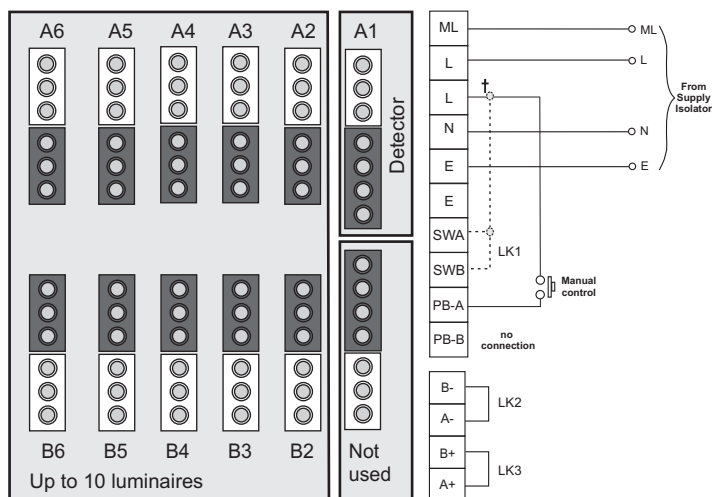


If sockets A1 and B1 are not occupied by presence detector, those sockets may be used for luminaires, however the plug will need to be 7-pole and wired appropriately.

Connection Examples

Single Detector with 10 Luminaires

(For load information, see Note under Technical Data)



Auxiliary Items

Luminaire Leads:

| | |
|---------|---|
| CPWL633 | 3m, 3-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |
| CPWL635 | 5m, 5-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |
| CPWL643 | 3m, 4-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |
| CPWL645 | 5m, 4-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |
| CPWL653 | 3m, 5-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |
| CPWL655 | 5m, 5-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |

Plug & Latching Shell (for luminaire):

CPWL6 GST 18/6 Plug & Ex-Or Latching Shell

Emergency Luminaire Leads:

| | |
|---------|---|
| CPWL663 | 3m, 6-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |
| CPWL665 | 5m, 6-core, 6-pole GST 18/6 Plug & Ex-Or Latching Shell |

Plug & Latching Shell (for detector):

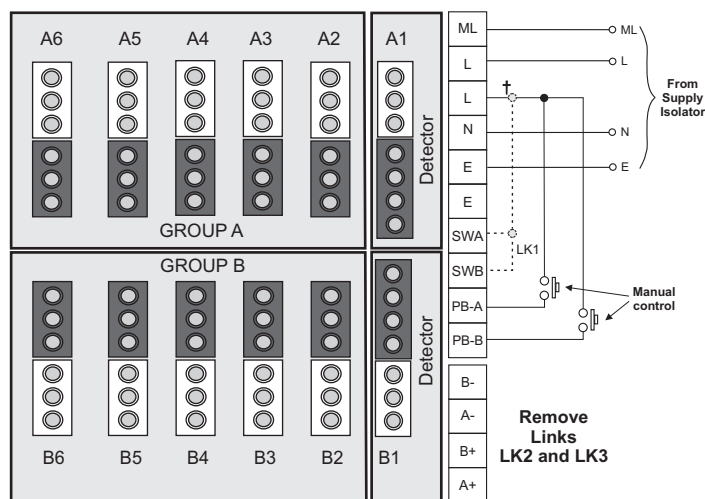
CPWL7 GST 18/7 Plug & Ex-Or Latching Shell

UltraLite Detectors:

| | |
|----------------|---|
| MS1100PFSWCWL7 | Bronze Series PIR with photocell - slimline flush |
| MS1200PFSWCWL7 | Silver Series PIR with photocell - slimline flush |

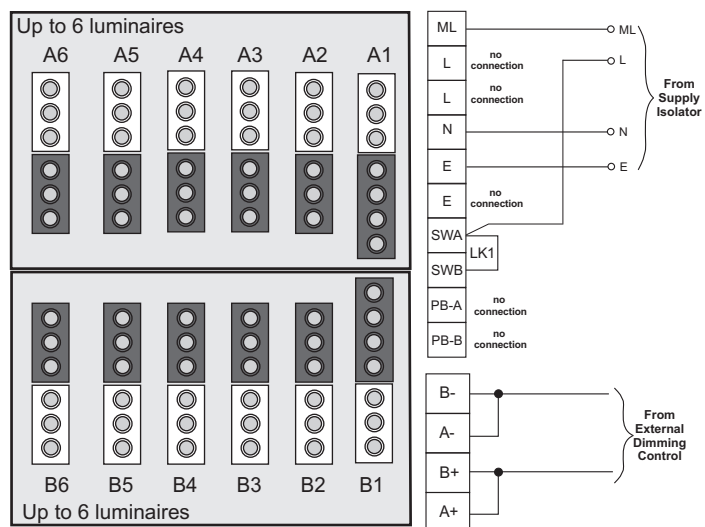
Two Detectors

(For load information, see Note under Technical Data)

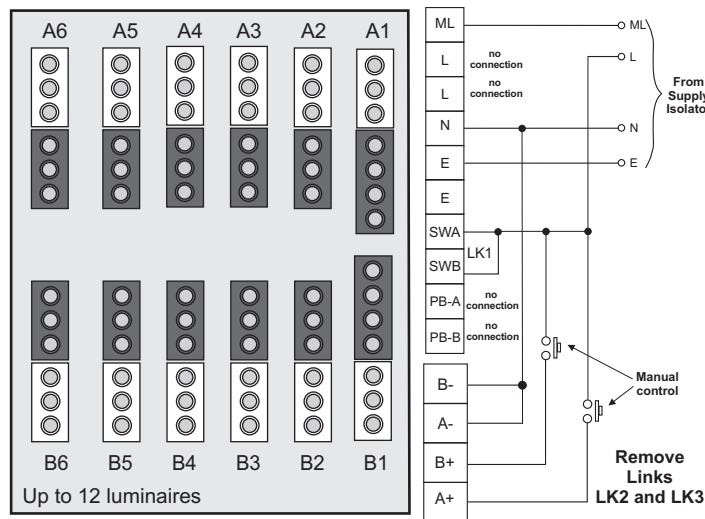


† LK1 is not required for analogue or switching type of detectors

Distribution Unit with External Low-Voltage Dimming Control



Distribution Unit with Mains-Based 'OneTouch' Dimming (for use with compatible Digital Ballasts)



- Notes:**
- (i) The dimming control connections are mains rated
 - (ii) Unit must not be used with multi-phase connections
 - (iii) Mains-based dimming must not be used in conjunction with Ex-Or's range of presence detectors.

UltraLite Detectors cont:

| | |
|-------------------|---|
| MS2000DFCWL7 | Silver Series PIR for DSI ballasts - flush |
| MS2000DALIFCWL7 | Silver Series PIR for DALI ballasts - flush |
| MLS2421DFCWL7* | Gold Series Microwave dual-output for DSI ballasts - flush |
| MLS2421DALIFCWL7* | Gold Series Microwave dual-output for DALI ballasts - flush |
| MLS2021DFDFCWL7* | Gold Series PIR dual-output for DSI ballasts - flush |
| MLS2021DALIFCWL7* | Gold Series PIR dual-output for DALI ballasts - flush |

UltraLite detectors incorporate the facility for OneSwitch operation and are supplied with 3m cable and 7-way latching plug.

* These products do not have MLS functionality and cannot be connected using an MLS cable.