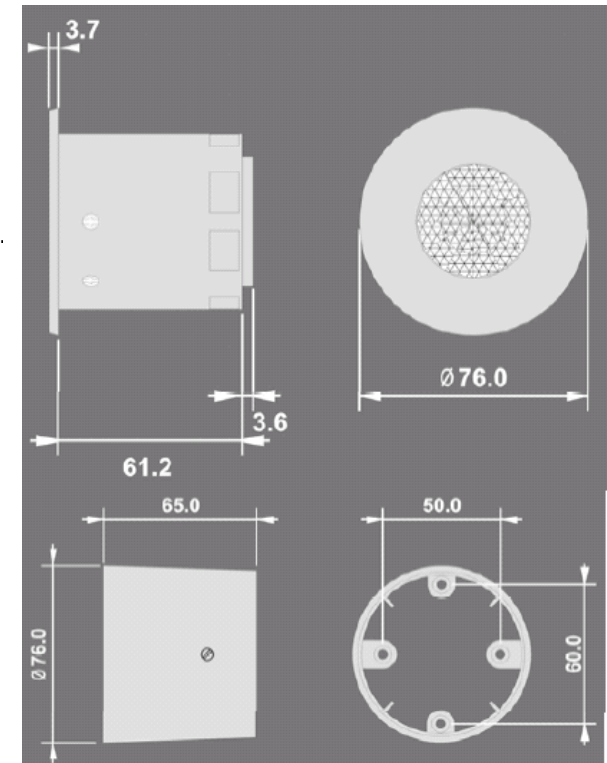


LuxMaster DLUX



Technical Data

Catalogue Number:	CPD/A
Supply Voltage:	220-240VAC 50Hz
Load:	8A resistive and incandescent lighting 6A fluorescent lighting 3A compact fluorescent lighting 3A low energy lighting 3A low voltage lighting (switch primary of transformer) Fluorescent lighting (max. 10 fittings recommended) For fluorescent lighting total power factor correction capacitance must not exceed 40 μ F. 3A fans and ventilation equipment Switch SON lighting via a contactor Up to 10 1-10V dimming ballasts
Time Out Period:	Adjustable 10 seconds to 30 minutes
Light Level:	100-800 LUX depending on location
Terminal capacity:	2.5mm ²
Material:	Flame Retardant ABS
Temperature:	-10°C to 35°C
Coverage:	7m based on a 2.8m ceiling height
Control/Adjustment:	Manual controls to rear of sensor head Control of light levels via user handset, CMD/REM2
Conformance:	EMC – 89/336/EEC LVD – 73/23/EEC



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Installation

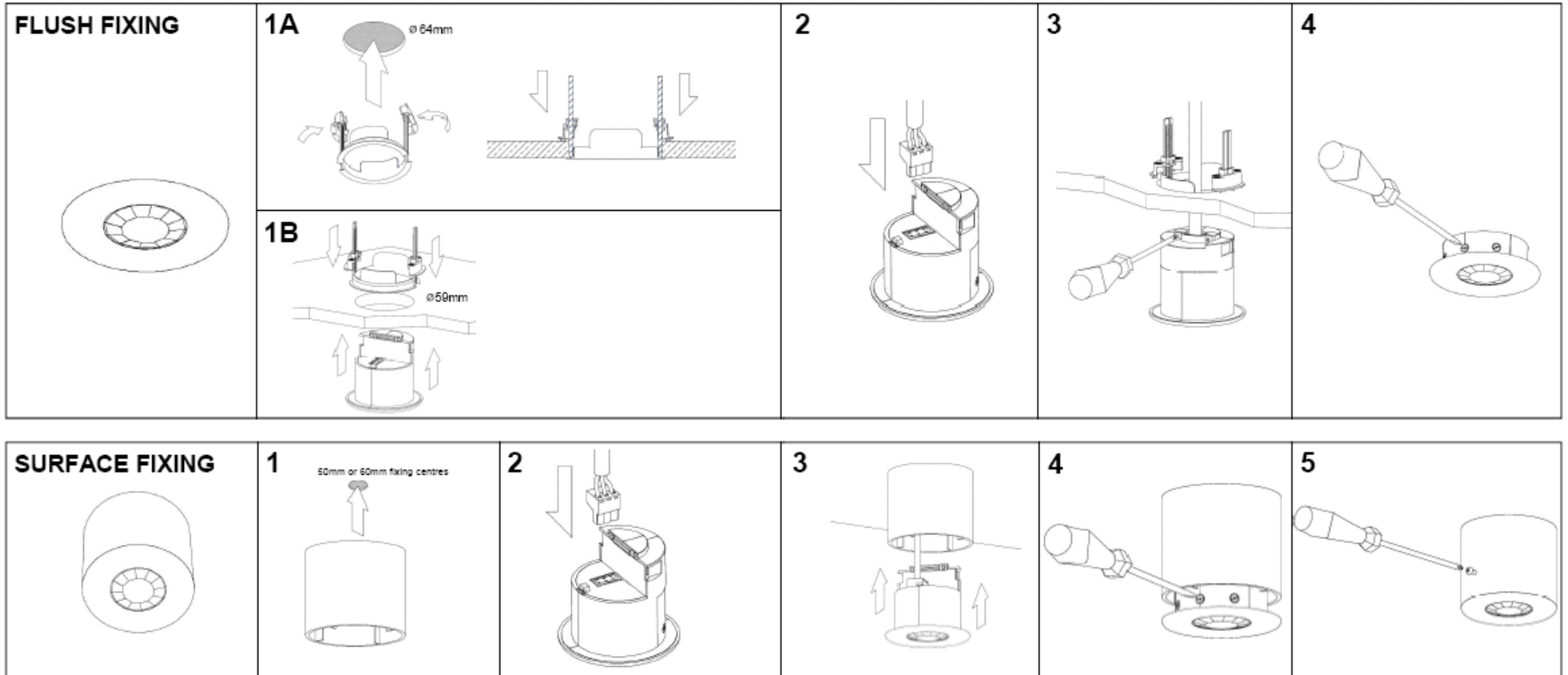
1. The detector should be sited so that the occupants of the room fall inside the detection pattern shown on page 6, at a recommended height of 2.8m on the ceiling. Note that the lower the sensor is installed the smaller the detection range will be, subject to the parameters shown on the diagram.
2. Avoid direct sunlight entering the sensor.
3. Do not site within 1m of forced air heating or ventilation.
4. Do not site within 1m of any lighting.
5. Do not fix to a vibrating surface.
6. Wire the product using the connector using the wiring diagram.
7. Mount using one of the three options on page 3.
8. To switch from more than one position simply wire two or more units in parallel using the Live, Neutral, Switched Live only. The dimming connection must be wired to one unit only.
9. Make sure the load is connected and in working order.
10. Isolate the mains supply to the circuit at the main consumer unit.
11. Connect the controller via the terminal block. Live supply to the *L* terminal, Neutral to the *N* terminal and the load to the *LIVE OUT* terminal.
12. Connect the dimming terminals of the ballast to the DIM- and DIM+ ensuring correct polarity.
13. Set the time to minimum.
14. Switch the mains supply back on at the distribution board.
15. The load should come on immediately.
16. Vacate the room or remain very still and wait for the load to switch off (should take no more than 2 minutes).
17. Check that the load switches on when movement is detected.
18. To set the LUX level and mode of operation see page 5.



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Fixing



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Description and Operation

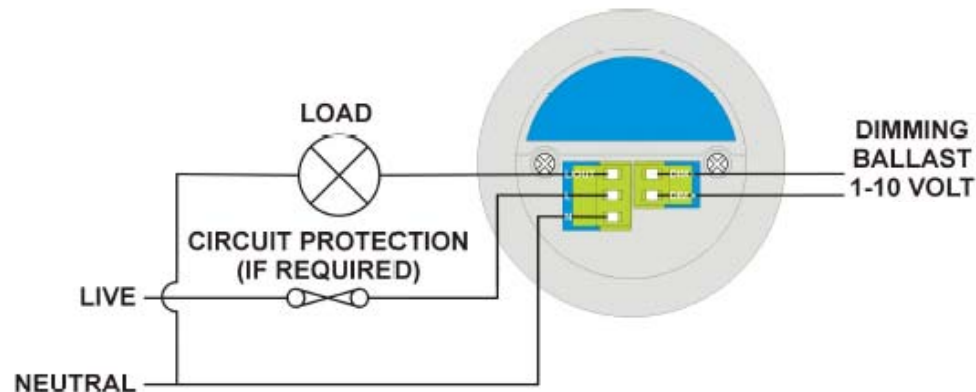
The CPD/A presence detector is designed to provide automatic control of lighting loads. It detects movement using a PIR sensor and turns the load on. When an area is no longer occupied the load will switch off after an adjustable time out period.

These units also provide a maintained illuminance feature. An internal light sensor measures the light level in an area and adjusts the output of the luminaries to maintain a constant, adjustable lux level. Note that this function only works with fluorescent fittings that have 1-10V ballasts.

When the unit is first powered up the PIR sensor will always detect immediately regardless of whether the room is occupied.

An integral IR sensor in the unit allows the unit to be used in conjunction with a remote control handset (part no: CMD/REM2) to:

- Act as a conventional dimmer
- Override the unit on or off
- Change the maintained illuminance lux setting



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Setting the lux level and mode

1. Starting at halfway, use the LUX adjustment to set the target lux level.
2. During operation the output LUX changes very gradually. However when the LUX adjuster is moved, the unit automatically enters setup mode: in this mode the output changes rapidly. After 2 minutes the unit reverts to normal.
3. When adjusting the output, allow the LUX level to settle by turning very gradually.
4. The target LUX level can be changed using the optional user handset (CMD/REM2).
5. Set the mode of operation using the MODE adjustment. The following modes are available:
 - OFF Turns off immediately occupancy ceases
 - FADE Dims down to a preset level for 5 minutes and then turns off
 - DIM Dims down to a preset level for 5 minutes and then dims to the lowest possible level without turning off

User handset

USING AS A DIMMER

When the lighting is switched, the light level can be manually adjusted. Set the level using the LUX UP and LUX DOWN buttons.

To revert to maintained illuminance press CANCEL.

The unit will automatically revert to maintained illuminance after an occupancy cycle. If maintained illuminance is disabled (see above) then the unit will act only as a dimmer.

SETTING THE LUX LEVEL

The maintained illuminance target lux level can be set as above or using the handset. To set the level press the SET button. Then slowly press the LUX UP or LUX DOWN buttons to obtain the desired lux level.

After 2 minutes without pressing the buttons, the unit will revert to normal operation. This can be achieved sooner by pressing CANCEL.

SETTING THE SWITCH ON LEVEL

This is the light output that will be set when the unit first switches on.

Press the LUX UP and LUX DOWN buttons to reach the desired switch on level (do not press the SET button first). Press the ON button within 10 seconds to memorise the level as the switch on level.

OVERRIDING ON AND OFF

To turn OFF permanently press the OFF button. To return to automatic operation press CANCEL.

To turn on permanently press the ON button. To return to automatic operation press cancel.

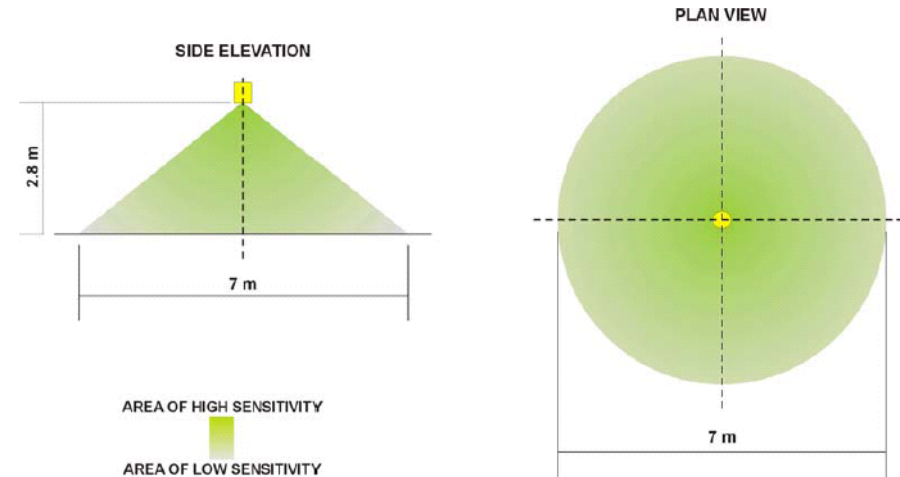
In both override modes the LED will flash.



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Detection Patterns



Fault Finding

LOAD DOES NOT COME ON

Check to see if the live supply to the circuit is good. Strap across the *L* and *LIVE OUT* terminal to turn the load on.

If the detection range is smaller than expected, check the diagram above. Rotating the sensor slightly may improve the range.

If the LED is flashing, press the cancel button on the handset.

LIGHTS DO NOT GO OFF

Ensure that the area is left unoccupied for longer than the selected timer setting.

Make sure that the sensor is not adjacent to circulating air, heaters or lamps.

If the LED is flashing, press the cancel button on the handset.



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