Fixing to Ceiling - Standard Method

1. Remove spring
2. Rotate Lockring and pull up

Removing the Terminal Cove

1. Ratchet
2. Ratchet Component x4

Fixing to Ceiling - Secure Lockring Method (Available separately, please order LOCKRING)

1. Ceiling tile (Minimum range 1-20mm)
2. Lockring

Electrical Connections

Introduction
The MLS3000CDR & MLS3003CDR offer high performance presence detection and contain a photocell to monitor total light levels, allowing the light output of dimmable luminaires to be adjusted to suit the natural light level available. An integrated infrared port can be used both for local control from a hand-held device, when in service, and for initial CDW12U5/CDH4U5/CDH8U5 Lighting Control Module (LCM) system commissioning. When properly installed and connected the MLS3000CDR & MLS3003CDR are SELV devices.

Connecting
The MLS3000CDR & MLS3003CDR connect to the LCM via an eight core, RJ45 plug terminated, patch lead see fig1. All such patch leads must be segregated from mains wiring to preserve SELV status that is provided by the LCM design.

Ready-made patch leads in lengths of 3m, 5m and 10m are available from Ex-Or. (See overleaf for Part Numbers.)

Where it is a requirement that the patch leads are protected by conduit it may prove more convenient to run the cables unterminated and attach the RJ45 connectors afterwards. In this case the cable used should be 4-twisted pair, 24awg multistranded, unscreened data cable to Category 5E standard (e.g. Belden Datatwist 350). No strain-relief hoods should be fitted to the case the cable used should be 4-twisted pair, 24awg multistranded, unscreened data cable to

Category 5E standard.

The wiring scheme used should follow either the T-568A or the T-568B Ethernet standards, and must give "1-1", "straight-through" connectivity between the two RJ45 connectors for all eight cores. Note that the maximum allowable cable length between the MLS3000CDR & MLS3003CDR and the LCM is 100m.

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Honeywell Ex-Or
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Horsham, West Sussex RH12 2PG
Tel: +44 (0)1942 719229
Web: www.ex-or.com

Technical Support
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Technical Data
OPERATING VOLTAGE: 12V DC, SELV if installed correctly.
PHOTOCELL: Regulating
WEIGHT: MLS3000CDR - 121g (Flush version); 139g (Surface version)
MLS3003CDR - 139g (Flush version); 233g (Surface version)
COLOUR: White RAL9010
MATERIAL: Flame retardant PC/ABS
IP RATING: 4X

Part Numbers
BT5E030GY 3m Detector Patch Lead
BT5E050GY 5m Detector Patch Lead
BT5E100GY 10m Detector Patch Lead
SURFMT Surface-mount Kit (supplied with SM versions)
LSHDFLUSHMT Flush-mount Kit for converting SM versions
LOCKRING Secure Lockring

Radius extension at full tilt

<table>
<thead>
<tr>
<th>Type</th>
<th>Office</th>
<th>Mid-Bay</th>
<th>Hi-Bay</th>
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<tbody>
<tr>
<td>Max. Range</td>
<td>3.5m</td>
<td>4.1:1</td>
<td>2.6:1</td>
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<tr>
<td>Angle Ratio (diameter : height)</td>
<td>4:1</td>
<td>2:1</td>
<td>1.9:1</td>
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</table>

Tilt and Lock the Sensor
Some products feature the ability to tilt the sensor (before fitting) by up to 10° in 2° increments, in order to extend the range in one direction. This may be useful in cases where the ideal mounting location is not available. The increased range is indicated in fig 5.

NOTE: Do not place in a position where access is limited.

Uninstalling and Repositioning
Insert a flat headed screwdriver into the slot as shown and twist the collar anti-clockwise to release, (fig 3).

To separate the sensor from the surface mount casing, push a flat headed screwdriver onto the tab via the inside void of the casing and pull the sensor upwards, (fig 4).

Fixing to Ceiling – Surface Mounting (optional)
Product variants with “SM” suffix on the part number are supplied with the surface fitting kit as standard. The surface mount kit is available as a separate part, please order SURFMT.
The sensor may be mounted to any suitable surface, but is most commonly fixed to a conduit stop-end (fig 2 set) (BESA) box or bushed to trunking.

The sensor should be positioned on the ceiling in the centre of the occupied space. This product is available in three different mounting height variants; see fig 1 and the table below. Ensure that the maximum recommended mounting height is not exceeded. Do not mount within 0.25m of a luminaire. Avoid mounting next to an AC unit.

For additional information on positioning please refer to ‘Tilt and Lock the Sensor’.

The sensor is more sensitive to movement across the beam compared with movement towards the centre.

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