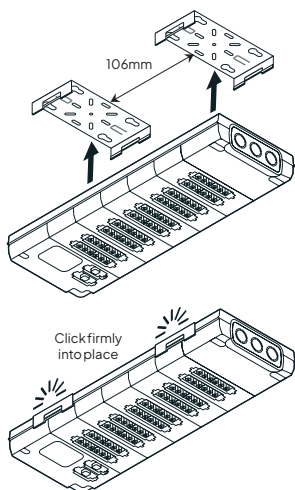


# Cu-Connect Lighting Control Module 10-WAY

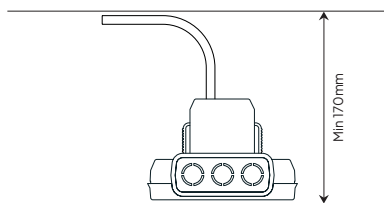
## Installation:

This device is designed to be ceiling-mounted or wall-mounted using supplied brackets.

- Install devices in the position shown on the installation drawings where possible.
- Always ensure that installation complies with relevant Building Regulations and that device wiring meets the requirements of the latest IET Wiring Regulations (BS7671).
- The brackets can be used to mount the LCM directly to a smooth, flat surface, or they can accept a threaded rod for drop-rod installation.
- A template is supplied in the LCM packaging to assist with fixing/drilling hole centres for the brackets.



- Ensure that there is easy access to the wiring compartment and all connectors once the box is in place. Allow 170mm for total height of installed unit including connectors and cable.



- Ensure that the LED indicator on the front corner of the LCM is visible from ground level for commissioning purposes. A short green LED pulse indicates LCM is 'healthy' under normal operating conditions.
- The 'test button' on the front corner of the LCM allows manual testing of lighting connections when LCM is initially powered up.
- Only connectors supplied or approved by Cucumber Lighting Controls shall be used with the LCM.
- The LCM should be disconnected from mains supply when plugging or unplugging any luminaire or sensor connector.
- The retaining means provided with the LCM must be used to support the cabling.
- Installation coupler systems described in this document are not replacements for the national domestic plug and socket outlet systems.
- Not suitable for installation in readily accessible areas.

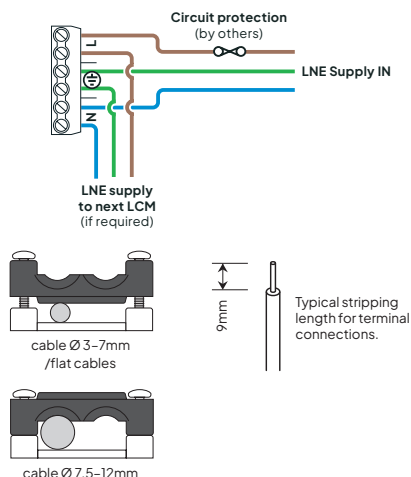


**WARNING:** This device should be installed by a qualified electrician in accordance with the latest edition of the UK Wiring regulations.

## LCM wiring connections:

Terminate cables into connections as per the wiring diagrams shown below. Secure the cable/bar clamp using 14mm screws (supplied). Do not overtighten.

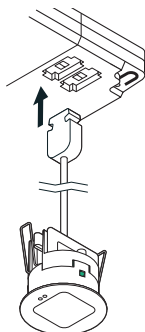
- Connect Live Earth and Neutral to the LCM as below.



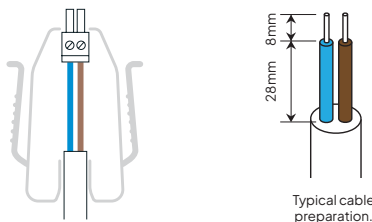
## Sensor connections:

You must connect all detectors before programming the LCM.

- Both PIR and microwave sensors can be used with the LCM.
- Sensors plug into the associated ports on the front of the LCM, using 2-core flexes. Pre-wired sensor leads are available – please contact our sales office for details.
- Recommended cross sectional area 1mm<sup>2</sup> (CSA) of cable if contractor is supplying their own flexes, 50m max. total cable length between all sensors.



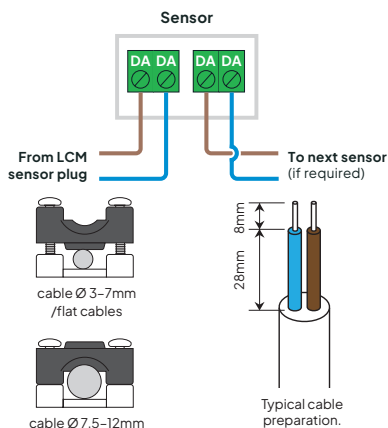
## LCM sensor plug connections:



If supplying your own cable for sensor connections, please use 2-core 0.75mm<sup>2</sup> (min.) Mains rated cable. The working voltage of the sensor is 16V approx, but as DALI Connections are not defined as Safety Extra Low Voltage (SELV), Mains-rated cable must be used for connections.

## Sensor wiring connections:

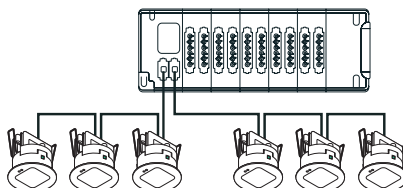
The pluggable green connectors can be removed from the sensor if needed to make wiring easier.



Secure the cable/bar clamp using 14mm screws (supplied). Do not overtighten.

## Multiple sensors:

Up to 6 sensors can be connected to each LCM.



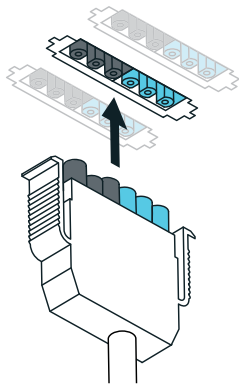
## Luminaire connections:

The LCM is compatible with DALI, DALI-2 and D4i drivers, operating under a single master application controller without feedback facility.

You must use mains-rated cable with a minimum CSA of 1 mm².

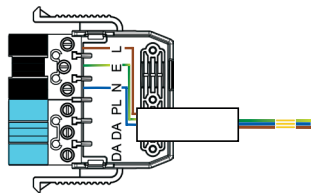
Plug in the luminaires ensuring that the connector latches to the box (pre-wired luminaire leads are available - please contact our sales office for details).

Please leave additional length for the Earth wiring to ensure it is the last wire to disconnect and the first wire to connect if the cord is pulled or strained.

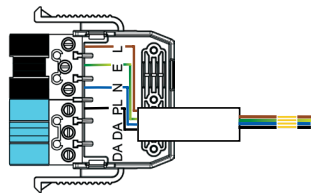


|                                                                                     |   |                |
|-------------------------------------------------------------------------------------|---|----------------|
|    | 1 | Switched Live  |
|   | 2 | Earth          |
|  | 3 | Neutral        |
|  | 4 | Permanent Live |
|  | 5 | DALI           |
|  | 6 | DALI           |

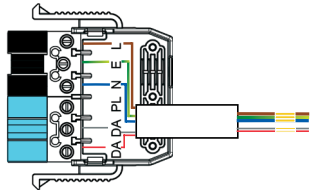
### 3 Core (switched live, earth and neutral) cable connection:



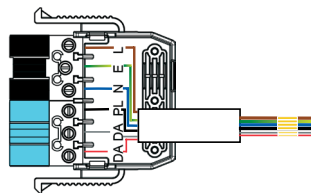
### 4 Core (switched live, earth, neutral and permanent live) cable connection:



### 5 Core (switched live, earth, neutral and DALI pair) cable connection:



### 6 Core (switched live, earth, neutral, permanent live and DALI pair) cable connection:



## Functionality and programming

Please refer to user manual for set up and programming the LCM.

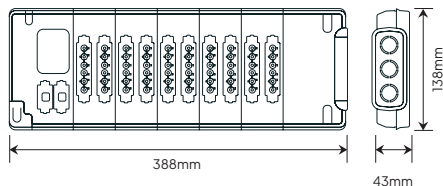
### LCM Specifications

|                             |                         |
|-----------------------------|-------------------------|
| Supply Voltage              | 220VAC – 240VAC         |
| Max Load (Total for LCM)    | 10 Amps @230VAC         |
| Max Load per Connector      | 6 Amps @230VAC          |
| Parasitic Power Consumption | TBC                     |
| Max No of Sensors           | 6                       |
| Max DALI Supply             | 217 mA @13.8V           |
| IP Rating                   | IP20                    |
| Working Temperature         | -10 to +35 °C           |
| Humidity Range              | 5 to 95% non-condensing |
| Unit Weight                 | TBC                     |
| Material (Casing)           | ABS Dev962 UL 94 VO     |

### Luminaire Plug Specifications

|                            |                                                                             |
|----------------------------|-----------------------------------------------------------------------------|
| Rated Voltage              | 250VAC                                                                      |
| Rated Current              | 10 Amps                                                                     |
| IP Rating                  | IP20. IP40 When Connected                                                   |
| Working Temperature        | Max Short Term: +45°C<br>Continuous: +35 °C                                 |
| Material (Casing)          | UL94 VO ABS, Black/Blue.<br>Cover and baseplate is<br>Polycarbonate ABS mix |
| Contact Screws             | M3 silver plated brass<br>contacts                                          |
| Moulding Screws            | M3 X 8mm Pan Head Pozidrive<br>Screw (Thread rolling plastic)               |
| Screw Tightening Torque    | Contacts: Max: 0.5Nm<br>Mouldings: Max 0.5Nm                                |
| Conductor Size             | 1mm² to 2.5mm²                                                              |
| Conductor Stripping length | 9mm                                                                         |

### Dimensions



### Further information



Scan QR code  
for full product  
datasheet

Download the Cucumber  
Controls app on App Store  
or Google Play



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