

# Installation Guide

## LCMD-10

DALI-2 Lighting Control Module



### iLight

Usk House, Lakeside  
Llantarnam Park,  
Cwmbran,  
NP44 3HD, UK

t: +44 (0)1923 495495  
e: enquiries@iLight.co.uk  
www.iLight.co.uk

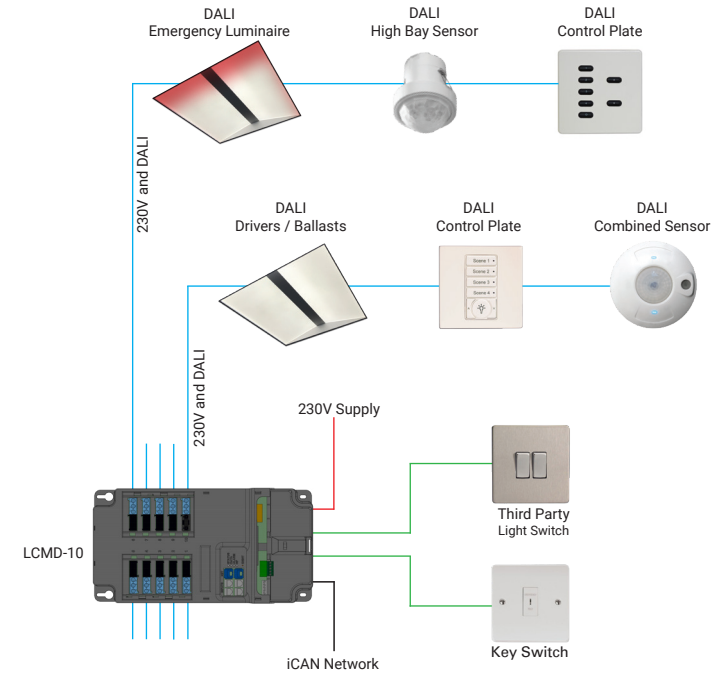
**EU Authorised Representative**  
Cooper Lighting Netherlands B.V.  
High Tech Campus  
HTC 48  
Eindhoven  
5656 AE

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Doc No: 9850-000754-04

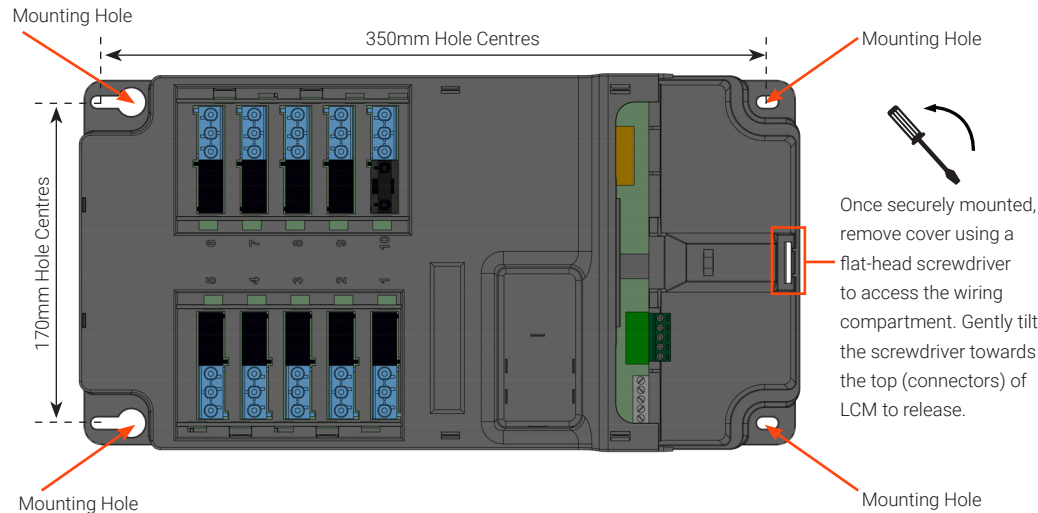


### Typical Schematic



### Mounting & Installation

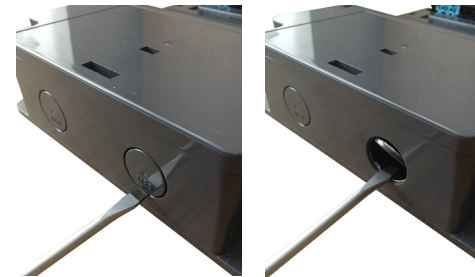
LCMD-10 must be securely mounted to a suitable surface using the 4 mounting holes provided with fixings suitable for the substrate (Maximum fixing diameter 6mm). The LCM can be mounted in any orientation to cable trays, walls and direct to a ceiling slab. All cables should be independently secured with appropriate fixing straps in accordance with local electrical regulations. Incoming mains, data and input cables should be installed using suitable compression cable glands to provide strain relief.



### Removing Knockouts

The knockouts can be removed with a flat-head screwdriver in 2 simple steps:

1. Place the flat-head screwdriver into the slot of the knockout that is to be removed. The screwdriver must be placed in the slot nearest to the bottom of the enclosure (opposite the cover).
2. Hit the end of the screwdriver to shear the knockout and remove the rest of the knockout by hand if necessary.



Alternatively an appropriate sized hole saw can be used utilising the drill bit location point at the centre of each knockout.

### Technical Data

#### Electrical Data

Supply: 230 volts +/- 10%, 50/60 Hz  
Terminals max. wire size: 4mm<sup>2</sup> loop in/out  
iCANnet™ inputs/output: 5 pole Phoenix connector  
Maximum DALI cable length: 300m per LCM  
Minimum DALI cable conductor diameter: 1.5mm<sup>2</sup>  
Protection: Provided by installer - Max 16A  
DALI signal: Nominal 14V, max current 250mA supply.  
Minimum guaranteed current 195mA  
Automatic shut-down and restart after short-circuit (maximum 1 per bus) according to IEC 62386-101

#### Inputs & Outputs

10 ports with 6 pole GST/18 connectors  
4 x RJ12 analogue sensor inputs  
Max 30 DALI luminaires (or short addresses) distributed at will across 10 ports  
In addition: 1 DALI sensors per port,  
1 DALI control plate or DALI-I-U per port  
1 DALI emergency luminaire per port

#### Mechanical Data

Dimensions: 200.2mm (w) x 382.8mm (h) x 57.5mm (d)  
Maximum diameter of fixings: 6mm  
Weight: 2.5 kg

#### Operating Conditions

Operating temperature: +2°C to +50°C  
Max storage temperature: +60°C  
Humidity: +5 to 95% non-condensing  
Environmental protection: IP20

# LCMD-10

## DALI Lighting Control Module

### Device LEDs and Buttons

#### Status LED

Green LED flashes – device OK

#### Data LED

Red LED flashes when messages sent on network  
Red LED solid indicates iCANnet network error

#### Alarm LED

Red LED flashes ON for local initiated alarm  
Red LED solid for network initiated alarm

#### Device Identification (IDENT)

By pressing the IDENT button

### iCAN Network Connections

Function	iCANnet Cable Colours
0V	Black
CAN L	Blue
Shield	Silver
CAN H	White
+V DC	Red

Maximum segment distance: 500m (1640 ft)  
Devices per segment: 100 (without bridge or repeater)  
Consult iLight for information on alternative cable types.

#### Network Power Requirements

Nominal operating voltage: 15V DC (12-18V)

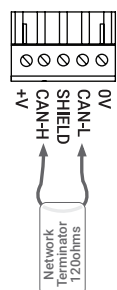
**IMPORTANT NOTE:** Connecting a mains potential cable to the iCAN Network terminals is likely to damage the unit and other devices connected, and invalidate warranty.

### Network termination

If the LCMD-10 is connected as the last device on the iCAN network, the supplied 120ohm network termination resistor will need to be added.

Install the supplied 120ohm resistor between CAN-H & CAN-L in addition to the network wiring.

#### iCANnet Connection



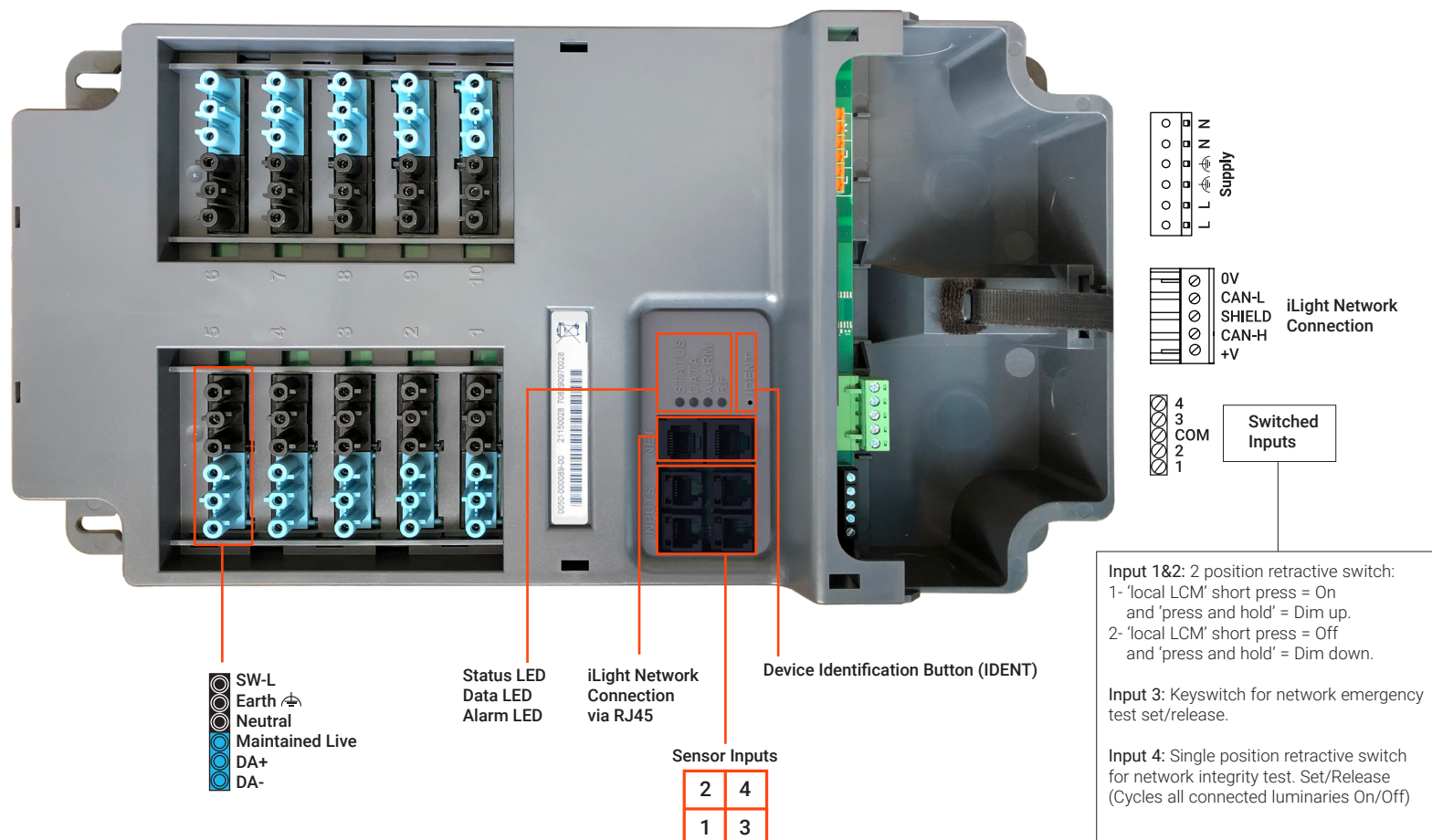
### Typical Connection Diagram

#### Incoming Supply

230 volts +/- 10%, 50/60 Hz

Mains supply protection:  
Provided by installer (16A Max)

**IMPORTANT NOTE:** If the external luminaire requires a protective earth for safety purposes then a protective earth must be installed during the installation process by a qualified installation engineer/ electrician to the local/national regulations. LCMD-10 does not provide a protective earth.



**Input 1&2:** 2 position retractive switch:  
1- 'local LCM' short press = On and 'press and hold' = Dim up.  
2- 'local LCM' short press = Off and 'press and hold' = Dim down.

**Input 3:** Keyswitch for network emergency test set/release.

**Input 4:** Single position retractive switch for network integrity test. Set/Release (Cycles all connected luminaires On/Off)