Installation Guide

LCMD-10 DALI Lighting Control Module





t: +44 (0)1923 495495 e: info@cooperlightingsolutions.co.uk www.cooperlightingsolutions.co.uk

EU Authorised Representative

Cooper Lighting Solutions

Usk House, Lakeside

Llantarnam Park,

Cwmbran. NP44 3HD, UK

Cooper Lighting Netherlands B.V. High Tech Campus HTC 48 Eindhoven 5656 AE

E&OE. iLight reserve the right to make changes to the equipment without prior notice. © Cooper Lighting Solutions

Doc No: 9850-000754-01



UK CA



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.

Mounting Hole



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: 4mm² loop in/out iCANnet[™] inputs/output: 5 pole Phoenix connector Maximum DALI cable length: 300m per LCM Minimum DALI cable conductor diameter: 1.5mm² Protection: Provided by installer - Max 16A DALI signal: Nominal 16V, max current 200mA supply. Guaranteed minimum current 150mA 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

Mounting Hole

Mounting Hole

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 |
| +VDC | 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: 15VDC (12-18V)

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

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.

