LCMD-10

10 Port Switching and Auto Addressing DALI-2 Lighting Control Module

Key Features

- 10 auto addressing DALI ports with Relay switch outputs and maintained supply
- Supports iLight DALI inputs, control plates and sensors
- Supports DALI Type 8 tuneable white
- 4 RJ12 analogue sensor inputs for legacy sensor connection
- Conventional emergency luminaire testing via inbuilt relay
- Supports DALI emergency luminaire testing
- Full DALI feedback for lamp status, DALI error and EM test
- Low profile, ideal for ceiling voids with limited space (Approximately 105mm depth, subject to cable type)
- CE compliant to all relevant standards
- Designed and manufactured to ISO9001 standard

Overview

Intelligent pluggable lighting control module supporting mixed switching and DALI control applications. A maximum of 30 DALI luminaires (or short addresses) can be distributed at will across the 10 auto addressing DALI ports. In addition, each port supports 1 DALI Emergency Luminaire, 1 DIU-4 or DALI Control Plate and 1 DALI Sensor. Alrenatively each port can be used to switch a non-dimmable lighting load.

DALI devices are auto discovered eliminating the time consuming identification process normally associated with DALI systems. Legacy analogue sensors can be configured for occupancy and LUX level control.

LCMD-10 auto addresses and groups all DALI devices with a default configuration as soon as power is provided. Should a connected DALI device require replacement, the LCM will address the device upon connection and the system will 'self heal' requiring no intervention from a commissioning engineer.

Conventional and DALI emergency luminaire testing is supported in addition to standard DALI faults including lamp, communication and driver failures.

The low profile design of the LCMD-10 is ideal for low ceiling voids or mounting directly on cable tray.

Mechanical Data

Dimensions: 200.2mm (w) x 382.8mm (h) x 57.5mm (d)

Maximum diameter of fixings: 6mm

Weight: 2.5 kg

Operating temperature: +2ºC to +50ºC

Max storage temperature: +60ºC

Humidity: +5 to 95% non-condensing

Environmental protection: IP20

Electrical Data

Supply: 230VAC +/- 10%   50-60Hz   0.2A Max

Load Protection: Provided by installer

Control Supply: 15V 100mA

Terminal Sizes (Capacity per terminal):
    Supply/DALI screw terminals: 2x1mm^2 or 1x 2.5mm^2
    Input screw terminals: 0.2mm^2 to 1mm^2
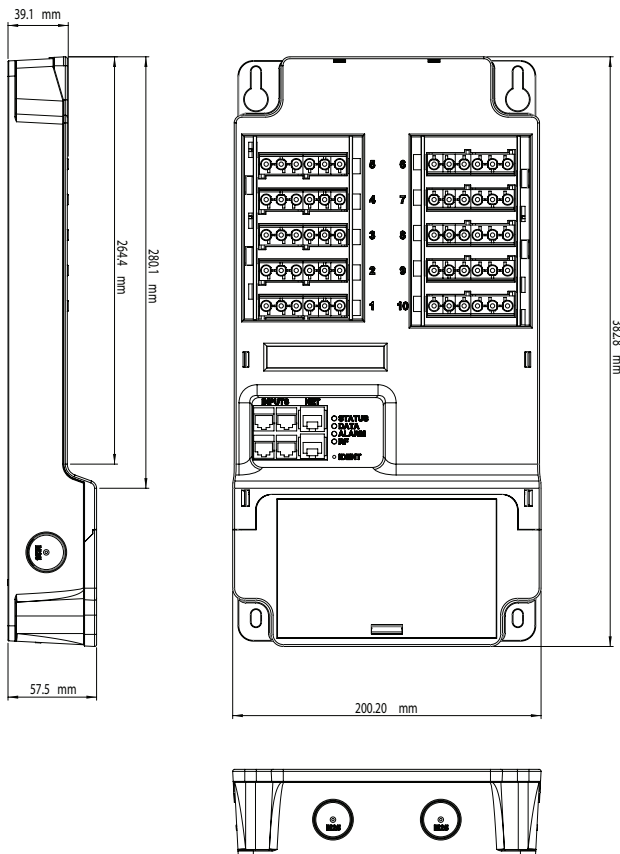   iCANnet™ input/output screw terminals: 5 x 1mm^2

Terminal Torque Settings:
    Supply, input, iCANnet terminals: 0.5Nm

Input Cable (VFC) Length: 30m MAX

Installation: Installation must be carried out by a suitably qualified electrician.

Dimensions

Load Data

Relay outputs: Capable of switching inductive, capacitive and resistive loads
10 x 5A relays, 230VAC +/- 10%   50-60Hz
Inrush current: TV8 Rated (20 ms - 117 A)

DALI line outputs: Nominal 14V, max current 250mA supply per DALI line output. Guaranteed minimum current 195mA

Automatic shut-down and restart after short-circuit (maximum 1 per bus) according to IEC 62386 Part 101

DALI Compliance: DALI-2 Application controller (Multi Master)
IEC 62386 Part 101

Supports: Part 201 to 208, 209 partial.

See DALI Alliance (DiiA) website for full list of supported parts at www.dali-alliance.org/products

Maximum devices: While the LCMD-10 will support up to and including the numbers of devices stated in this document (DALI output/inputs) there may be limitations, based on the available current. Please refer to iLight support for our DALI line current calculator.

DALI Device Capacity
10 ports with 6 pole GST/18 connectors
Max 30 DALI luminaires (or short addresses) distributed at will across 10 ports
In addition: 1 DALI sensor per port,
                    1 DALI control plate or DIU-4 per port
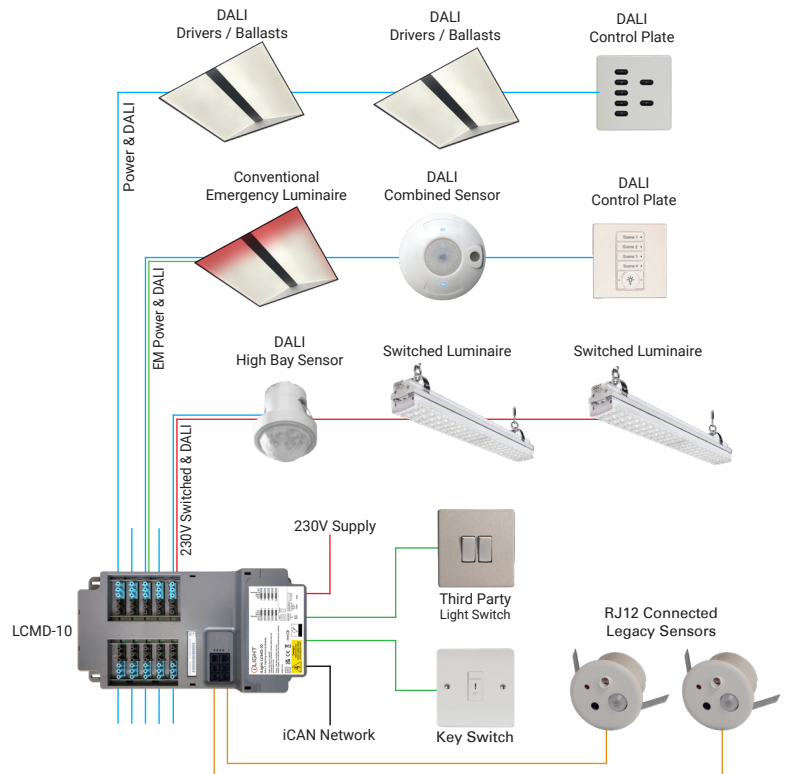   1 DALI emergency luminaire per port

Control Data

Control: Via iLight network connection
Recommended Network Cable: iCANnet™ Network Cable
Programming: Via iLight commissioning tool

Typical Schematic

UKCA

CE

bsi ISO 9001 Quality Management Systems CERTIFIED
FM 727924