EBR-DIN-LCM5-5, D, DALI & DSI Product Guide

mySmart

Lighting Control Module

Overview

The EBR-DIN-LCM5-5 series of lighting control modules (LCMs) are used as part of the Rapid lighting control system to switch lighting. They have five individually addressable output ports for switching, and on the D, DALI and DSI models these also provide dimming signals for dimmable luminaires.

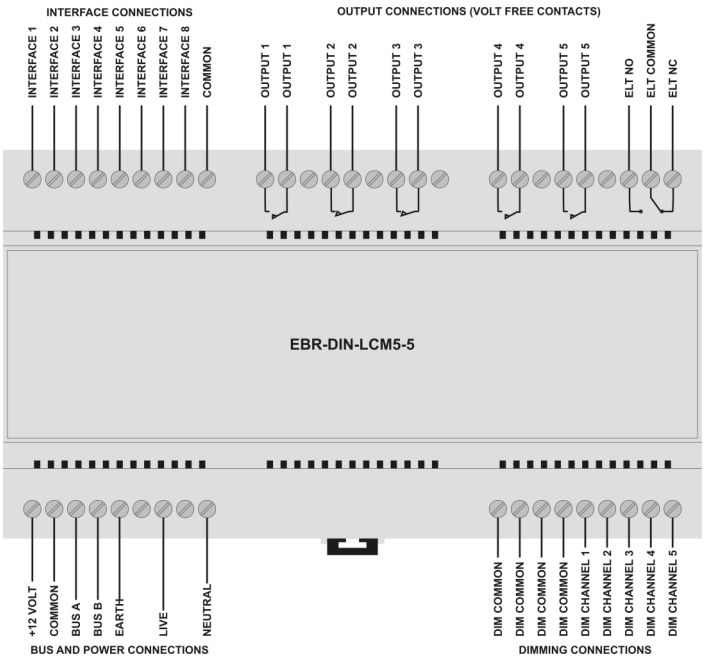
A separate relay is used for emergency testing. Incorporated on the box is an eight channel interface for connection to external devices such as light switches, emergency test switches and time clocks.

The LCM offers many features including:

- Individual addressing of outputs
- Adjustable off delays and group delays
- Adjustable start up lighting levels
- Scene control for each channel
- Bus and activity LEDs
- IR or computer front end setup

The LCMs are available fitted into an enclosure, either as a 5 channel or as a 10 channel unit comprising of 2 LCMs.

Installation and Wiring



***Warning**. This device works at mains potential. Be sure to take care when working with electricity.*

- Install the module in a suitable housing. This unit is compatible with standard DIN rail enclosures
- Wire as in the diagram opposite. Two types of output are provided:
  - Switched output x 5
  - Emergency lighting test output
- The switched output are voltage free and can be used across multiple circuits

WARNING—ENSURE CIRCUITS ARE ON THE SAME PHASE

- Where multiple emergency lighting circuits are used, a multi-pole contactor should be connected to the emergency lighting test terminals to provide isolated outputs.
- Where specified on the installation drawings, connect switches to the interface connections between the input and common. Switches must be isolated.

Commissioning

To bring the lights on prior to commissioning, do one of the following:

- Power the boxes up without a bus controller or area controller connected. After about 15 minutes all channels will energise.
- From the user menu of the programming handset, select *override on Y*, send this to each individual box. Note that if the power is reset, this action will need to be performed again.

Commissioning will normally be performed by our trained commissioning engineers.

Please note that prior to commissioning, it is the responsibility of the installing contractor to ensure the following:

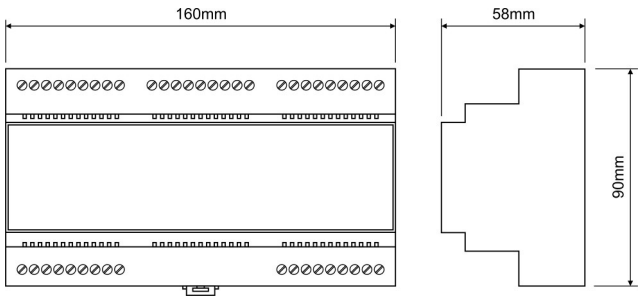
- The units must be connected and installed as described overleaf
- Mains power must be available
- Luminaires must be connected
- Bus connection must be established and checked

The LCM can be set up using our infrared programming handset or computer front end. For programming details see the separate programming document.

Specification

LOAD
Switched output:
10A lighting load per channel
Switch SON lighting loads via a contactor

DIMMING
Maximum 22 ballasts per unit
Any number per channel subject to maximum unit limit
Cable lengths for dimming outputs:
100m using 0.5mm^2 wire
150m using 1.00mm^2 wire
300m using 1.5mm^2 wire



SUPPLY VOLTAGE	220-240 Volts AC 50 Hz
TERMINAL CAPACITY	1.5mm^2
MATERIAL	Flame retardant nylon and ABS
TYPE	Class 2
TEMPERATURE	-10°C to 35°C
CONFORMITY	EMC-2004/108/EC LVD-2006/95/EC

CE

Part numbers

EBR-DIN-LCM5-5	Rapid 5 channel DINrail switching LCM
EBR-DIN-LCM5-5D	Rapid 5 channel DINrail 1-10V dimming LCM
EBR-DIN-LCM5-5DALI	Rapid 5 channel DINrail DALI dimming LCM
EBR-DIN-LCM5-5DSI	Rapid 5 channel DINrail DSI dimming LCM
EBR-HWLCM-5-5	Rapid 5 channel hardwired switching LCM in an enclosure
EBR-HWLCM-5-5D	Rapid 5 channel hardwired 1-10V dimming LCM in an enclosure
EBR-HWLCM-5-5DALI	Rapid 5 channel hardwired DALI dimming LCM in an enclosure
EBR-HWLCM-5-5DSI	Rapid 5 channel hardwired DSI dimming LCM in an enclosure
EBR-HWLCM-2-5-5	Rapid 10 channel hardwired switching LCM in an enclosure
EBR-HWLCM-2-5-5D	Rapid 10 channel hardwired 1-10V dimming LCM in an enclosure
EBR-HWLCM-2-5-5DALI	Rapid 10 channel hardwired DALI dimming LCM in an enclosure
EBR-HWLCM-2-5-5DSI	Rapid 10 channel hardwired DSI dimming LCM in an enclosure

IMPORTANT NOTICE!

This device should be installed by a qualified electrician inaccordance with the latest edition of the AS/NZS Wiring Rules and any applicable Building Regulations.

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