CP electronics

RAPiD series 3

EBR-LCM3-1DD
Pluggable 3 Channel
LCM DALI/DSI Dimming

The EBR-LCM3-1DD is a Lighting Control Module that forms an excellent option where three individually addressable output channels are required with a non-dimming channel.

The EBR-LCM3-1DD forms part of CP Electronics RAPID lighting control system and provides three individually addressable output channels that independently dim rows of DALI / DSI fluorescent or LED luminaires. An additional switched output is provided for the control of non-dimming devices such as ventilation or lighting equipment.

Installation and Connectivity

The EBR-LCM3-1DD is designed for ease of installation. There are 4 M6 keyways for fixing to the slab in the ceiling void or channel nut fixings for rod suspension or fixing to cable basket. There is a spacious wiring compartment with rear or side entry cable knock outs for connecting mains and switch inputs. With 3 pluggable outputs each supplying a separate channel of broadcast DALI or DSI and the capacity of up to 22 ballasts per channel, the EBR-LCM3-1DD is the perfect option for many control applications. The 3 addressable outputs also share a relay providing a switched live output for fixed output luminaires and a second relay for emergency test. The 4th output is a Volt Free contact to control a range of external devices such as ventilation or a fixed output white board luminaire.
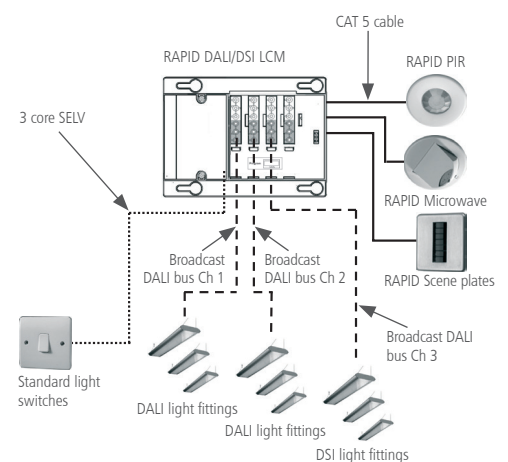
The EBR-LCM3-1DD is an ideal solution for classroom applications with three luminaire rows and a white board with a manual switch dimming. A graduated dimming function is available to allow the window row to dim to 20%, the middle row to 60% and the 3rd row to 90% or 100%.

Interface Flexibility

The EBR-LCM3-1DD also has a total of 11 switch inputs. 6 in the wiring compartment with screw terminals and 7 via an RJ45 port. This allows for multiple switch interface options in relation to each output channel. There are also 2 RJ45 ports for connection of detectors and /or scene plate and also 2 RJ45 ports for CAN BUS networking as part of a full RAPID system (not stand alone).

Key features

- Three addressable outputs
- Independent channel dimming
- Dim fluorescents or LED lamps
- Additional switched output to control non dimming devices
- DALI / DSI Broadcast
- Manufactured in flame retardant material
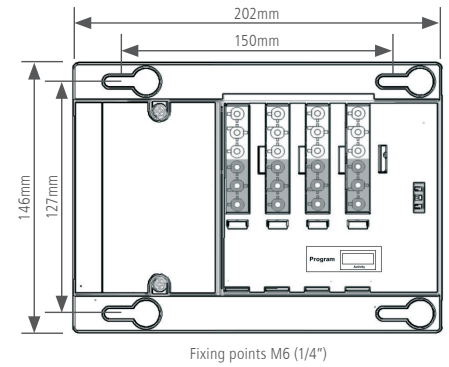- Manufactured in the UK
- 5 year warranty included

Programming simplicity

The EBR-LCM3-1DD also has a number of presets stored within it that allows for various control and switching options. These can be simply selected on site using the UNLCDHS by the installation contractor. Parameters for the detector in the room can also be simply adjusted via the UNLCDHS. This allows for simple set up on site and reduces commissioning time and costs.

Please note that certain applications may require on-site commissioning – consult our technical team for details.

Dimensions

202mm
150mm
146mm
127mm

Fixing points M6 (1/4")

Technical Specification

Electrical data

Weight	0.45Kg
Supply Voltage	220–240VAC +/- 10%
Frequency	50Hz
Relay rating	Switched live 10A Switched permanent live 6A Volt free output (VFC) 6A
Terminal Capacity	Mains - 4mm^2 in wiring compartment Switched inputs and CAN - 2.5mm^2 in wiring compartment
Load per LCM	10A
Load per Channel	6A fluorescent and incandescent lighting 3A compact fluorescent lighting 3A low energy lighting 3A low voltage lighting (switch primary of transformer) 3A fans and ventilation equipment Switch SON lighting loads via a contactor
Dimming	Maximum 22 ballasts per channel (current limit 50mA per channel) Cable lengths for dimming outputs: 100m using 0.5mm^2 wire 150m using 1.00mm^2 wire 300m using 1.5mm^2 wire

Environmental data

Temperature range	-10°C to 35°C
Humidity	5 to 95% non-condensing
Material (casing)	Flame retardant ABS and PC/ABS

Classifications

Insulation	Class II
Purpose	Operating control
Construction	Independently mounted control for surface mounting
Type of action	Type 1.B action micro disconnection
Software class	Class A
Pollution	Degree 2

Compliance

Compliance	EMC-2004/108/EC LVD-2006/95/EC

Order Codes

Control modules	EBR-LCM3-1DD	Pluggable 3+1 channel LCM DALI/DSI dimming – grey connectors
	EBR-LCM3-1DD-B	Pluggable 3+1 channel LCM DALI/DSI dimming – blue connectors
Detectors	EBR-CPIR	RAPID ceiling mounted PIR presence/absence detector
	EBR-MINPIR	RAPID miniature ceiling mounted PIR presence/absence detector
	EBR-MWS3A	RAPID adjustable head microwave presence/absence detector
Scene plate	EBR-4SC	Scene select plate
Accessories	UNLCDHS	Professional commissioning LCD programming handset

UNLCDHS

bsi. ISO 9001 Quality Management FM 45789
ISO 14001 Environmental Management EMS 534520

ESTA
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PM-CPDS-022