MLCM12 - LIGHTING CONTROL MODULE

Casambi-enabled plug-and-play LCM

// 6-pole LCM for simple, fast installation of lighting systems, using industry standard connections
// Works with DALI drivers via Casambi in-built master control
// Keyswitch connection provided, for simple emergency lighting test
// 12A maximum load, 6A per channel
// Luminaires or sensors can be plugged into any main channel
// More than one luminaire can be connected per channel, up to 16 in total
// All sensors to be CBU-PIR or CBU-PIR-CTRL from Mount Lighting
// Case material flame retardant polycarbonate UL94 V0
// Terminal size 4.00mm² (2 x 1.5mm²)
// Designed and manufactured in Great Britain

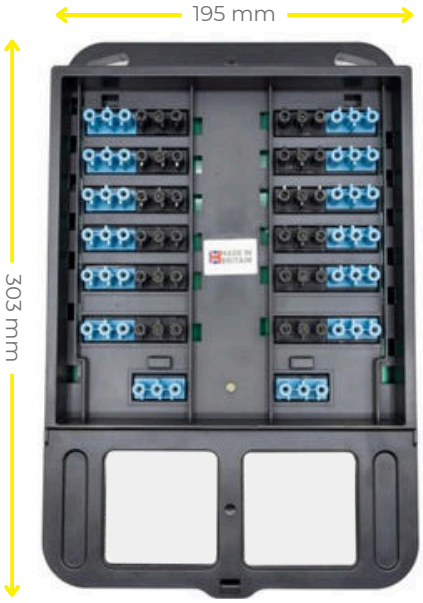
Construction

The robust moulded low profile construction allows for simple single fix installation, and loop in termination of cabling.
Installation template supplied for easy mounting.

Typical Applications

Any lighting installation requiring some level of control, and rapid installation.
Not suitable for external DALI controllers. Single phase only.

Dimensions



Product Code	Description
MLCM12	12 output Lighting Control Module for pluggable Casambi sensor master control
MLCM12C	12 output Lighting Control Module with pre-wired Casambi controller for 8 DALI groups, up to 20 luminaires
MLCM12D	12 output Lighting Control Module with pre-wired Casambi Salvador for individual dimming of 16 DALI luminaires
Ancillary Code	**Description**
CBU-PIR	Casambi PIR for any MLCM - select 3m or 5m lead below (5c)
CBU-PIR-CTRL	Casambi PIR and Master Controller for MLCM12 - select MLC653 or 655 lead below
MLC653L	Pre-wired luminaire lead for non-emergency luminaires - 6 pole 5 core 3m
MLC655L	Pre-wired luminaire lead for non-emergency luminaires - 6 pole 5 core 5m
MLC655T	Splitter lead to power two luminaires from one output - 6 pole 5 core 3m
MLC663L	Pre-wired luminaire lead for emergency luminaires - 6 pole 6 core 3m
MLC665L	Pre-wired luminaire lead for emergency luminaires - 6 pole 6 core 5m
MLC665T	Splitter lead to power two luminaires from one output - 6 pole 6 core 3m

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Example Schematics

MLCM12 - without emergency

Notes

Sensor acts as the master controller for all lights. Alternatively a second sensor can be added for dual channel control.

Splitter leads can be provided, in order to power 4 additional luminaires from one LCM (max. 15 in total)

Accessories

Additional CBU-PIR sensors can be added in place of luminaires if required, but these control the whole LCM output only (or all of one channel if dual channel mode is used)

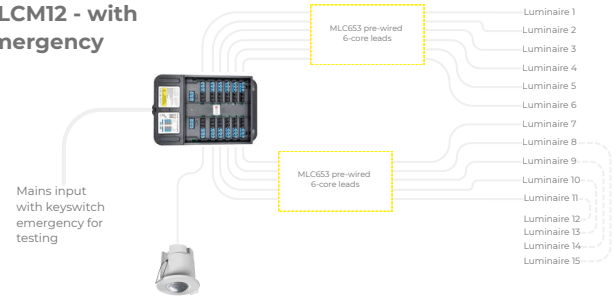
CBU-PIR

Optional ScenePad wireless wallswitch controllers can override PIR control if required.

CBU-SP6

CBU-SP4R

MLCM12 - with emergency



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CBU-PIR

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CBU-SP6

CBU-SP4R

Wiring Diagram - Input

- L / IN - Mains Live In
- SW2/DN - Not Used
- EARTH
- SW1/UP - Not Used

- NEU - Neutral In
- SWA - Live to Group A
- SWB - Live to Group B
- SW2/DN - Not Used

- EARTH - Earth Input
- SW1/UP - Not Used
- L / IN - Duplicate Mains Live In
- M / L - Keyswitch Live In

- GRP B- DALI Minus for Group B
- GRP B+ DALI Positive for Group B
- GRP A- DALI Minus for Group A
- GRP A+ DALI Positive for Group A

Please note that this product can be supplied prewired, in which case no cable connections to the device are necessary.

Wiring Diagram - Output Connectors

- DALI +
- DALI -
- KEYSWITCH LIVE
- NEUTRAL
- EARTH
- LIVE

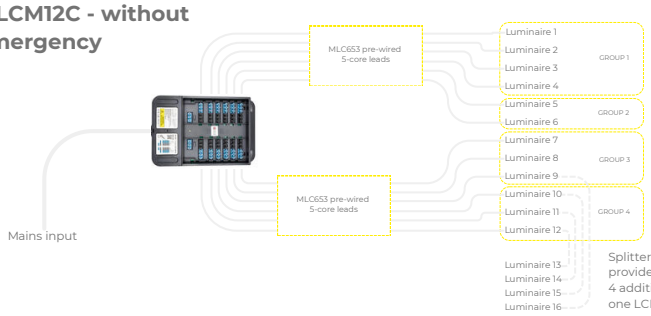
Please note that we can supply pre-wired connection cabling for the lighting

DALI outputs only - not to be used

MLCM12 - LIGHTING CONTROL MODULE

Example Schematics

MLCM12C - without emergency



Notes

Luminaires can be controlled in up to 8 groups, allowing scene setting for different areas.

Splitter leads can be provided, in order to power 4 additional luminaires from one LCM (max. 16 in total)

Accessories

CBU-PIR sensors can be added in place of luminaires if required, but these control the whole LCM output only.

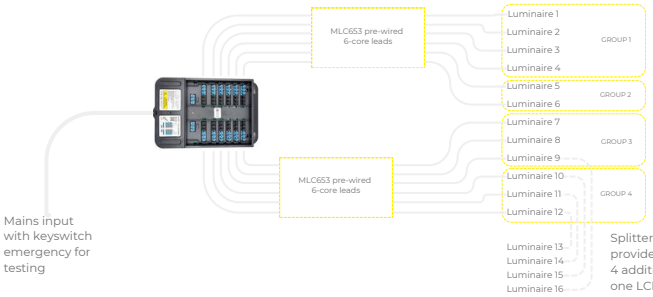
CBU-PIR

Optional ScenePad wireless wallswitch controllers can override PIR control if required

CBU-SP6

CBU-SP4R

MLCM12C - with emergency



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CBU-PIR

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CBU-SP6

CBU-SP4R

Wiring Diagram - Input

KEYSWITCH LIVE
NEUTRAL
EARTH
LIVE

Please note that this product can be supplied prewired, in which case no cable connections to the device are necessary.

Wiring Diagram - Output Connectors

DALI +
DALI -
KEYSWITCH LIVE
NEUTRAL
EARTH
LIVE

Please note that we can supply pre-wired connection cabling for the lighting

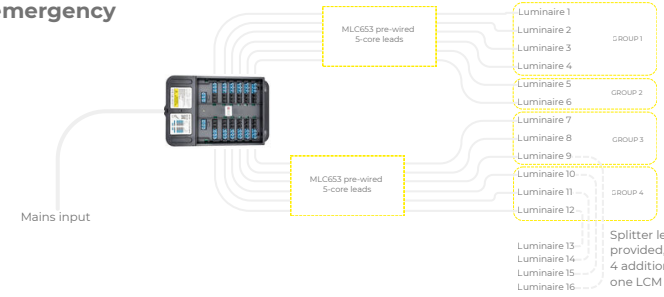
DALI outputs only - not to be used

LIGHTING THE WAY

MLCM12 - LIGHTING CONTROL MODULE

Example Schematics

MLCM12D - without emergency



Notes

Luminaires can be grouped together in any format, the same as standard Casambi products.

Full Casambi functionality is available on each luminaire.

Splitter leads can be provided, in order to power 4 additional luminaires from one LCM (max. 16 in total)

Accessories

CBU-PIR sensors can be added in place of luminaires if required.

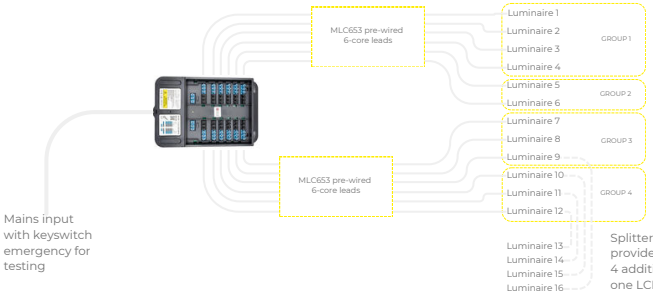
Optional ScenePad wireless wallswitch controllers can override PIR control if required

CBU-PIR

CBU-SP6

CBU-SP4R

MLCM12D - with emergency



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Optional ScenePad wireless wallswitch controllers can override PIR control if required

CBU-PIR

CBU-SP6

CBU-SP4R

Wiring Diagram - Input

KEYSWITCH LIVE
NEUTRAL
EARTH
LIVE

Please note that this product can be supplied prewired, in which case no cable connections to the device are necessary.

Wiring Diagram - Output Connectors

DALI +
DALI -
KEYSWITCH LIVE
NEUTRAL
EARTH
LIVE

Please note that we can supply pre-wired connection cabling for the lighting

DALI outputs only - not to be used

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Installation Instructions

WARNING 230v AC
The connections of this equipment should be made by a suitably qualified person in accordance with current wiring regulations.

Electrical Connections

Screw terminations are provided in the wiring aperture underneath the cover, for power supply connections.

Appropriate means of supply disconnection and overcurrent protection should be provided externally to the MLCM, by the installer.

The cover of the wiring aperture is removed by inserting the blade of a flat screwdriver into the catch and applying light pressure on the handle towards the output connectors on the MLCM, whilst lifting the outside edge of the cover.

The cable entries for the 200mm conduit, bushes or glands are semi-pierced in the end wall of the wiring aperture, and can be knocked out carefully using a flat bladed screwdriver and small hammer. Alternatively these can be removed with a 20mm hole saw.

A cable gland must be used to provide a strain relief if the cabling is not routed into the MLCM via a conduit or trunking.

Fixing

The MLCM should be sited on a flat, smooth surface using the 2no fixing flanges located at the end of the LCM, and the 2no fixing holes located in the wiring aperture.

It is not generally advised for the MLCM to fixed using rod suspensions. This can be achieved, if the fixing is substantial enough to withstand the action of plugging or unplugging the connectors without damage to the MLCM, and whilst ensuring that latching is engaged correctly.

Wiring for Emergency Lighting

The Maintained Live connection is routed to the main luminaire and PIR outputs.

If Emergency Lighting functionality is not being used, the maintained live terminal must be linked to the Live In terminal with a 4.0mm² core.

Notes

Any of the main 12 no. 6-pole outlets may be used for any luminaire or sensor. Sensors can also be powered by other means if required.

When a CBU-PIR-CTRL is used as master controller, the internal fuse for the DALI circuit must be removed.

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