CP electronics VITP7-MB Lighting Control Module Installation Guide

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CP Electronics VITP7-MB Lighting Control Module

Product Information:

- **Product Name:** VITP7-MB, VITP7-MB-DD Lighting control module (LCM)
- **Model Numbers:** VITP7-MB, VITP7-MB-DD
- **Product Type:** Lighting control module

WARNING: This device should be installed by a qualified electrician in accordance with the latest edition of the IET wiring regulations.

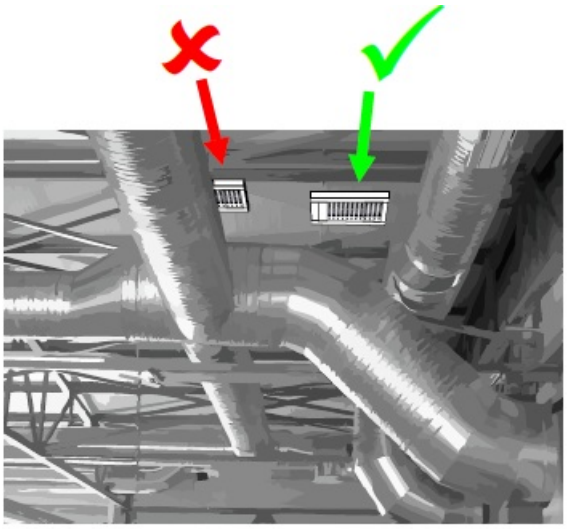
Product Features:

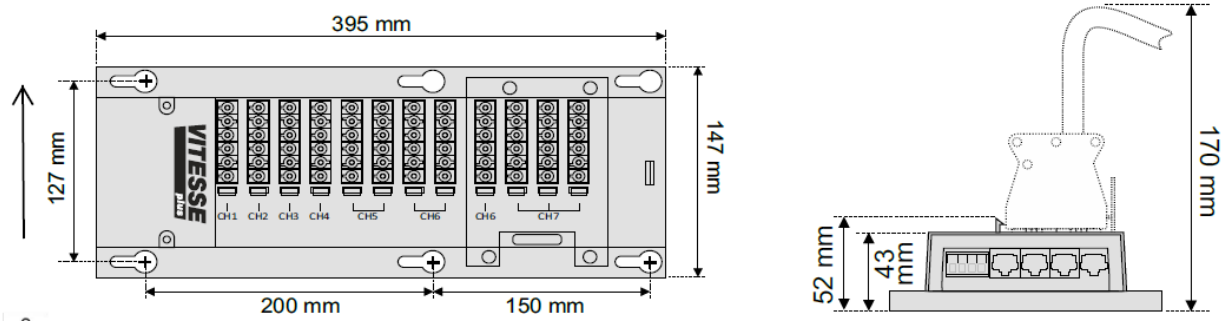
- Designed to be ceiling-mounted.
- 18 switch connections in the wiring compartment.
- Can supply power to a maximum of either 3 microwave detectors or 6 PIR detectors.
- Can connect combinations of microwave and PIR detectors.
- Compatible with dimming luminaires.

Product Usage Instructions:

Positioning:

- Install the device in the position shown on the installation drawings, if possible.
- Ensure that the installation complies with relevant Building Regulations and the latest IET Wiring Regulations (BS7671).
- Fix the box on a smooth, flat surface or using drop rod fixings. Optional track fixings can also be used.
- Ensure easy access to the wiring compartment and all connectors once the box is in place. Allow 170mm for the total height of the installed unit including connectors and cable.
- Ensure that LCMs face downwards and are clear of obstructions for accessibility and visibility.



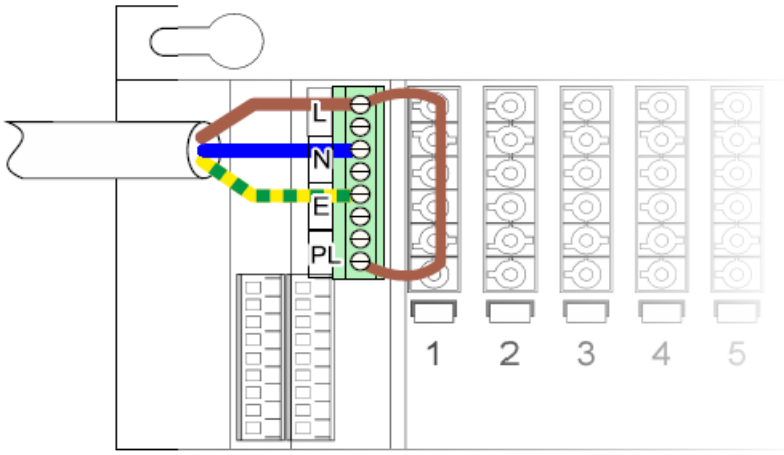


Install this way up: The unit MUST be installed this way up to ensure good lock of cable plug to socket.

Power Connections:

- Connect the live terminal L to the maintained live PL.
- Refer to the provided letter-color description for power connection details.

Letter	Colour	Description
L	Brown	Live/ phase
B	Blue	Neutral
E	Green/yellow	Earth/ground
PL	Brown or black	Permanent live



Inrush Current:

- Do not connect more than 36 LED drivers per LCM.

- For Channels 1-4, do not connect more than 3 LED drivers each.
- For Channel 5, do not connect more than 6 LED drivers (3 per output).
- For Channel 6, do not connect more than 9 LED drivers (3 per output).
- For Channel 7, do not connect more than 9 LED drivers (3 per output).
- **Note**: If other channels are not used, up to a maximum of 5 LED drivers may be connected to a single 6-pole output, as long as the electrical loading, inrush rating, and/or maximum LED driver allowance is not exceeded.

Based on testing using Tridonic LCAI 10W 150 mA-400mA ECO C LED driver (Tridonic Article Number 28000130). Up to a maximum of 80A of Inrush current per output channel for no more than 10 mS. The following maximum number of LED drivers can be connected to VITP7-MB and VITP7-MB-DD. Alternative LED drivers may have larger inrush and will need to be de-rated accordingly. Check with the luminaire manufacturer. CP Electronics accept no responsibility for checking and applying suitable de-rating factors for LED loads.

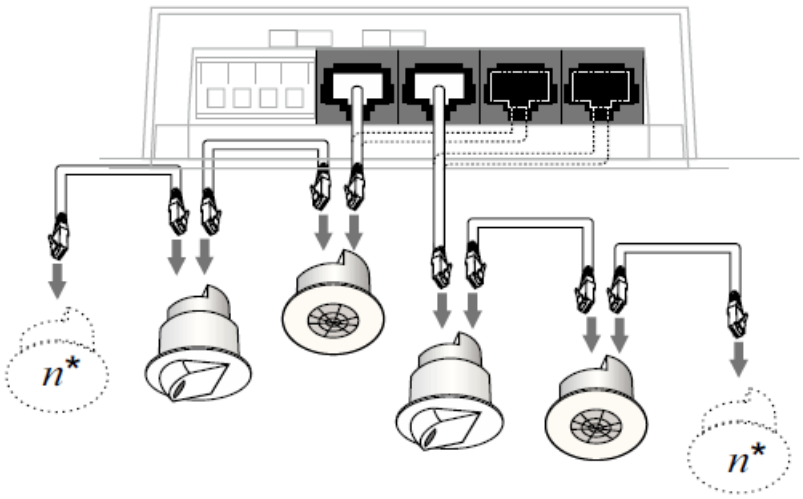
Switch Connections:

- The LCM has 18 switch connections in the wiring compartment.
- Refer to the preset diagrams in the VITP7 system manual for details on how to connect switches.
- The length of cable between switches and LCMs should not exceed 40 meters.

The LCM has 18 switch connections in the wiring compartment. Refer to the preset diagrams in the VITP7 system manual for details on how to connect switches. The length of cable between switches and LCMs should not be more than 40 metres.

Detector Connections:

- Connect all detectors before programming the LCM.
- Connect the detectors to each other using RJ45-RJ45 patch leads (part number EBS-PC5M).
- The LCM can supply power to a maximum of either 3 microwave detectors or 6 PIR detectors.
- You can connect combinations of microwave and PIR detectors, but there are power limitations:
  - If you connect 1 microwave detector, you can have a maximum of 4 PIRs.
  - If you have 2 microwave detectors, you can have a maximum of 2 PIRs.

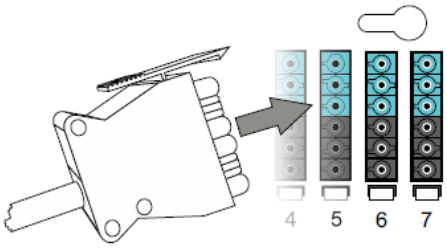


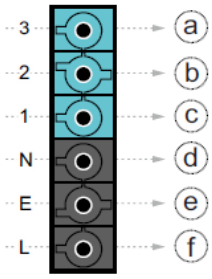
The power used by 1 microwave detector is the same as that used by 2 PIR detectors. These LCMs can supply power to a maximum of either 3 microwave detectors or 6 PIR detectors. You can connect combinations of

microwave and PIR detectors, but this power limitation means that if you connect 1 microwave detector you can only have a maximum of 4 PIRs; if you have 2 microwave detectors you can have a maximum of 2 PIRs.

Luminaire Connections:

- Plug in the luminaires ensuring that the connector latches to the box.
- Pre-wired luminaire leads are available. Please contact our sales office for details.
- For per-luminaire energy measurement, connect one light fitting only per pluggable output.
- Refer to the provided letter-color description for luminaire connection details.



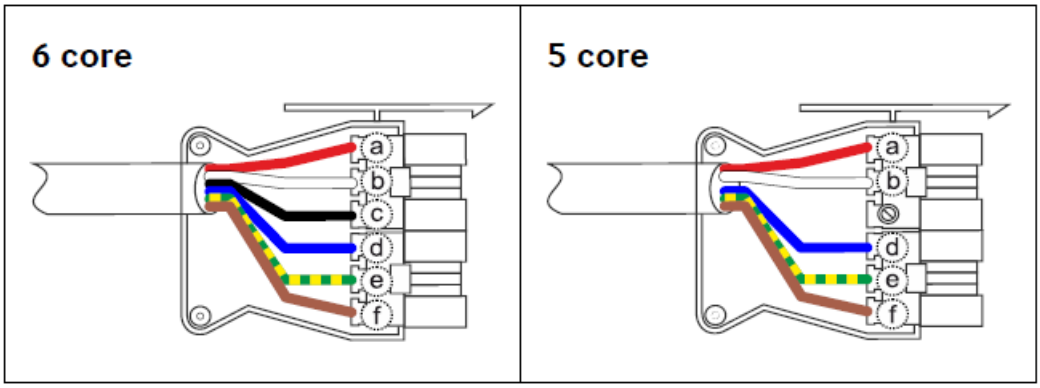


Letter	Colour	Description
a	Red	Dim +ve
b	White	Dim -ve
c	Black	Permanent live
d	Blue	Neutral
e	Green/yellow	Earth
f	Brown	Switched output

Dimming Luminaire

These connections are suitable for devices such as:

- l DALI/DSI dimmable emergency luminaire with switched live
- l DALI/DSI Dimmable nonemergency luminaire



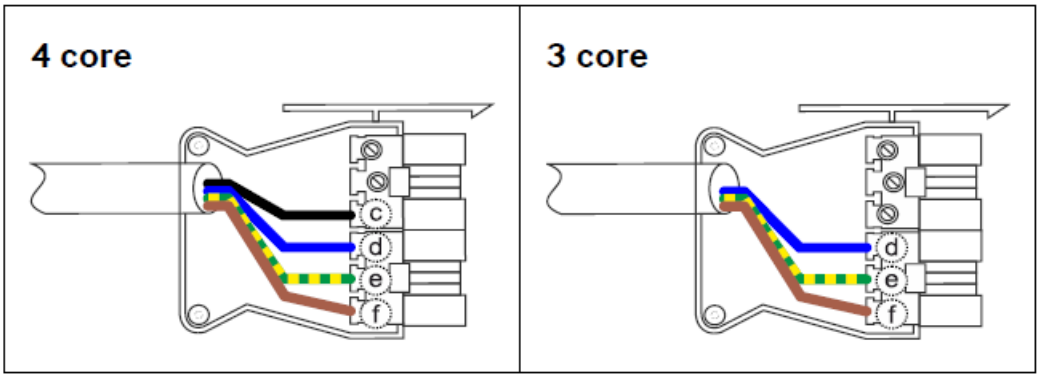
Key

- **a**. red
- **b**. white
- **c.** black
- **d**. blue
- **e**. green/yellow
- **f**. brown

Non-dimming Luminaire

These connections are suitable for devices such as:

- l Non-dimmable ON/OFF emergency luminaire
- l Non-dimmable nonemergency luminaire



Key

- **a**. –
- **b**. –
- **c**. black
- **d**. blue
- **e**. green/yellow
- **f**. brown

TECHNICAL DATA

Weight kg	1
Supply voltage AC at 50Hz	230 +/- 10%
Power consumption ON W	9.1
Power consumption OFF W	5.8
Terminal capacity	Mains 4mm²; switched inputs 1.5 mm²
Max load (total for LCM – switching d evices)	10 A
Max load (per channel – switching devices):	
– Incandescent lighting	6 A
– Fluorescent lighting	6 A
– Compact fluorescent lighting	3 A
– LED lighting	3 A

– Low voltage lighting (switch primar y of transformer)	3 A
– Switch SON lighting loads via a con tactor	
– Fans and ventilation equipment	3 A
Max load (total for LCM – dimming devices)	10A from up to 36 drivers / ballasts (see page 2 for inrush)
SELV	There are 3 isolated circuits supplied from an isolating safety transformer. SELV rated Logic power (relay drive, microcontroller, CAN bus) has a maximum voltage of 13V. SELV inputs have a maximum volt age of 5.5V. The Non SELV circuitry of the dimming outputs is 16V nominal and 22.5V maximum.
Insulation	Class II
Purpose	Operating control
Construction	Independent, surface mounted, electronic control
Type of action	Type 1.B action (micro disconnection)
Pollution	Degree 2
Software	Class A
Rated impulse voltage	2500 V
Operational temp. ºC	-10 to 35
Humidity	5 to 95% non-condensing
Material (casing)	Flame retardant ABS and PC/ABS
IP rating	40
Compliance	EMC-2014/30/EU, LVD-2014/35/EU

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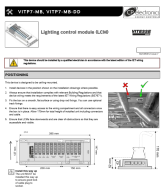
Documents / Resources

	CP electronics VITP7-MB Lighting Control Module [pdf] Installation Guide VITP7-MB Lighting Control Module, VITP7-MB, Lighting Control Module, Control Module

References

- CP Electronics | Brands | Legrand United Kingdom