

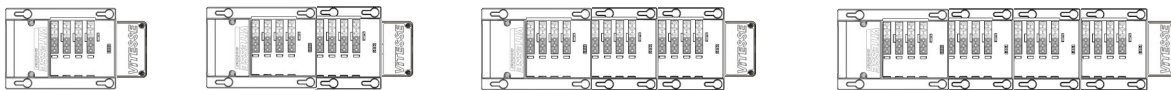
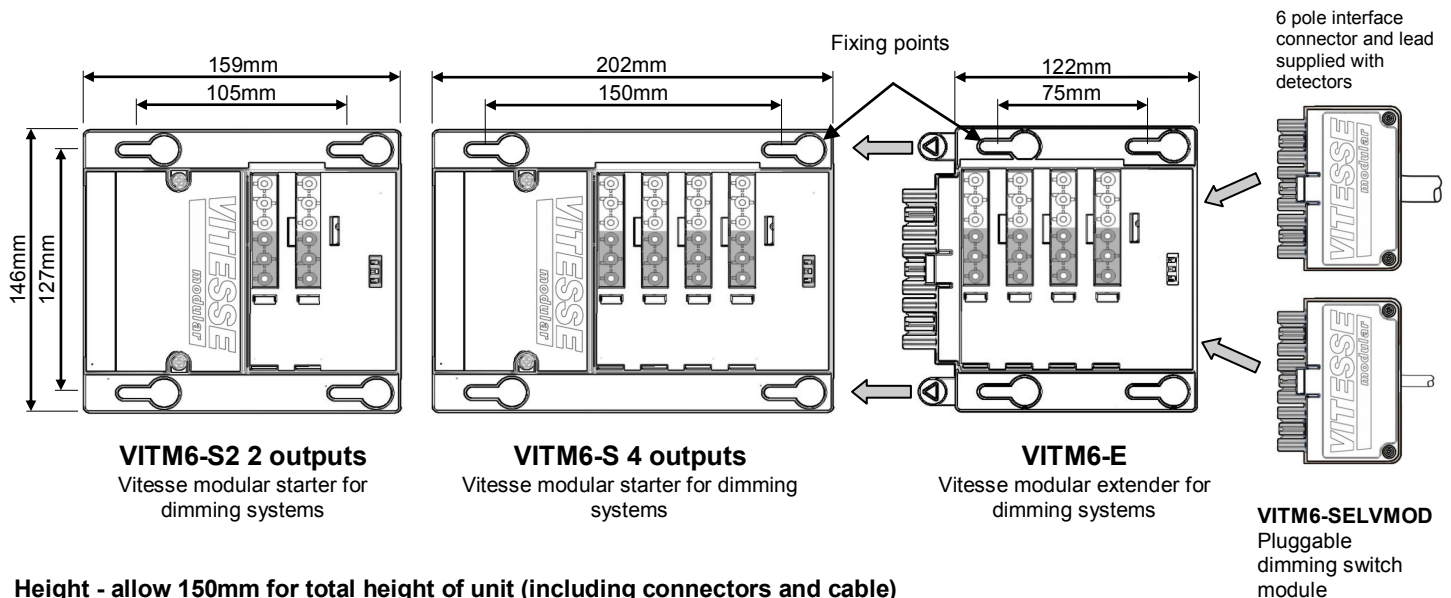
VITM6

Vitesse Modular 6 - Dimming Modules

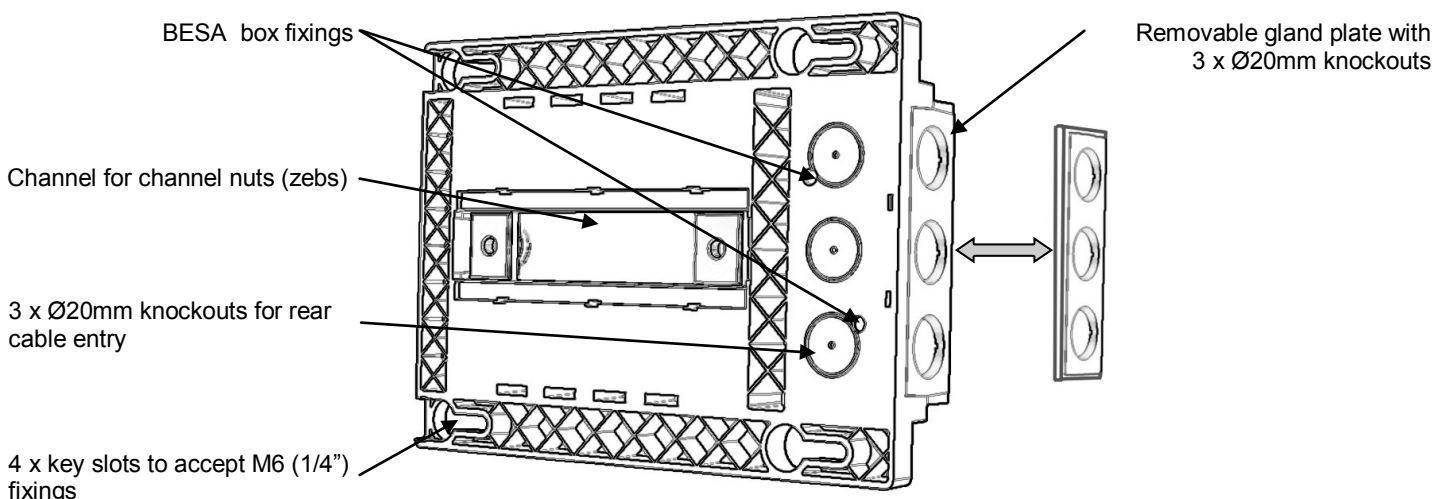
Overview

The Vitesse modular system is a cost effective method of providing power and control for lighting installations in industrial, commercial and retail buildings. The system is designed for ease of installation: mains input is connected using the spacious wiring compartment; control inputs and outputs are pluggable using industry standard connectors. The modular approach allows for between 2 and 16 luminaires to be connected. The VITM6 is for use with dimming luminaires. The VITM6-SELVMOD converter provides SELV switch inputs to allow digital dimming whilst also overcoming the requirements of the IEE 17th edition wiring regulations cost effectively.

System Components



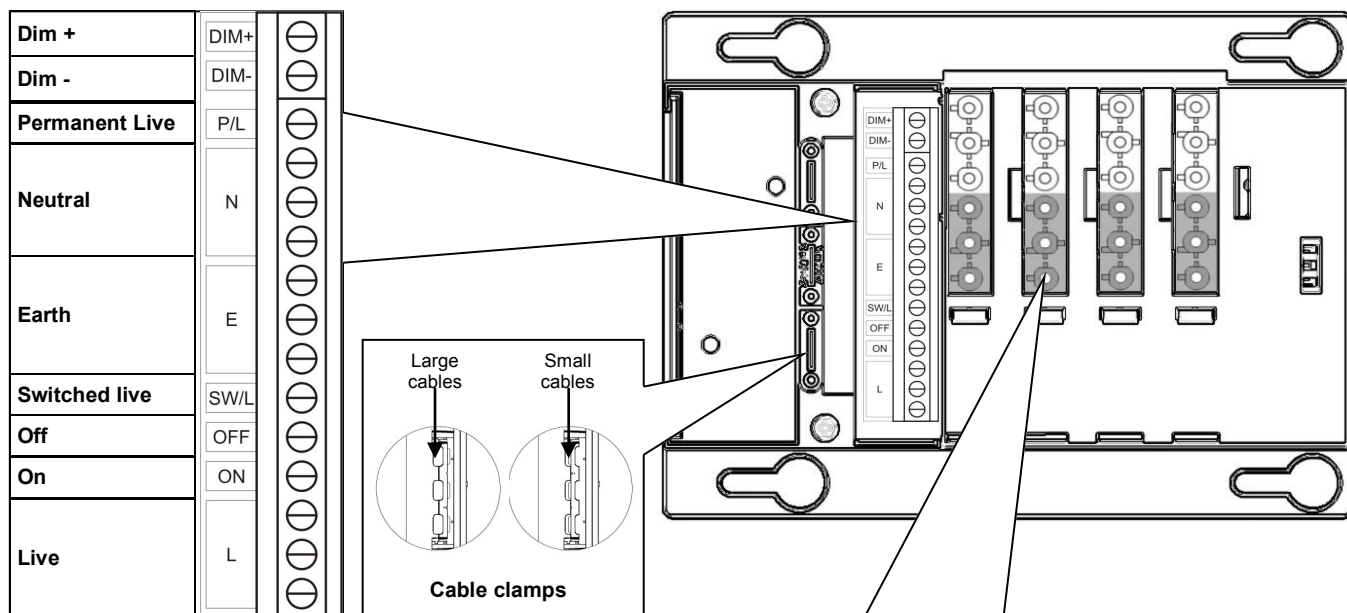
Installation



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

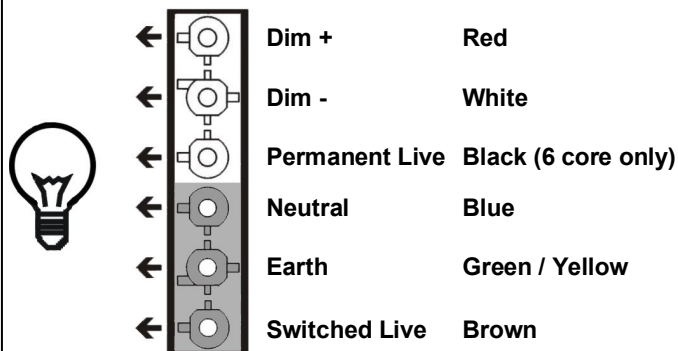
- The box should be fixed on a smooth, flat surface or using drop rod fixings attached to channel nuts.
- Ensure that there is easy access to the wiring compartment and all connectors once the box is in-situ.

Wiring

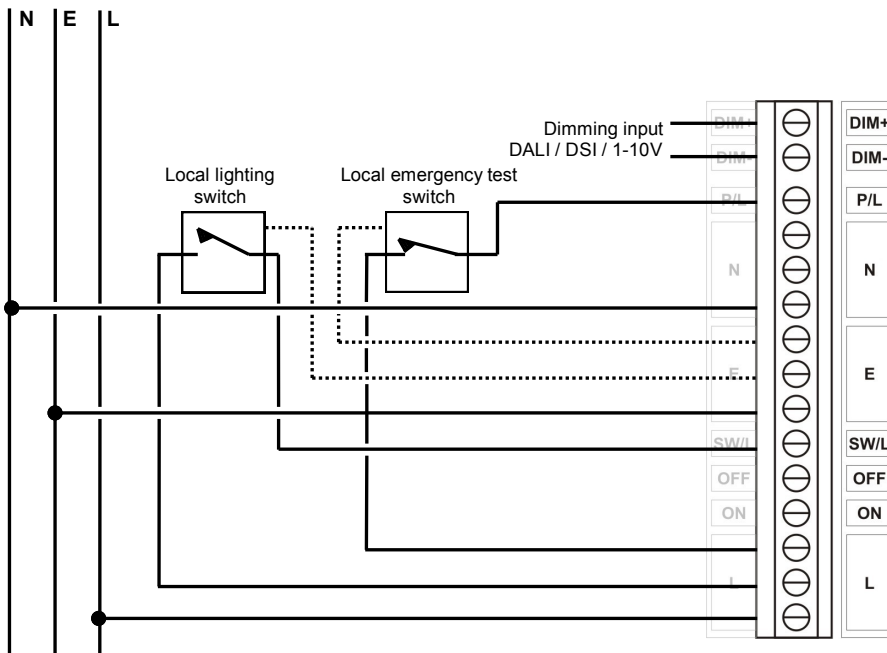


- All wiring should be mains rated.
- Remove wiring compartment cover.
- Wire the box using the diagrams opposite
 - Permanent live** feeds emergency fittings
 - Off/On** connects switches through to detectors
 - Switched live** turns the lights on and off
- Use the cable clamps to secure the wiring or use cable glands (not supplied). The clamps can be split, and flipped over to clamp different cable diameters.
- Replace wiring compartment cover.
- Plug in the luminaires ensuring that the connector latches to the box.

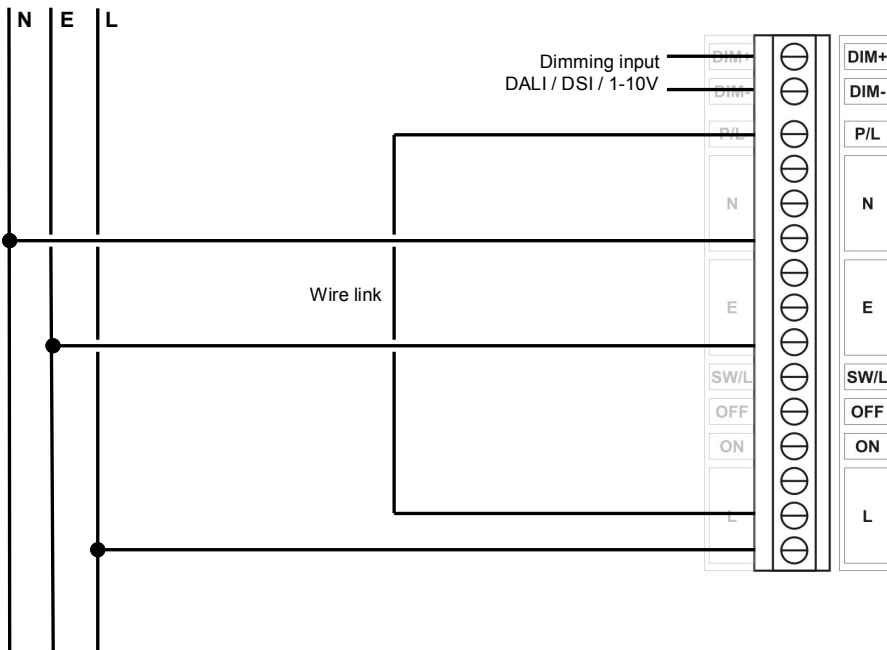
Luminaire connections / Lead colours



Local lighting switch and local emergency test switch



Emergency test using power interruption



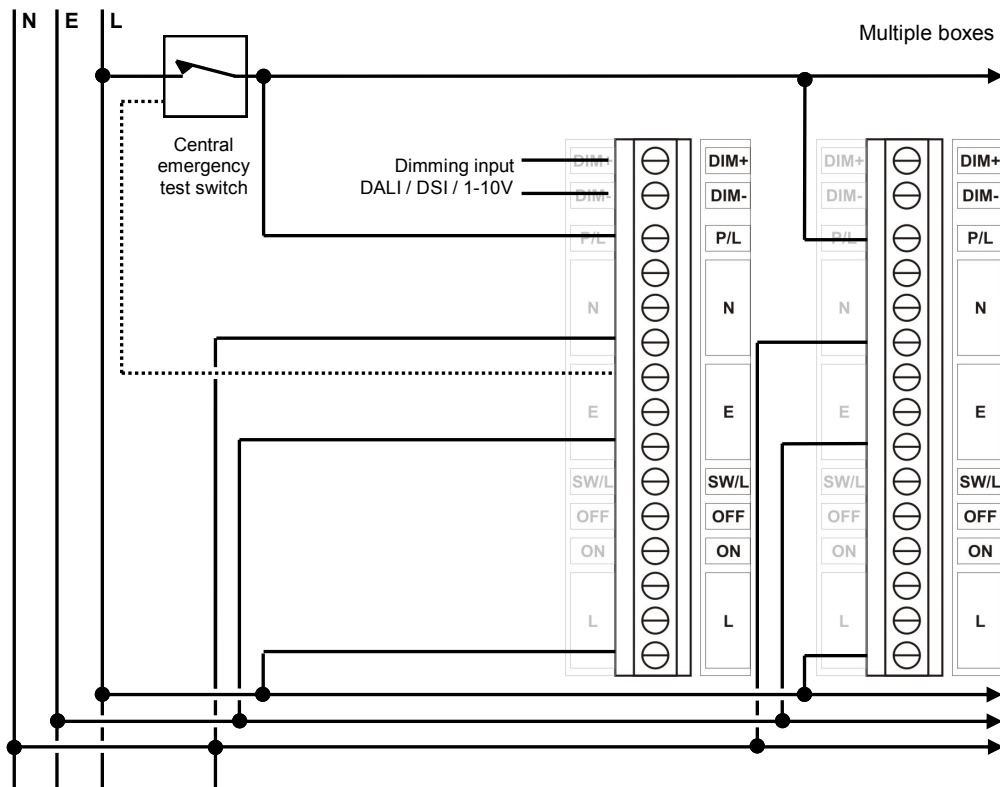
A local lighting switch may still be used when there is a central emergency test switch or when a circuit breaker is used to interrupt the power.



DO NOT WIRE ACROSS PHASES

Wiring & Emergency Test

Emergency test using central switch



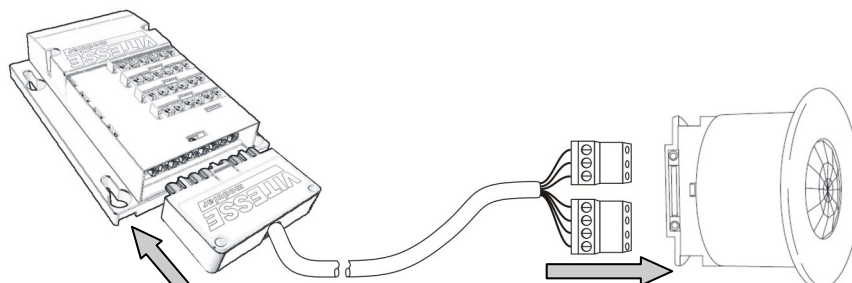
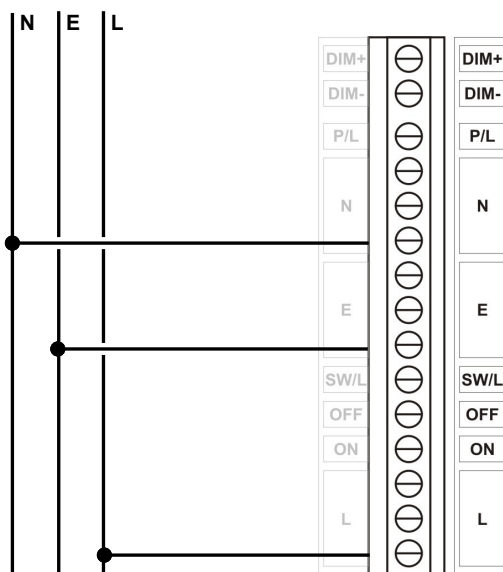
A local lighting switch may still be used when there is a central emergency test switch.



DO NOT WIRE ACROSS PHASES

Presence detector connections - no switches

Automatic on, automatic off

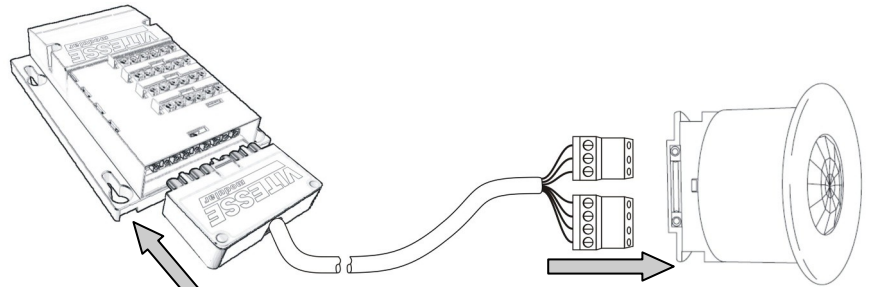
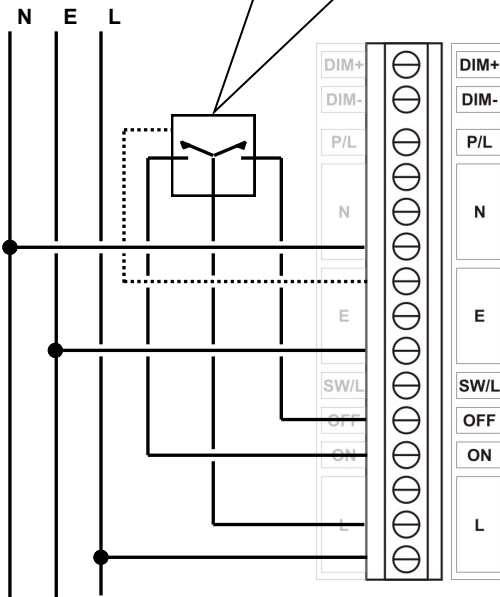


Detector lead supplied with detector.
Where multiple detectors connect to a single
box a dual lead is available VITM6-LD3-DD.

Sensor

Absence/presence detector connections - with switches

- Centre biased retractive wall switch (part no. MK K4900 or equivalent).
- Press and release to provide On/ Off switching; press and hold to provide Up / Down dimming.



Detector lead supplied with detector.
Where multiple detectors connect to a single box a dual lead is available VITM6-LD3-DD.

Sensor

Switch operation

- Up position
 - Short press on
 - Long press dimming level up
- Down position
 - Short press off
 - Long press dimming level down



DO NOT WIRE ACROSS PHASES

VITM6-SELVMod Dimming Module

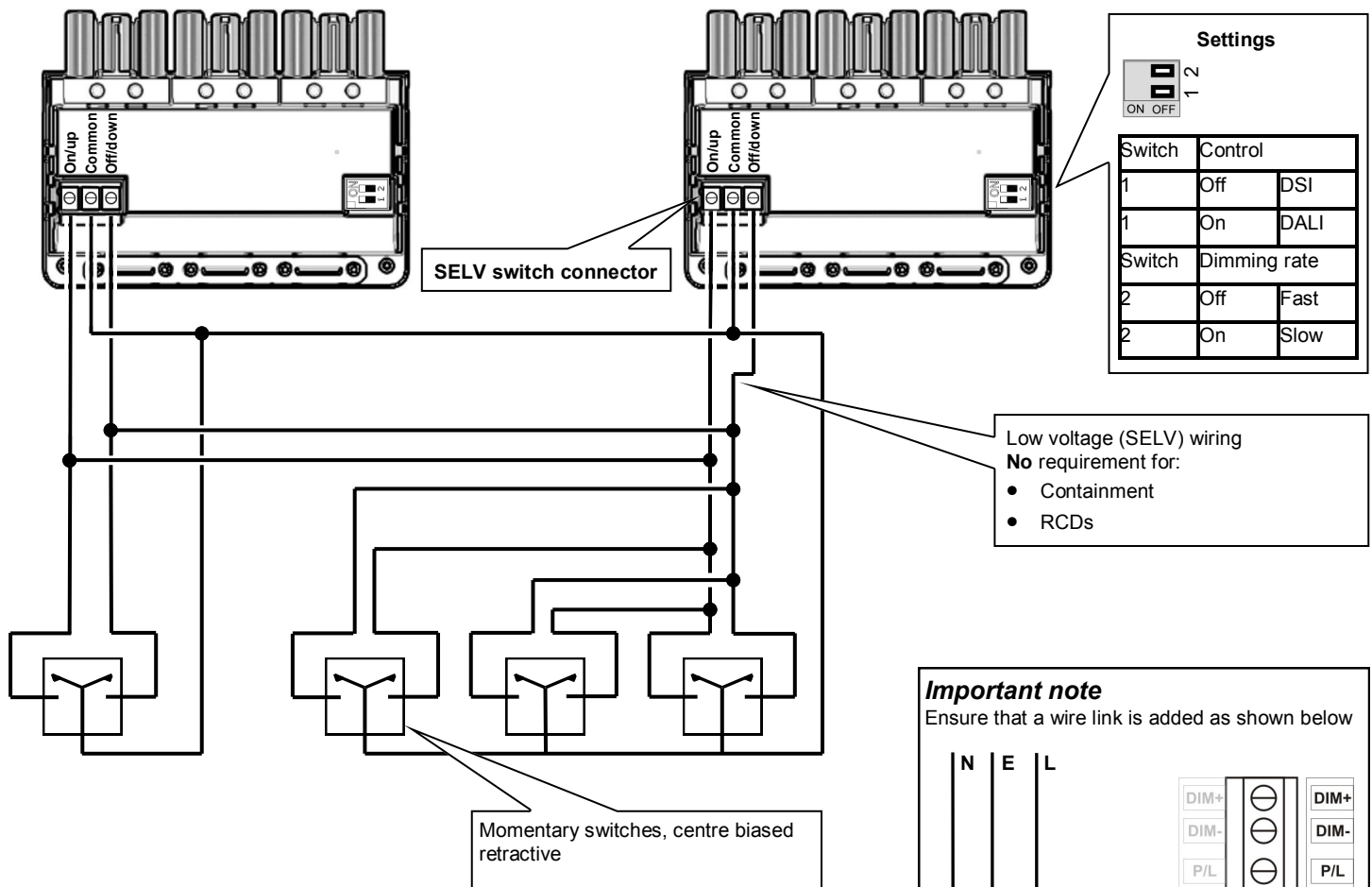
Features

- No mains voltage switch wires routed along walls removes the need for RCD protection under the IEE 17th Edition regulations.
- The VITM6-SELVMod module allows switches in parallel for 2-way and intermediate switching.
- The same switch can be used when multiple Vitesse Modular boxes are connected to different phases.
- Selectable for DALI or DSI digital dimming control. Luminaires must be fitted with suitable dimming ballasts; up to 20 ballasts can be controlled.
- Two speeds of dimming rate selectable.

Operation

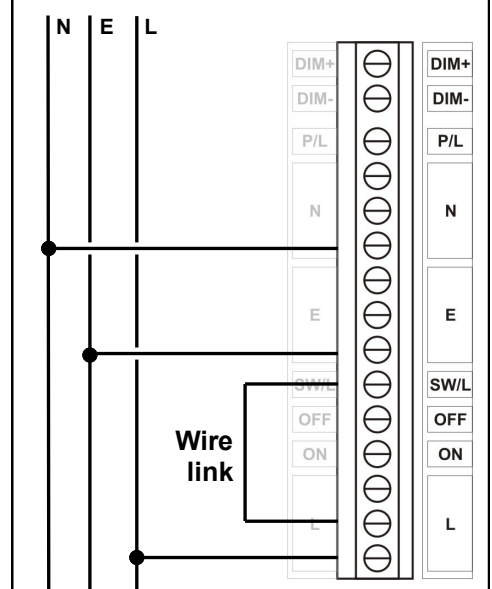
- Up button
 - Short press on
 - Long press dimming level up
- Down button
 - Short press off
 - Long press dimming level down

Wiring Diagram



Important note

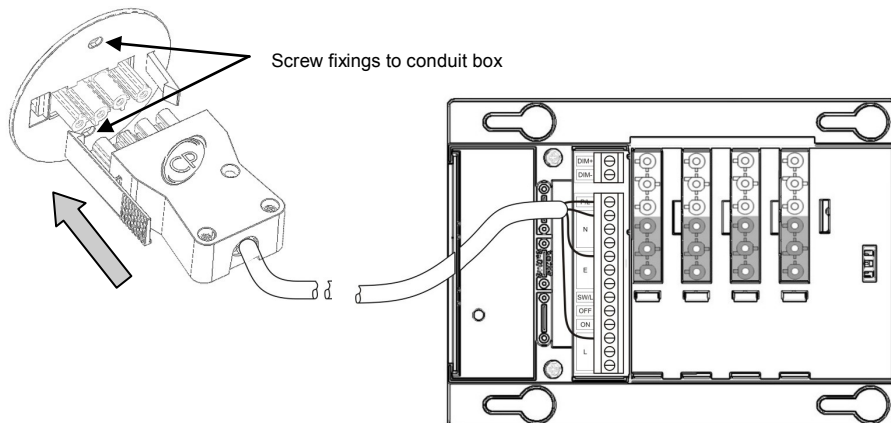
Ensure that a wire link is added as shown below



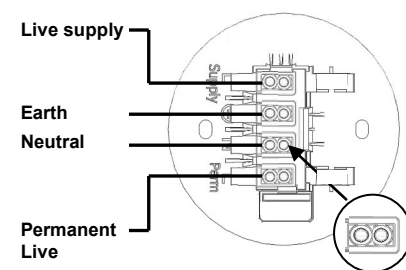
Ceiling rose / conduit box connection

Conduit box to VITM6-S mains wiring

Use a VITM-ROSE when there is a need to take power from a conduit box. Plug the connector into the VITM-ROSE and wire the other end of the lead into the terminals of the VITM6-S. A pre-wired version is available, VITM6-SL1.

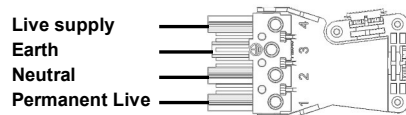


VITM-ROSE mains wiring



Each pole has **two** screw terminals.
Each terminal accepts 1 x 2.5mm²

VITM-ROSE connector wiring



Part numbers

Modules

Blue & black connectors

BVITM6-S	6 pole starter box 4 outputs
BVITM6-S2	6 pole starter box 2 outputs
BVITM6-E	6 pole extender box 4 outputs
BVITM6-SL1	6 pole starter box + 1m lead + ceiling rose
BVITM6-SD5	Pre-wired corridor module + 5m of cable

Grey & black connectors

VITM6-S	6 pole starter box 4 outputs
VITM6-S2	6 pole starter box 2 outputs
VITM6-E	6 pole extender box 4 outputs
VITM6-SL1	6 pole starter box + 1m lead + ceiling rose
VITM6-SD5	Pre-wired corridor module + 5m of cable

Presence / Absence Detectors

VITM6-EBDSPIR-DD	Direct Dim PIR presence/absence detector
VITM6-MWS3A-DD	Direct Dim Microwave presence/absence detector
VITM6-MWS6-DD	Direct Dim Microwave presence/absence detector
VITM6-EBMPIR-DD	Direct Dim Miniature PIR presence detector

Accessories

VITM6-SELVMOD	SELV dimming switch module
VITM-ROSE	Ceiling rose module

Luminaire Leads (LSF)

Blue & black connectors

BVITM6L503100W	5 core	3m	1.0mm ²	White plug
BVITM6L505100W	5 core	5m	1.0mm ²	White plug
BVITM6L603100R	6 core	3m	1.0mm ²	Red plug
BVITM6L605100R	6 core	5m	1.0mm ²	Red plug

Grey & black connectors

VITM6L503100W	5 core	3m	1.0mm ²	White plug
VITM6L505100W	5 core	5m	1.0mm ²	White plug
VITM6L603100R	6 core	3m	1.0mm ²	Red plug
VITM6L605100R	6 core	5m	1.0mm ²	Red plug

Other leads available to order

Dual Detector Leads (LSF)

VITM6-LD3-DD	3m Direct Dim sensor lead
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Connectors

VITM6-LPW	6 pole luminaire plug white
VITM6-LPR	6 pole luminaire plug red

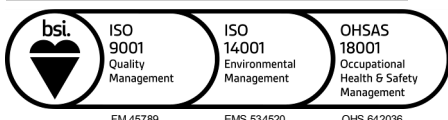
Ratings

Voltage	230VAC +/- 10%
Frequency	50Hz
Terminal capacity	4mm ² in wiring compartment
Temperature	0°C to 35°C
Power	Rating of system 16A. Rating of each output 10A VITM6-SELVMOD—control of up to 20 ballasts
Compliance	BS 5733:1995

For lighting purposes only with suitable circuit protection. For fixed wiring only

IMPORTANT NOTICE!

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



Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.

Ref: #WD290 Issue 8

UK Patent no. GB2463063
EU patent pending
EU registered design no.
001587544-0001, 001587544-0002



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