

BVITM6 and VITM6

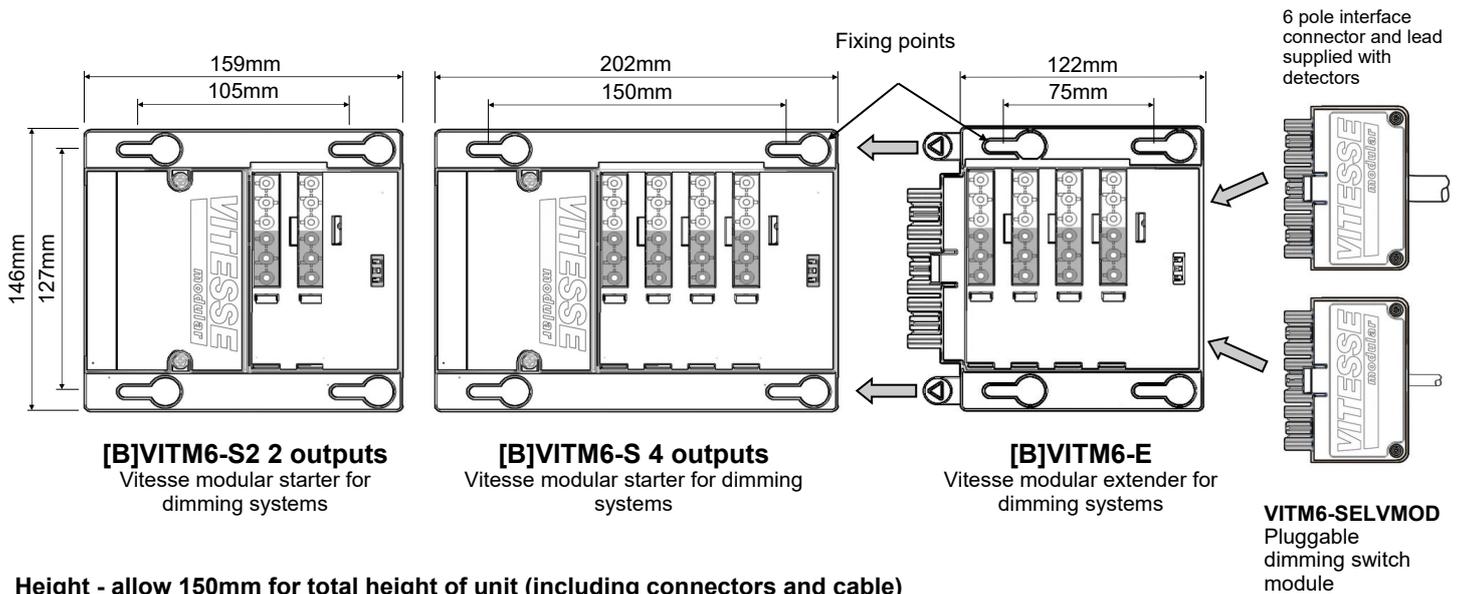
Vitesse Modular 6 - Dimming Modules

Overview

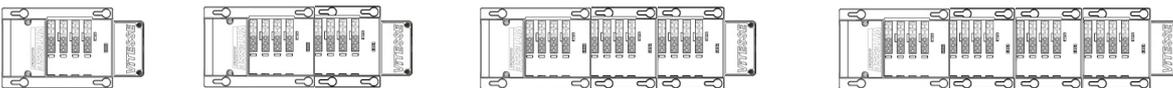
The Vitesse modular system is a cost effective method of providing power and control for lighting installations in industrial, commercial and retail buildings. The system is designed for ease of installation: mains input is connected using the spacious wiring compartment; control inputs and outputs are pluggable using industry standard connectors. The modular approach allows for between 2 and 16 luminaires to be connected. The BVITM6 is for use with dimming luminaires using the Black/Blue connector combination whilst the VITM6 product uses the Black/Grey combination.

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.

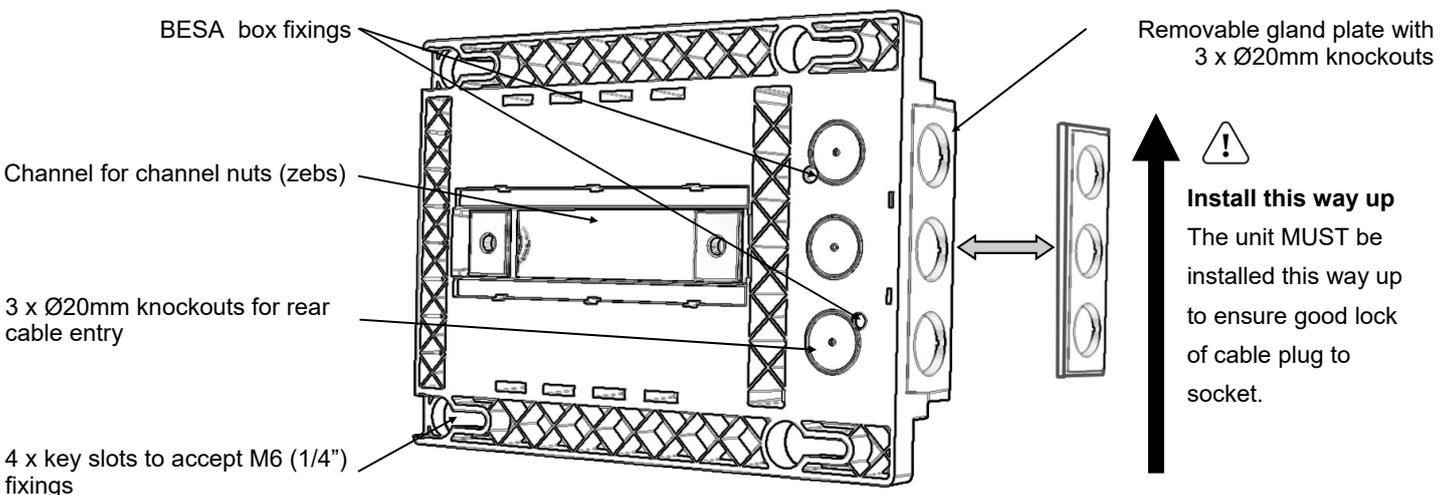
System Components



Height - allow 150mm for total height of unit (including connectors and cable)



Installation

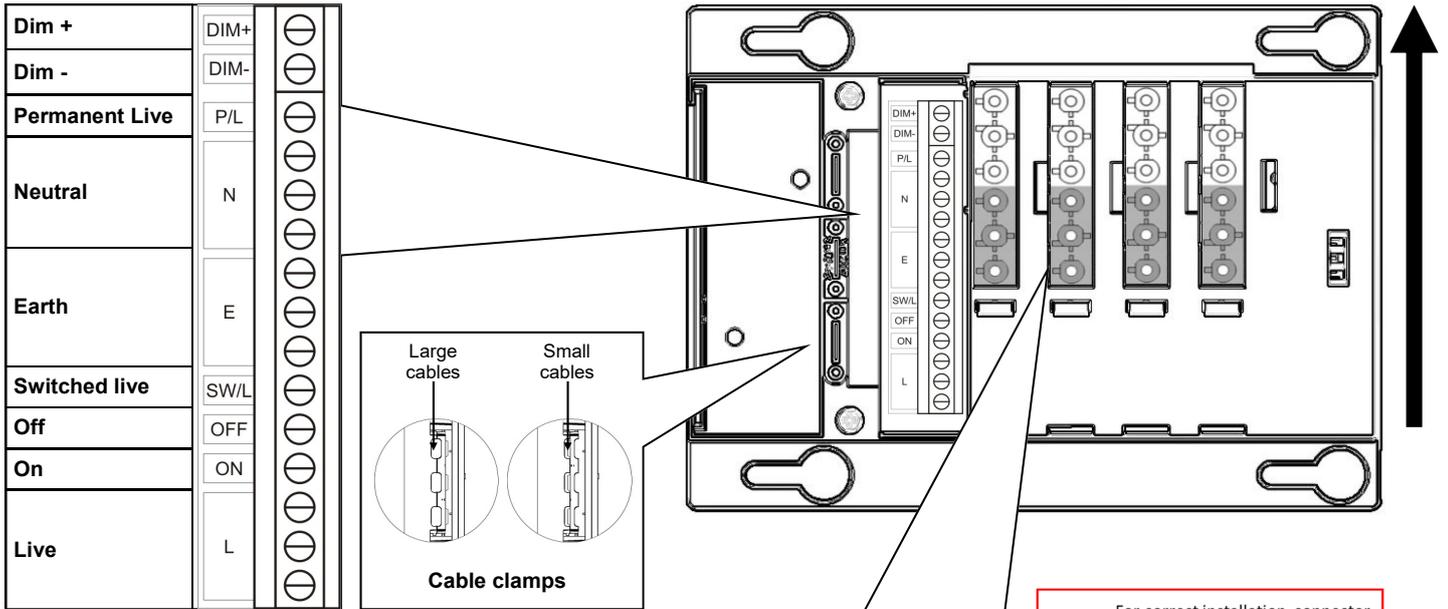


Warning. This device works at mains voltage. Be sure to take care when working with electricity.

- 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

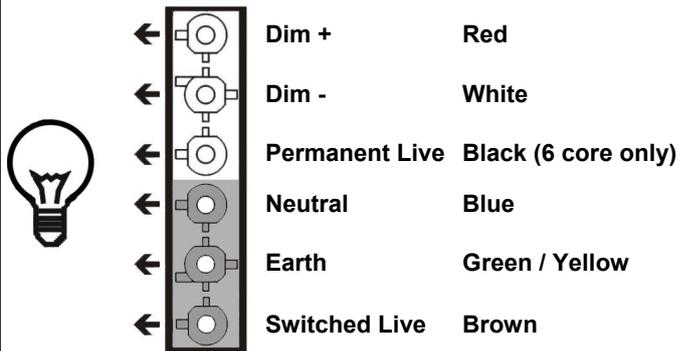
! Install this way up



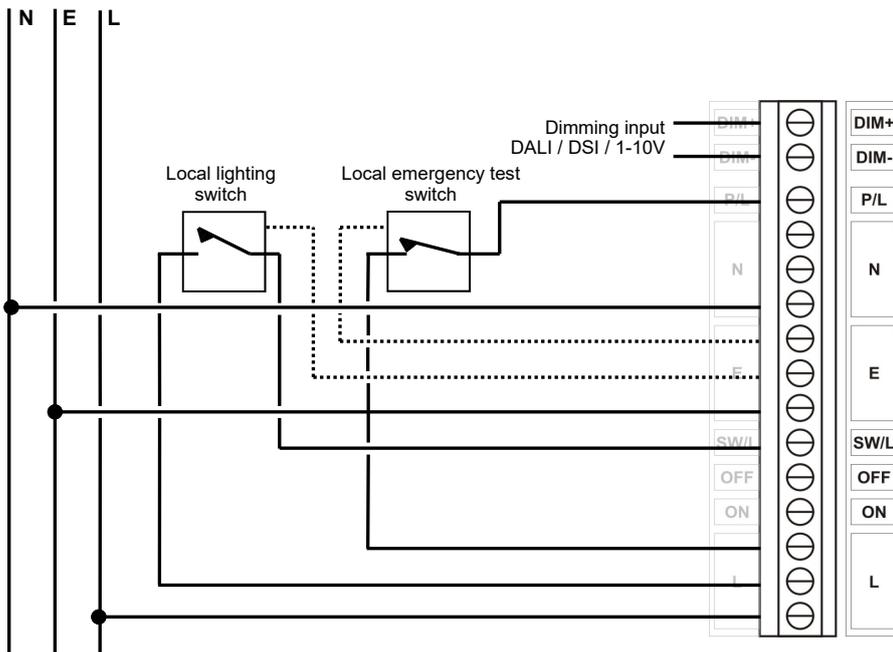
! For correct installation, connector plugs must be fully engaged and latched on both sides.

- 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.
- **Install this way up!** The unit **MUST** be installed orientated as per the arrow to ensure good lock of cable plug to socket!

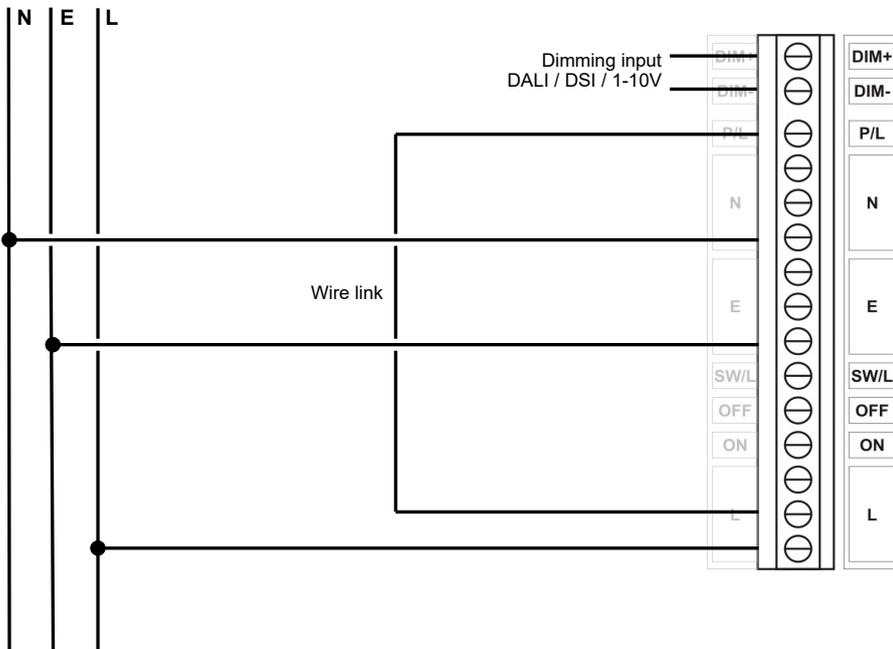
Luminaire connections / Lead colours



Local lighting switch and local emergency test switch



Emergency test using power interruption



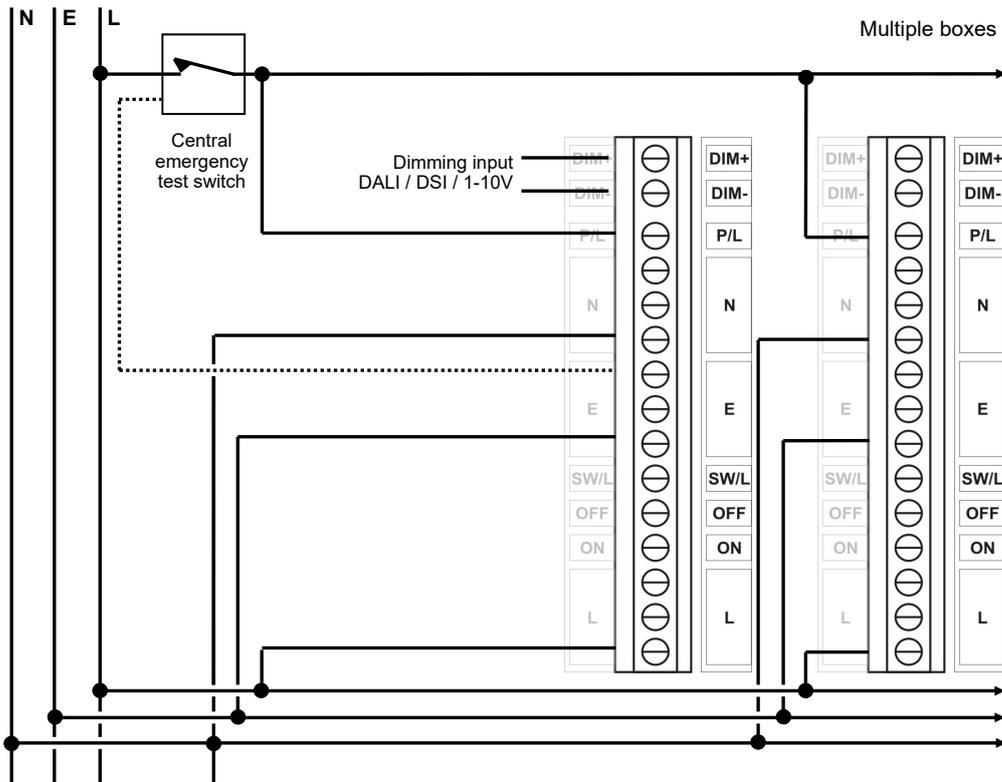
A local lighting switch may still be used when there is a central emergency test switch or when a circuit breaker is used to interrupt the power.



DO NOT WIRE ACROSS PHASES

Wiring & Emergency Test

Emergency test using central switch



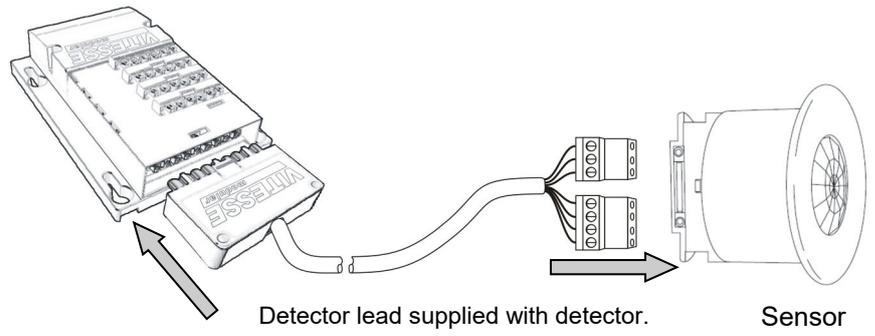
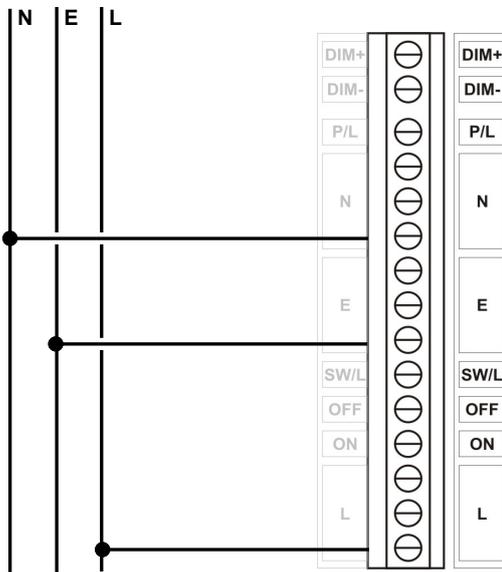
A local lighting switch may still be used when there is a central emergency test switch.



DO NOT WIRE ACROSS PHASES

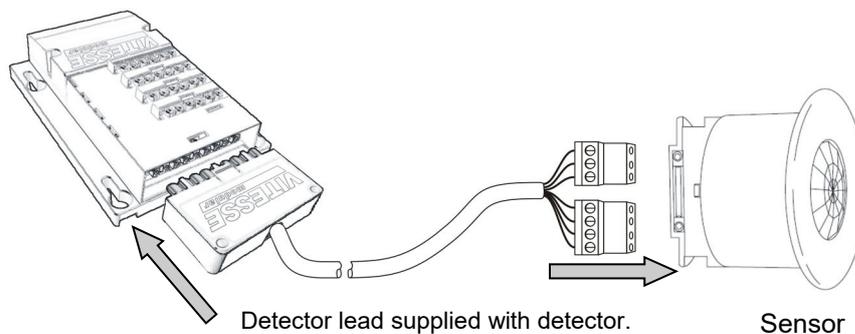
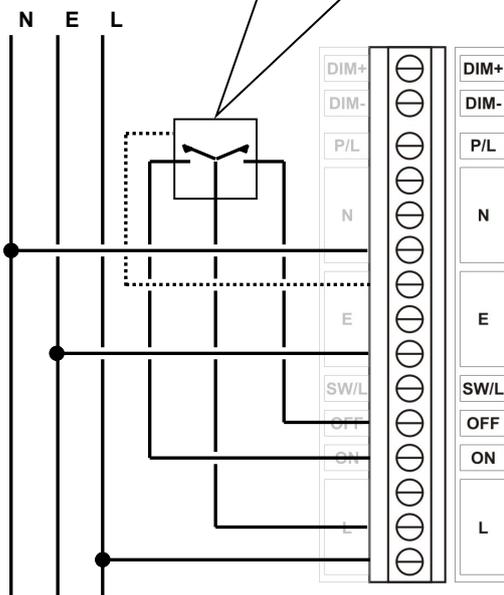
Presence detector connections - no switches

Automatic on, automatic off



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.



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

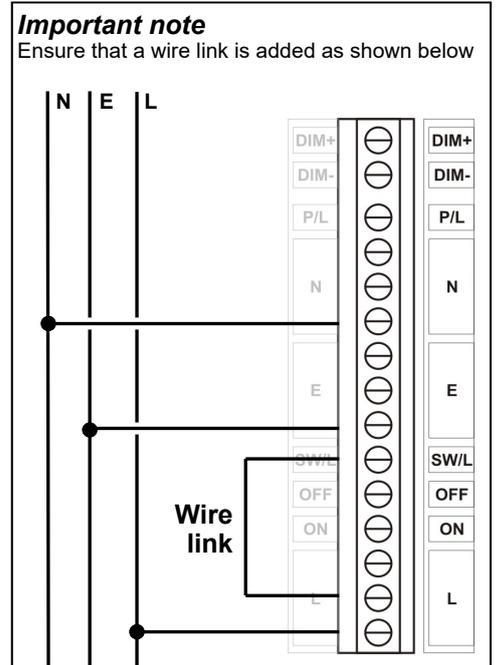
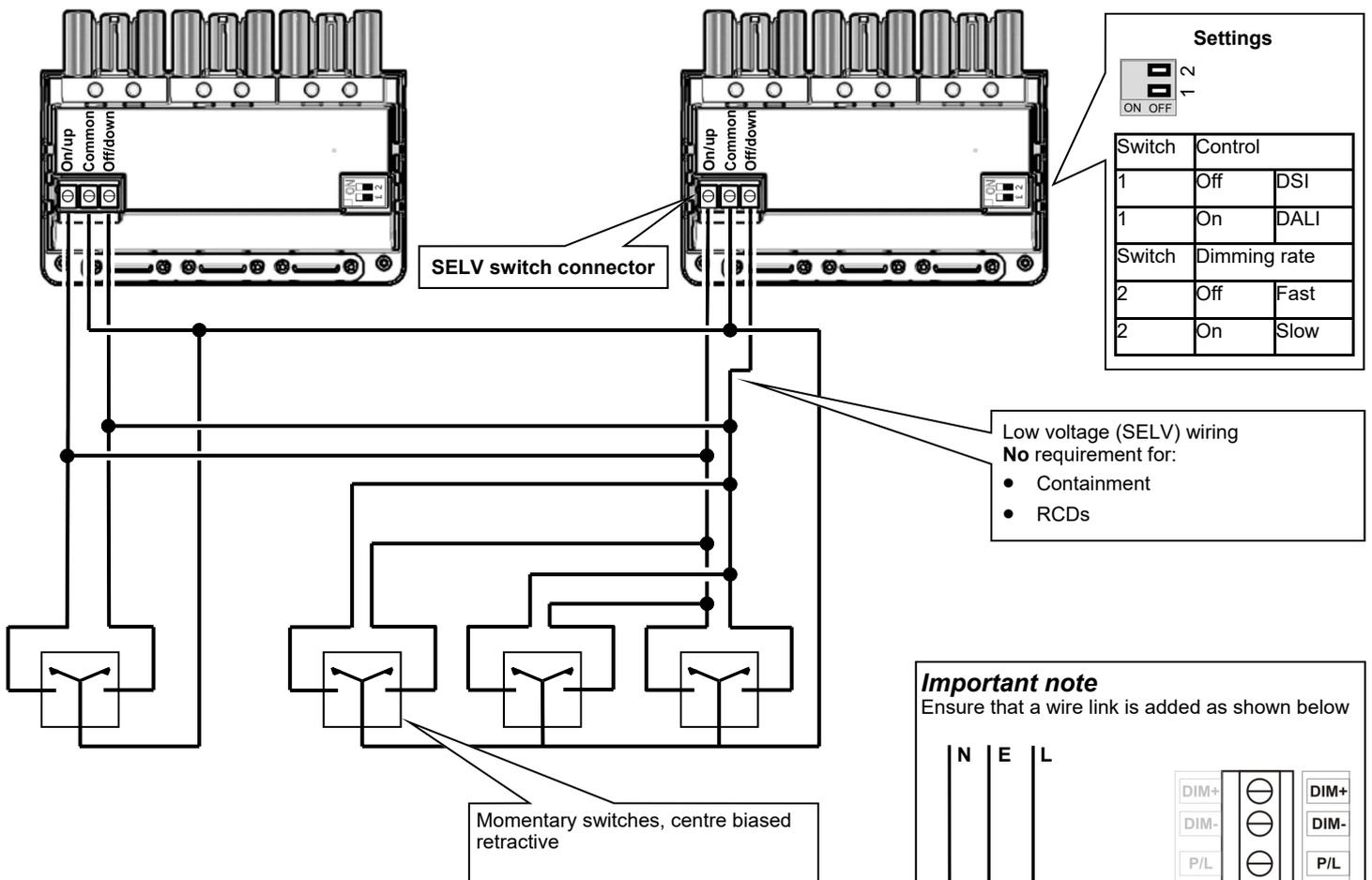
Features

- 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

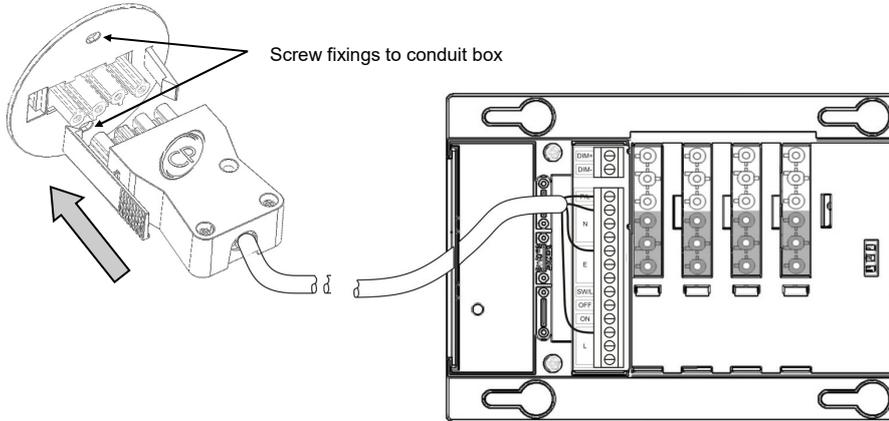
Wiring Diagram



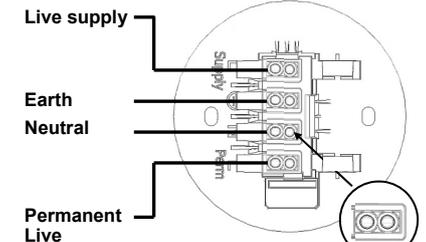
Ceiling rose / conduit box connection

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.

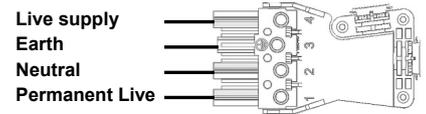


VITM-ROSE mains wiring



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

Not to mix with VITM6 versions that use grey/black connectors.

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

Not to mix with VITM6 versions that use grey/black connectors.
Other leads available to order

Replacement Detector Lead (LSF)

VITM6-L3-DD	3m Direct Dim sensor lead
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Connectors (blue & black)

BVITM6-LPW	6 pole luminaire plug white
BVITM6-LPR	6 pole luminaire plug red

Not to mix with VITM6 versions that use grey/black connectors.

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	LVD-2014/35/EU

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

UK Patent no. GB2463063

EU patent pending

EU registered design no.

001587544-0001, 001587544-0002

IMPORTANT NOTICE!

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



CP Electronics - a business unit of
Legrand Electric Limited
Brent Crescent, London NW10 7XR UK
Tel: +44 (0)333 900 0671
Fax: +44 (0)333 900 0674

A brand of Legrand
www.cpelectronics.co.uk
enquiry@cpelectronics.co.uk