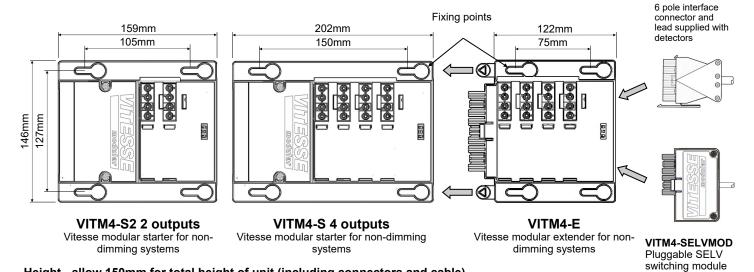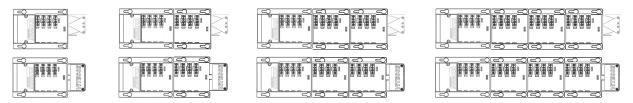# VITM4

Vitesse Modular 4 - Switching 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 VITM4 is for use with non-dimming luminaires. The VITM4-SELVMOD converter provides a cost effective SELV switch input for overcoming the requirements of the IET 18th edition wiring regulations.
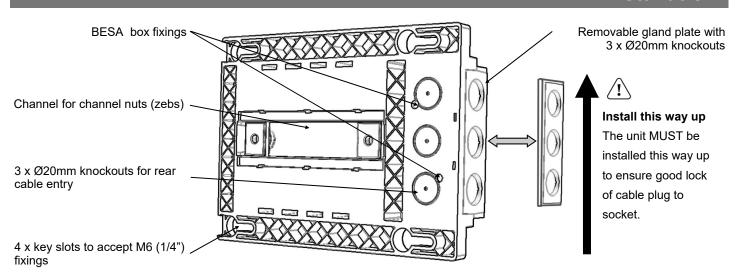
System Components

VITM4-S2 2 outputs
Vitesse modular starter for non-dimming systems

VITM4-S 4 outputs
Vitesse modular starter for non-dimming systems

VITM4-E
Vitesse modular extender for non-dimming systems

6 pole interface connector and lead supplied with detectors

VITM4-SELVMOD
Pluggable SELV switching module

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

Installation

BESA box fixings

Channel for channel nuts (zebs)

3 x Ø20mm knockouts for rear cable entry

4 x key slots to accept M6 (1/4") fixings

Removable gland plate with 3 x Ø20mm knockouts

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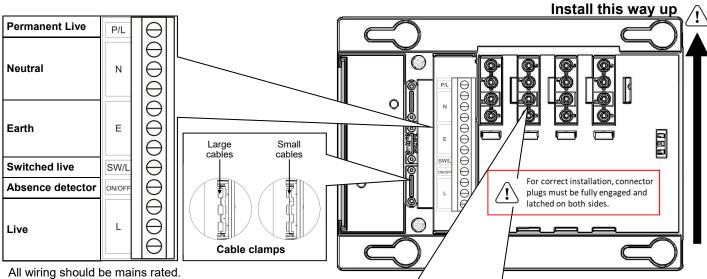The unit MUST be installed this way up to ensure good lock of cable plug to socket.

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.
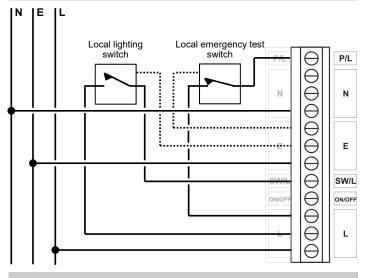
Wiring

Permanent Live	P/L	
Neutral	N	
Earth	E	
Switched live	SW/L	
Absence detector	ON/OFF	
Live	L	

Install this way up ⚠

Large cables / Small cables

Cable clamps

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 below
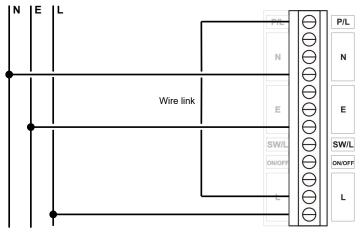 **Permanent live** feeds emergency fittings
  Absence detector connects switches through to detectors
  Switched live turns the lights on and off
- Use the cable clamps to secure the wiring or use cable glands (not supplied). The clamps can be split, and flipped over to clamp different cable diameters.
- Replace wiring compartment cover.
- Plug in the luminaires ensuring that the connector latches to the box.
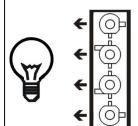- **Install this way up!** The unit MUST be installed orientated as per the arrow to ensure good lock of cable plug to socket!

Luminaire connections / Lead colours

Permanent Live	Black (4 core only)
Neutral	Blue
Earth	Green / Yellow
Switched Live	Brown

Local lighting switch and local emergency test switch

Local lighting switch   Local emergency test switch

Emergency test using central switch

Multiple boxes

Central emergency test switch
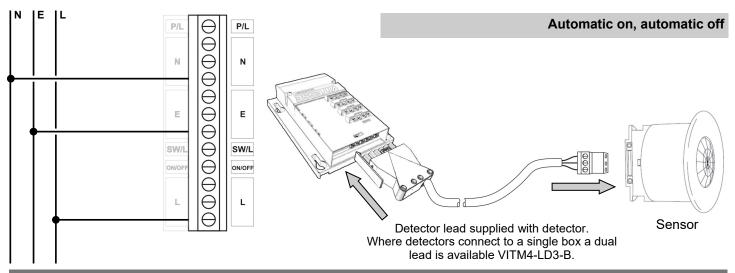
Emergency test using power interruption

Wire link

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.
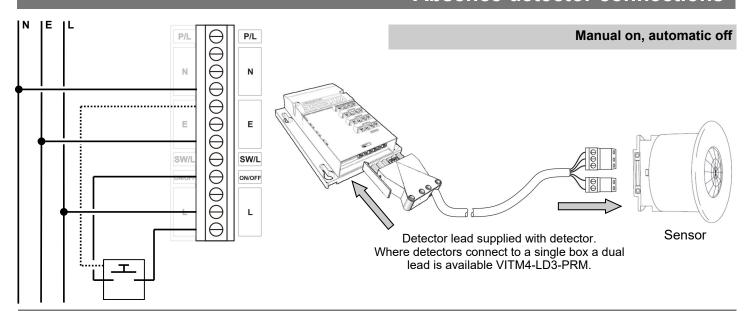
⚠ *DO NOT WIRE ACROSS PHASES*
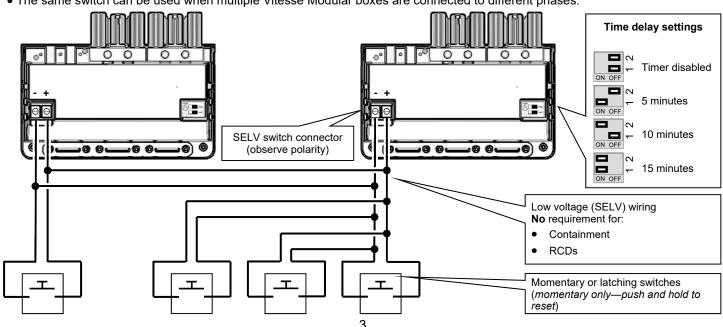
Presence detector connections

Automatic on, automatic off

| N | E | L |

P/L — P/L
N — N
E — E
SW/L — SW/L
ON/OFF — ON/OFF
L — L

Detector lead supplied with detector.
Where detectors connect to a single box a dual
lead is available VITM4-LD3-B.

Sensor

Absence detector connections

Manual on, automatic off

| N | E | L |

P/L — P/L
N — N
E — E
SW/L — SW/L
ON/OFF — ON/OFF
L — L

Detector lead supplied with detector.
Where detectors connect to a single box a dual
lead is available VITM4-LD3-PRM.

Sensor

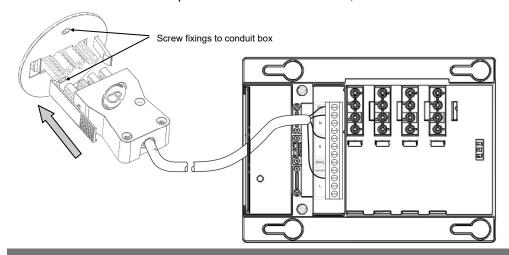## VITM4-SELVMOD Switching Module

- No mains voltage switch wires routed along walls removes the need for RCD protection under the IET 18th Edition regulations.
- The VITM4-SELVMOD module allows switches in parallel for 2-way and intermediate switching.
- Optional time delay function.
- The same switch can be used when multiple Vitesse Modular boxes are connected to different phases.

Time delay settings

	Setting
ON OFF	Timer disabled
ON OFF	5 minutes
ON OFF	10 minutes
ON OFF	15 minutes

SELV switch connector
(observe polarity)

Low voltage (SELV) wiring
No requirement for:
- Containment
- RCDs

Momentary or latching switches
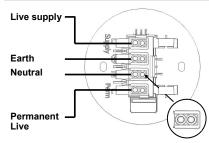(*momentary only—push and hold to reset*)

Ceiling rose / conduit box connection

Conduit box to VITM4-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 VITM4-S. A pre-wired version is available, VITM4-SL1.

Screw fixings to conduit box

VITM-ROSE mains wiring

Live supply

Earth
Neutral

Permanent
Live

Each pole has **two** screw terminals.
Each terminal accepts 1 x 2.5mm^2

VITM-ROSE connector wiring

Live supply
Earth
Neutral
Permanent Live

Part numbers

Modules

VITM4-S	4 pole starter box 4 outputs
VITM4-S2	4 pole starter box 2 outputs
VITM4-E	4 pole extender box 4 outputs
VITM4-SL1	4 pole starter box with 1m lead and ceiling rose connector
VITM4-SD5	Pre-wired corridor module + 5m cable

Presence / Absence Detectors

VITM4-EBDSPIR-B	PIR presence detector
VITM4-EBDSPIR-PRM	PIR presence/absence detector
VITM4-MWS3A-PRM	Microwave presence/absence detector (adjustable head)
VITM4-MWS6-PRM	Microwave presence/absence detector (fixed head)
VITM4-EBMPIR-B	Miniature PIR presence detector
VITM4-EBMPIR-PRM	Miniature PIR premium presence detector

Accessories

VITM4-SELVMOD	SELV switching module
VITM-ROSE	Ceiling rose module

Dual Detector Leads (LSF)

VITM4-LD3-B	3m basic sensor lead
VITM4-LD3-PRM	3m premium sensor lead

Luminaire Leads (LSF)

VITM4L303100W	3 core	3m	1.0mm^2	White plug
VITM4L305100W	3 core	5m	1.0mm^2	White plug
VITM4L403100R	4 core	3m	1.0mm^2	Red plug
VITM4L405100R	4 core	5m	1.0mm^2	Red plug

Other leads available to order.

Connectors

VITM4-LPW	4 pole luminaire plug white
VITM4-LPR	4 pole luminaire plug red

Ratings

Voltage	230VAC +/- 10%
Frequency	50Hz
Terminal capacity	4mm^2 in wiring compartment
Temperature	0ºC to 35ºC
Power	Rating of system 16A. Rating of each output 10A
Compliance	EMC-2014/30/EU
	LVD-2014/35/EU

For further compliance information visit
www.cpelectronics.co.uk/compliance

CE

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

CP electronics
intelligent energy control

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

bsi

ISO 9001 Quality Management Systems CERTIFIED	ISO 14001 Environmental Management CERTIFIED	ISO 45001 Occupational Health and Safety Management (SSIP) CERTIFIED
FM 45789	EMS 534520	OHS 642036

ESTA
energy services and technology association

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

Ref: #WD289 Issue 11