Vitesse Modular™

Reinventing lighting connection systems

Welcome to CP Electronics

Leaders in energy saving controls for commercial, public sector and domestic environments

The global move towards energy saving

Reducing the energy consumption of buildings is no longer something to work towards. A range of pressing global drivers has made it an immediate requirement.

The unprecedented rise in energy prices, coupled with the radically altered economic landscape, has forced organisations to reduce their energy overheads in order to remain competitive.

Greater focus on preserving our natural environment is also forcing organisations to reduce their carbon footprint, not only to meet new legislation, but also the growing pressure from customers that their suppliers have proactive environmental policies.

Helping organisations to achieve their objectives

CP Electronics is a world leader in helping organisations to achieve their energy consumption objectives. We benefit from over 40 years in the design and manufacture of cutting-edge energy saving controls for heating, lighting and ventilation.

Our products and solutions are used in commercial, public sector and domestic environments of all sizes. Furthermore, we provide technical advice and customer care that ensure you always achieve the best results and an optimal return on investment.

Innovation. Functionality. Simplicity.

Every single CP Electronics product brings something new to lighting, heating and ventilation control. Our ethos has always been to innovate new ways for our customers to save money and minimise their environmental impact without sacrificing functionality or aesthetic.

These underpinning values are complemented by a constant drive towards simplicity. Design, installation and maintenance professionals benefit from practical simplicity, whilst end-users benefit from highly intuitive user-friendly controls.

A reputation for detail and quality

Attention to detail and quality has made CP Electronics a name to trust. Exceptional reliability has even enabled us to provide a 5 year warranty as standard, on all our products.

CP Electronics has achieved the following certified standards which reflect the highest levels of quality and performance:

BS EN ISO 14001:2004 — International recognition of the company's environmental management systems

ISO 9001 Accreditation — International recognition of quality management systems

OHSAS 18001 Accreditation — Occupational Health and Safety Management

ESTA — Affiliated to the Energy Services and Technology Association

CE — All products where applicable carry the CE mark

The Vitesse Modular™ System

VITESSE *modular*

As its name suggests, Vitesse Modular relies on a modular design which means you simply add 'modules' as and when they are needed.
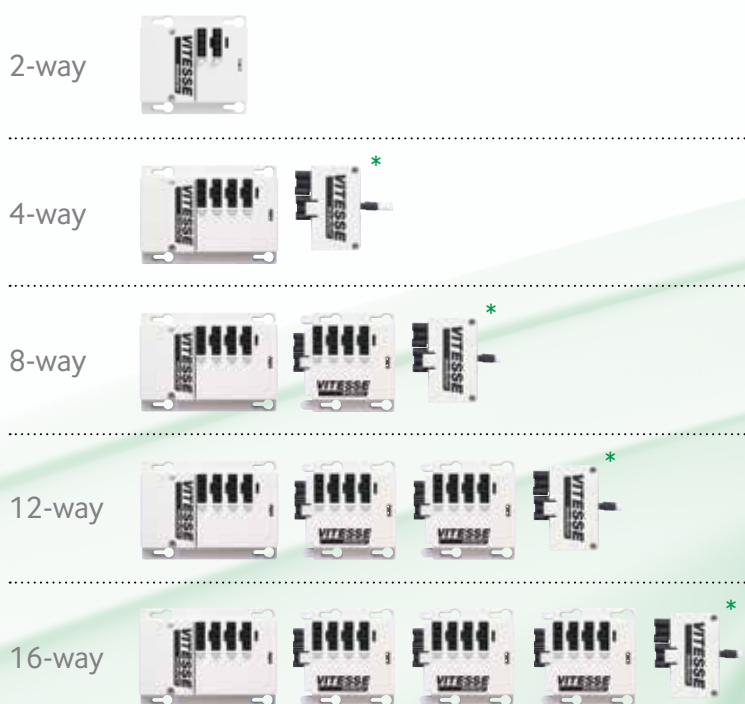
Packed with innovative features, Vitesse Modular is a cost effective method of providing power and control for lighting installations in industrial, commercial and retail buildings.

Connection Module

4-way Extender Module

4-way Extender Module

Starter Module

An-10 wireless switching module.

6 pole system for dimming illustrated. 4 pole system also available for simple switching.

PATENTED PRODUCT
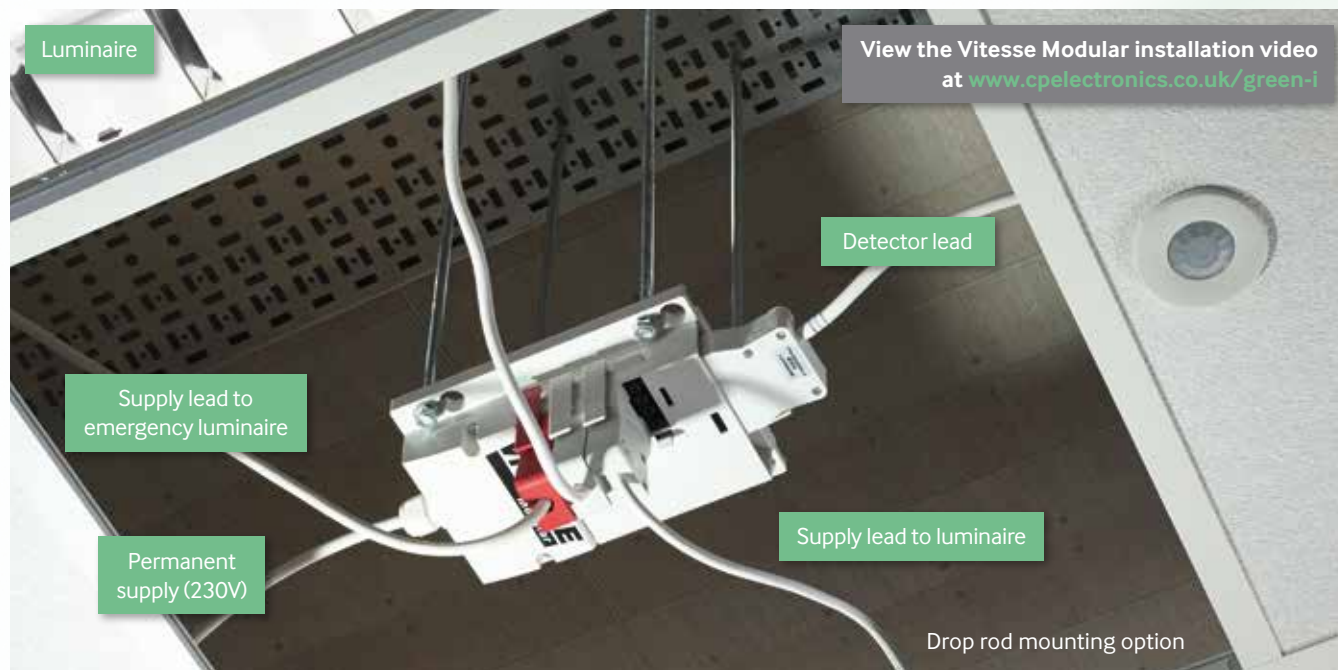
It grows and adapts to suit the installation

From 2-way to 16-way using the 4-way extender modules... it couldn't be simpler.

Once Vitesse Modular is installed, modules can be added (or removed) depending on future requirements. Also, as there are so few parts, you don't have to waste space in a warehouse or vehicle with a huge variety of different parts just in case you might need them.

2-way

4-way

8-way

12-way

16-way

*Connection Module only required for dimming, detector or SELV switch connections.

Simple connectivity

The mains input is connected using the spacious wiring compartment; and control inputs and outputs are pluggable using industry standard connectors as shown as a typical layout below.

Luminaire

View the Vitesse Modular installation video at www.cpelectronics.co.uk/green-i

Detector lead

Supply lead to emergency luminaire

Supply lead to luminaire

Permanent supply (230V)

Drop rod mounting option

Ease of fixing

Vitesse Modular provides easy installation options for all locations.

Slab mounting

Can be mounted directly onto slab.

Channel nut mounting

Can be mounted using channel nut fixings.

BESA box connection

Compatible with BESA box connection.

Marco clip mounting

Can be mounted using Marco clips.

Choice of switching or dimming

Vitesse Modular offers you the choice of switching or dimming to suit your installation.

Four pole connection for switching
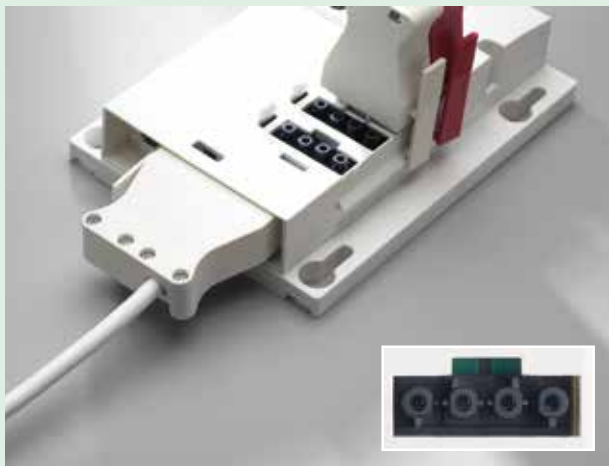
Four pole connections for standard non-dimming luminaires allows switching or automatic control with Presence detectors or a SELV switching module. Available with 2-channel switching, see page 9.

Six pole connection for dimming

Six pole connections for luminaires fitted with a dimming ballast allows switching and dimming when used with Presence detectors or a SELV dimming module.

Flexible to your project demands

Vitesse Modular can adapt to various installation requirements with regards to functionality & connectivity.

SELV switching module

The Vitesse Modular SELV module removes the need for RCD protection and provides IEE 17th Edition compliant lighting installations.

Separate pluggable connections

Separate pluggable connections for detectors and control devices so valuable channel outputs are not wasted.

PIR and microwave detectors

Full range of lighting control products such as PIR and Microwave Presence detectors. Presence detection provides automatic switch on and automatic switch off.

Easy presence/absence detector connection
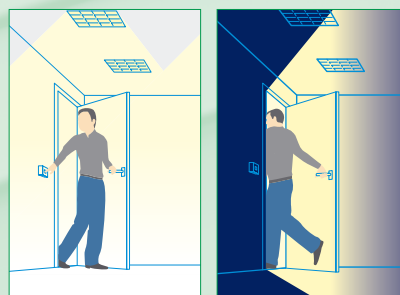
Simple pluggable connection to provide presence/ absence detection when used with our full range of available detectors.

i *see page 21 for more information*

Future-proof your lighting design

A project might evolve over time. Our simple solutions make adaption easy.

Programming handsets

UNLCDHS

UHS5

Our range of infrared (IR) handsets have been designed to allow simple configuration, programming and maximum user convenience.

There's a handset to suit every user whether it's the commissioning engineer configuring hundreds of detectors, or a contractor setting up two of three detectors.

Embracing wireless technology through our An-10 system

An-10®

An-10 wireless technology allows you to install a fully featured lighting control system easily and with minimal disruption.

An-10 has been specifically created to allow you to embrace the advantages of wireless technology, while at the same time offering all of the features and functionality demanded by modern day lighting control systems.

Visit our website for more details on An-10.

Versatile wiring options

Vitesse Modular has been designed for hassle-free wiring on-site.

Large terminal compartments and blocks

Lots of space for really easy connections.

Large terminals accept 4mm^2 cable.

Detachable cable entry plate and integral cable clamps

Detachable cable entry plate for hassle-free wiring.

Cable clamps can be used with grommets or cable glands.

Red luminaire connectors for emergency fittings

Red luminaire connectors — easy to track emergency circuits whilst on-site.
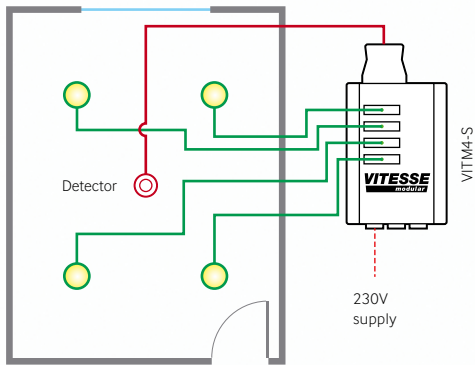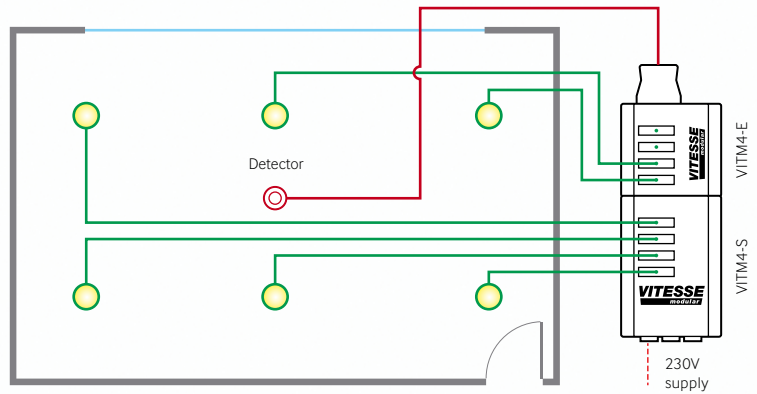
Series 166 format pluggable connectors

Series 166 format connectors — no need for proprietary connectors.

Easy to connect pluggable luminaires.

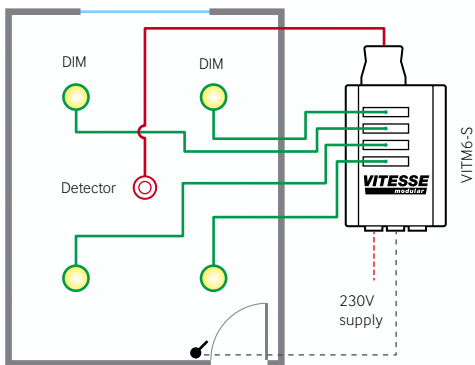# Typical wiring layouts for switching and dimming detectors

Switching

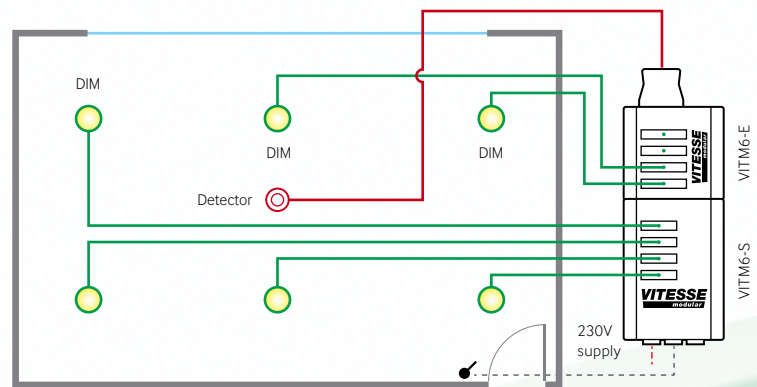**Four luminaire room**
Presence non-dimming room with detector.

Six luminaire room
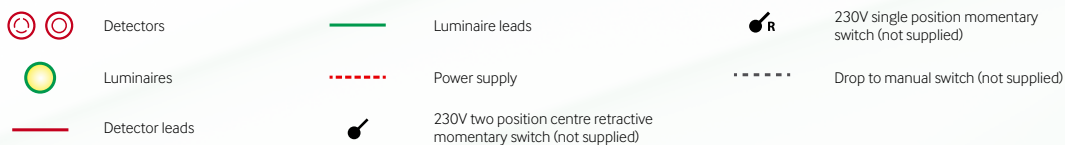Presence non-dimming room with detector.

Dimming

Four luminaire room
Absence and window row dimming room with detector.

Six luminaire room
Absence and window row dimming room with detector.

◎ ◎	Detectors	——	Luminaire leads	R	230V single position momentary switch (not supplied)
◯	Luminaires	------	Power supply	------	Drop to manual switch (not supplied)
——	Detector leads		230V two position centre retractive momentary switch (not supplied)		

PLEASE NOTE: These wiring diagrams are to be used as a guide only. For further details please refer to our product user guides.

2-channel switching

Ideal for installations that have essential and non-essential supplies.

Non-dimming distribution box for use in applications that require supplies for switching lighting and/or ventilation circuits.

The 2-channel, 2-supplies VITM4-S-2CH-2S is ideal for hospitals where there is essential and non-essential supply.
See page 14 for 2-channel products.
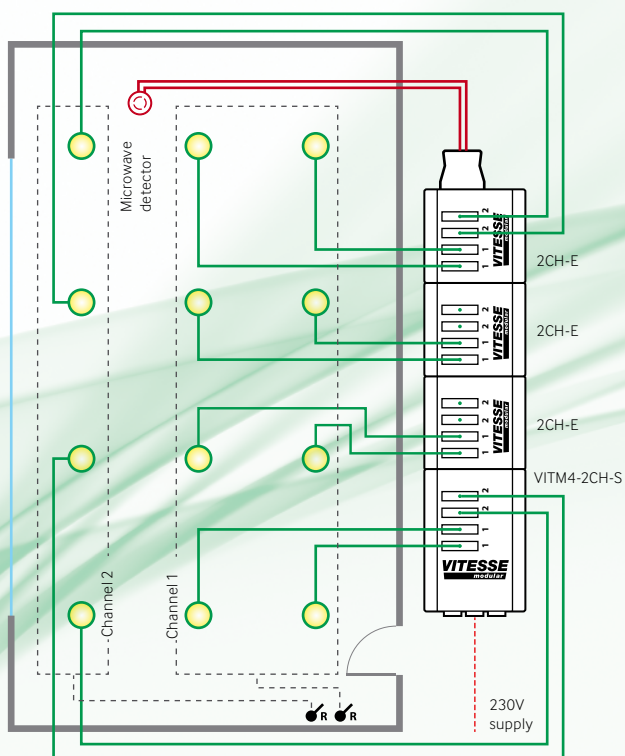
Dedicated corridor solution

Vitesse Modular offers a dedicated corridor solution.

Switching and dimming versions are available in a pre-wired configuration, VITM4-SD5 and VITM6-SD5, enabling luminaires in corridors or passageways to be easily connected.

See page 11 and 17 for corridor solution products.
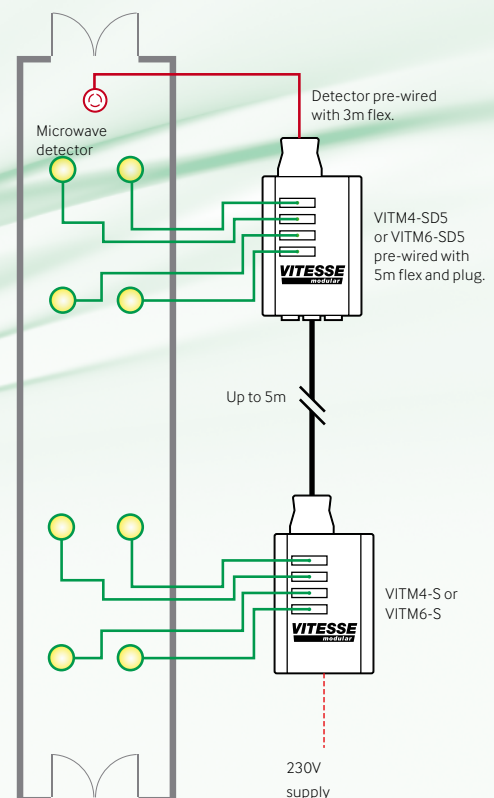
PLEASE NOTE: VITM 4 and 6 are not intercompatible

Product overview

Switching Products			
	Code	Description	Pg
	VITM4-S	Starter module with 4 pole, 4 outputs	11
	VITM4-S2	Starter module with 4 pole, 2 outputs	11
	VITM4-E	Extender module with 4 pole, 4 outputs	11
	VITM4-SL1	Pre-wired package	11
	VITM4-SD5	Pre-wired corridor module.	11
	VITM4-EBDSPIR-PRM	Compact PIR presence/absence detector	12
	VITM4-EBMHS-PRM	Miniature PIR presence detector	12
	VITM4-MWS6-PRM	Low profile microwave presence/absence detector	12
	VITM4-MWS3A-PRM	Adjustable head microwave presence/absence detector	12
	VITM-MCFUSC	VITM Marco basket fixing clip	13
	VITM4-SELVMOD	SELV switching module	13
	VITM-ROSE	Ceiling rose	13
		Luminaire leads & connectors	13

2-Channel Switching Products			
	Code	Description	Pg
	VITM4-S-2CH	Starter module with 4 pole, 4 outputs	14
	VITM4-E-2CH	Extender module with 4 pole, 4 outputs	14
	VITM4-S-2CH-2S	Starter module with 4 pole, 4 outputs. 2-channel, 2-supplies	14
	VITM4-E-2CH-2S	Extender module with 4 pole, 4 outputs. 2-channel, 2-supplies	14
	EBDSPIR-PRM-2CH	Compact PIR presence/absence detector	15
	MWS6-PRM-2CH	Low profile microwave presence/absence detector	15
	MWS3A-PRM-2CH	Adjustable head microwave presence/absence detector	15

		2-channel detector leads	15
		Luminaire leads & connectors	16
	VITM-MCFUSC	VITM Marco basket fixing clip	16

Dimming Products			
	Code	Description	Pg
	BVITM6-S	Starter dimming module with 6 pole, 4 outputs	17
	BVITM6-S2	Starter module with 6 pole, 2 outputs	17
	BVITM6-E	Extender dimming module with 6 pole, 4 outputs	17
	BVITM6-SL1	Pre-wired dimming package	17
	BVITM6-SD5	Pre-wired corridor module, 5 metres of cable	17
	VITM6-EBDSPIR-DD	Compact PIR presence/absence detector	18
	VITM6-EBMHS-DD	Miniature PIR presence detector	18
	VITM6-MWS6-DD	Low profile microwave presence/absence detector	18
	VITM6-MWS3A-DD	Adjustable head microwave presence/absence detector	18
	VITM6-SELVMOD	SELV switching and dimming module	19
	VITM-ROSE	Ceiling rose	19
		Luminaire leads & connectors	19
	VITM-MCFUSC	VITM Marco basket fixing clip	19

Programming Handsets			
	Code	Description	Pg
	UNLCDHS	Professional commissioning handset	12, 16, 18
	UHS5	Commissioning handset	12, 16, 18
	UHS7	User handset	12, 16, 18

Vitesse Modular switching modules, detectors & accessories

Vitesse Modular provides easy installation options for all locations.

VITM4-S

Starter Module

VITM4-S2

Order Code	Description
VITM4-S	Starter module with 4 pole, 4 outputs. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)
VITM4-S2	Starter module with 4 pole, 2 outputs. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)
Dimensions	
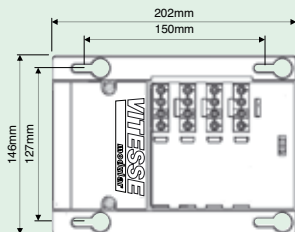
VITM4-E

Extender Module

Order Code	Description
VITM4-E	Extender module with 4 pole, 4 outputs. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)
Dimensions	
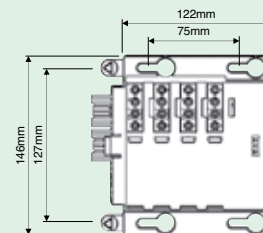
VITM4-SL1

Order Code	Description
VITM4-SL1	Pre-wired package includes 4 pole 4 output starter module, ceiling rose, 4 pole connector plug and 1 metre of cable. BESA box not included

VITM4-SD5

Order Code	Description
VITM4-SD5	Pre-wired corridor module. 5 metres of cable

EBDSPIR

Supplied with 3m lead and plug.

Order Code	Description
VITM4-EBDSPIR-PRM	Compact ceiling mounted PIR presence/absence detector with lux level sensing, time delay function and infrared override
VITMR-EBSPIR-PRM	Same as VITM4-EBDSPIR-PRM plus connector and ceiling rose

EBMHS

Supplied with 3m lead and plug (from PSU).

Order Code	Description
VITM4-EBM-HS-PRM	Miniature PIR presence detector with lux level sensing, time delay function and infrared override

(Note: this detector does not support absence detection)

MWS6

Supplied with 3m lead and plug.

Order Code	Description
VITM4-MWS6-PRM	Low profile microwave presence/absence detector with lux level sensing, infrared override and time delay function
VITMR-MWS6-PRM	Same as VITM4-MWS6-PRM plus connector and ceiling rose

MWS3A

Supplied with 3m lead and plug.

Order Code	Description
VITM4-MWS3A-PRM	Adjustable head microwave presence/absence detector with lux level sensing, infrared override and time delay function
VITMR-MW-S3A-PRM	Same as VITM4-MWS3A-PRM plus connector and ceiling rose

PROGRAM FROM GROUND LEVEL

The IR transmitting and receiving technology in our handsets and detectors has been carefully designed to allow programming from ground level.

Order Code	Description
UNLCDHS	Professional commissioning handset
UHS5	Commissioning handset
UHS7	User handset

Marco Basket Fixing Clip

Order Code	Description
VITM-MCFUSC	VITM Marco basket fixing clip

VITM4-SELVMOD

Refer to An-10 brochure for options

Switching Module.
To be used for manual switching only – no detector

Order Code	Description
VITM4-SELVMOD	Switching module – simple connection of switches using SELV removes the need for RCD protection. Includes integral time delay feature

Dimensions

55mm
95mm

Ceiling Rose

Order Code	Description
VITM-ROSE	Ceiling rose with connector plug. BESA box not included. Power Rating of system 16A (at 230VAC)
VITM-ROSE-R	Ceiling rose with Red connector plug. Suitable for emergency fittings. BESA box not included. Power Rating of system 16A (at 230VAC)
VITM-ROSE-NP	Ceiling rose, no connector plug. BESA box not included. Power Rating of system 16A (at 230VAC)

Dimensions

74mm
50.3mm
15mm 21mm

Luminaire Leads & Connectors Switching

Order Code	Description
VITM4L303100W	3 core luminaire lead (white), 1.0mm^2, (3 metres)
VITM4L305100W	3 core luminaire lead (white), 1.0mm^2, (5 metres)
VITM4L403100R	4 core luminaire lead (red), 1.0mm^2, (3 metres)
VITM4L405100R	4 core luminaire lead (red), 1.0mm^2, (5 metres)
VITM4-LPW	4 pole luminaire connector (white)
VITM4-LPR	4 pole luminaire connector (red)
Other cable lengths are available upon request	

Dual Detector Leads

Order Code	Description
VITM4-LD3-PRM*	Dual detector lead for two PRM detectors (3 metre)

*Only for single channel detectors

i Order Code Guidelines for Cables

Prefix	Poles	Lead	Core	Length in Metres	Cable Area	Type	Plug Colour
VITM	4	L	3/4	03 or 05 (other lengths to order)	1.0mm^2 (1.5mm^2 to order)	0 = lsf	W (White) or R (Red) B (Black) to order

2-channel switching options

Non-dimming distribution box for use in applications that require two independently switched lighting circuits, or lighting and ventilation circuits. Learn more on page 9.

VITM4-S-2CH

Starter Module

Order Code	Description
VITM4-S-2CH	Starter module with 4 pole, 4 outputs. 2-channel. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)

VITM4-E-2CH

Extender Module

Order Code	Description
VITM4-E-2CH	Extender module with 4 pole, 4 outputs. 2-channel. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)

2-channel, 2-supplies switching options

Non-dimming distribution box for use in applications that require two independent supplies for switching, lighting and/or ventilation circuits. Essential and non-essential. Learn more on page 9.

VITM4-S-2CH-2S

Order Code	Description
VITM4-S-2CH-2S	Starter module with 4 pole, 4 outputs. 2-channel, 2-supplies. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)

VITM4-E-2CH-2S

Order Code	Description
VITM4-E-2CH-2S	Extender module with 4 pole, 4 outputs. 2-channel, 2-supplies.Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)

EBDSPIR

N.B Please order leads separately

Order Code	Description
EBDSPIR-PRM-2CH	Compact ceiling mounted PIR presence/absence detector with lux level sensing, time delay function and infrared override. 2-channel
EBDSPIR-PRM-2CH-NC	Compact ceiling mounted PIR presence/absence detector with lux level sensing, time delay function and infrared override. Normally closed fail safe contacts. 2-channel

MWS6

N.B Please order leads separately

Order Code	Description
MWS6-PRM-2CH	Low profile microwave presence/absence detector with lux level sensing, infrared override and time delay function. 2-channel
MWS6-PRM-2CH-NC	Low profile microwave presence/absence detector with lux level sensing, infrared override and time delay function. Normally closed fail safe contacts. 2-channel

MWS3A

N.B Please order leads separately

Order Code	Description
MWS3A-PRM-2CH	Adjustable head microwave presence/absence detector with lux level sensing, infrared override and time delay function. 2-channel
MWS3A-PRM-2CH-NC	Adjustable head microwave presence/absence detector with lux level sensing, infrared override and time delay function. Normally closed fail safe contacts. 2-channel

Detector Leads

Order Code	Description
VITM4-L3-2CH	2-channel detector lead for single detector (3 metre)
VITM4-LD3-2CH	2-channel dual detector lead for two detectors (3 metre)
VITM4-L3-2CH-2S	2-channel, 2-supplies detector lead for single detector (3 metre)
VITM4-LD3-2CH-2S	2-channel, 2-supplies dual detector lead for two detectors (3 metre)

Order Code Guidelines for Cables

Prefix	Poles	Lead	Core	Length in Metres	Cable Area	Type	Plug Colour
VITM	4	L	3/4	03 or 05 (other lengths to order)	1.0mm^2 (1.5mm^2 to order)	0 = lsf	W (White) or R (Red) B (Black) to order

Marco Basket Fixing Clip

Order Code	Description
VITM-MCFUSC	VITM Marco basket fixing clip

Luminaire Leads & Connectors Switching

Order Code	Description
VITM4L303100W	3 core luminaire lead (white), $1.0mm^2$, (3 metres)
VITM4L305100W	3 core luminaire lead (white), $1.0mm^2$, (5 metres)
VITM4L403100R	4 core luminaire lead (red), $1.0mm^2$, (3 metres)
VITM4L405100R	4 core luminaire lead (red), $1.0mm^2$, (5 metres)
VITM4-LPW	4 pole luminaire connector (white)
VITM4-LPR	4 pole luminaire connector (red)
Other cable lengths are available upon request	

Order Code	Description
UNLCDHS	Professional commissioning handset
UHS5	Commissioning handset
UHS7	User handset

PROGRAM FROM GROUND LEVEL

The IR transmitting and receiving technology in our handsets and detectors has been carefully designed to allow programming from ground level.

Vitesse Modular dimming modules, detectors & accessories

**Our VITM6 range is designed for use with dimming luminaires.**

BVITM6-S

Starter Dimming Module

BVITM6-S2

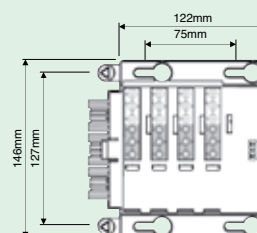| Order Code	Description
BVITM6-S	Starter module with 6 pole, 4 outputs. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)
BVITM6-S	Starter module with 6 pole, 2 outputs. Power rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)
Dimensions	
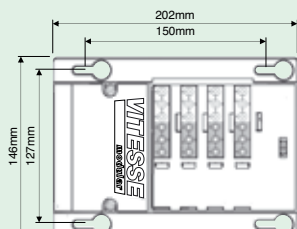
BVITM6-E

Extender Dimming Module

Order Code	Description
BVITM6-E	Extender module with 6 pole, 4 outputs. Power Rating of system 16A (at 230VAC). Rating of each output 10A (at 230VAC)
Dimensions	

VITM6-SL1

Pre-wired Dimming Package

Order Code	Description
VITM6-SL1	Pre-wired dimming package includes 6 pole 4 output starter dimming module, Ceiling Rose, 4 pole connector plug and 1 metre of cable. BESA box not included

VITM6-SD5

Order Code	Description
VITM6-SD5	Pre-wired corridor module. 5 metres of cable

EBDSPIR

Supplied with 3m lead and plug.

Order Code	Description
VITM6-EBDSPIR-DD	Compact ceiling mounted PIR presence/absence detector with Direct Dim and time delay function (up to 20 ballasts). DALI/DSI

EBMHS

Supplied with 3m lead and plug (from PSU).

Order Code	Description
VITM6-EBMHS-DD	Miniature PIR presence detector with Direct Dim and time delay function (up to 10 ballasts). DALI/DSI

(Note: this detector does not support Absence detection)

MWS6

Supplied with 3m lead and plug.

Order Code	Description
VITM6-MWS6-DD	Low profile microwave presence/absence detector with Direct Dim and time delay function (up to 20 ballasts). DALI/DSI

MWS3A

Supplied with 3m lead and plug.

Order Code	Description
VITM6-MWS3A-DD	Adjustable head microwave presence/absence detector with Direct Dim and time delay function (up to 20 ballasts). DALI/DSI

Analogue dimming (AD) detectors available on request

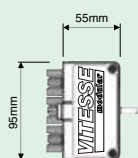| Order Code	Description
UNLCDHS	Professional commissioning handset
UHS5	Commissioning handset
UHS7	User handset

VITM6-SELVMOD

Refer to An-10 brochure for options

Dimming and Switching Module.
To be used for manual switching/dimming only – no detector

Order Code	Description
VITM6-SELVMOD	Dimming and switching module – simple connection of switches using SELV removes the need for RCD protection. When used in conjunction with DALI/DSI ballasts, the Module allows switching and up/down dimming

Dimensions

55mm
95mm

Ceiling Rose

Order Code	Description
VITM-ROSE	Ceiling rose with connector plug. BESA box not included. Power Rating of system 16A (at 230VAC)
VITM-ROSE-R	Ceiling rose with Red connector plug. Suitable for emergency fittings. BESA box not included. Power Rating of system 16A (at 230VAC)
VITM-ROSE-NP	Ceiling rose, no connector plug. BESA box not included. Power Rating of system 16A (at 230VAC)

Dimensions

74mm   15mm 21mm
50.3mm

Luminaire Leads & Connectors Dimming

Order Code	Description
VITM6L303100W	3 core luminaire lead (white), 1.0mm² (3 metres)
VITM6L305100W	3 core luminaire lead (white), 1.0mm² (5 metres)
VITM6L403100R	4 core luminaire lead (red), 1.0mm² (5 metres)
VITM6L405100R	4 core luminaire lead (red), 1.0mm² (3 metres)
VITM6L503100W	5 core luminaire lead (white), 1.0mm², (3 metres)
VITM6L505100W	5 core luminaire lead (white), 1.0mm², (5 metres)
VITM6L603100R	6 core luminaire lead (red), 1.0mm², (3 metres)
VITM6L605100R	6 core luminaire lead (red), 1.0mm², (5 metres)
VITM6-LPW	6 pole luminaire connector (white)
VITM6-LPR	6 pole luminaire connector (red)
Other cable lengths are available upon request	

Marco Basket Fixing Clip

Order Code	Description
VITM-MCFUSC	VITM Marco basket fixing clip

ⓘ Order Code Guidelines for Cables

Prefix	Poles	Lead	Core	Length in Metres	Cable Area	Type	Plug Colour
VITM	6	L	3/4/5/6	03 or 05 (other lengths to order)	1.0mm² (1.5mm² to order)	0 = lsf	W (White) or R (Red) B (Black) to order

Technology Guide

Our Vitesse Modular Lighting Connection System works with our cutting edge products.

Find out more about the technology behind our signature detector ranges through this comprehensive guide.
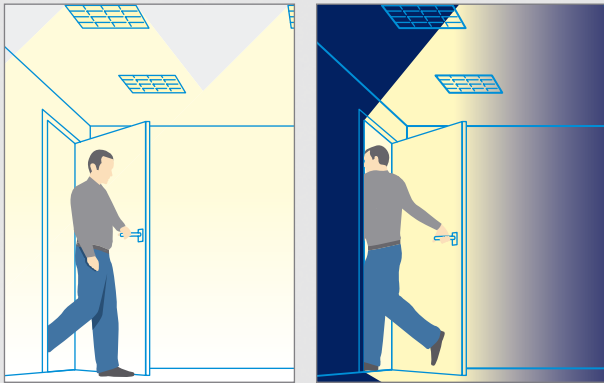
You can also download free BREEAM-compliant lighting specifications from www.cpelectronics.co.uk/apps

Presence and absence detection explained

The choice between presence and absence detection for different spaces can make a big difference in user-friendliness and the amount of energy saved.

Presence Detection

Detectors will switch on lighting automatically when a person enters the room, and switches off lighting automatically when no movement is detected.

Absence Detection
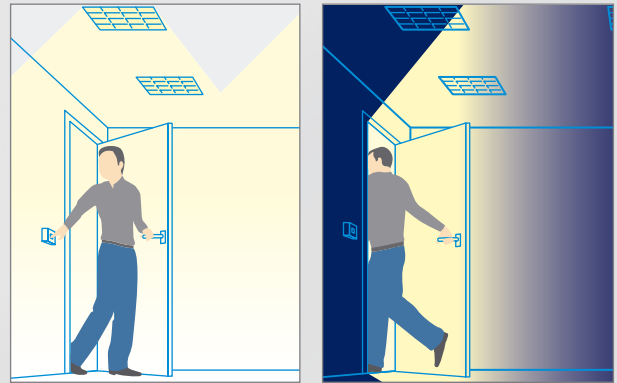
Upon entering the room the person switches on the light as normal, but on leaving the detector switches off the lighting automatically. Lights can also be switched off manually.

# PIRs and microwave detectors compared

PIR detectors

PIR (Passive Infrared) presence detectors detect body heat and movement and are ideally suited where a defined detection pattern is required.
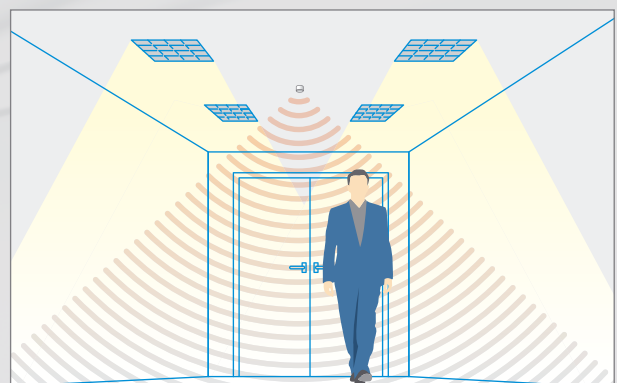
Microwave detectors

Microwave presence detectors are sensitive to movement and are ideal for large spaces and areas that have an awkward shape or where fine motion detection is required.

PIR (Passive Infrared) Detection
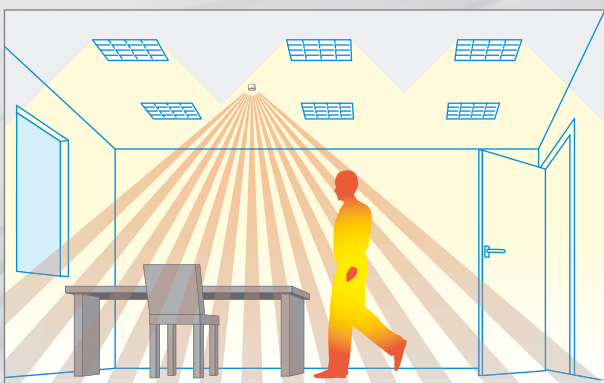
PIR detectors work on detecting the movement of body heat. They are better suited to smaller spaces or where a defined detection pattern is required.

Microwave Detection

Microwave Detectors are sensitive to objects that move, with much greater coverage and sensitivity. They can detect through glass, therefore careful consideration on location is needed in certain applications.
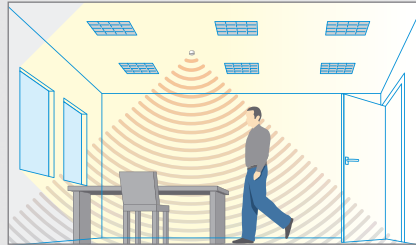
Switching detectors with lux level sensing

These presence detectors have built-in adjustable lux sensors which will keep the lighting switched off if there is sufficient natural light.
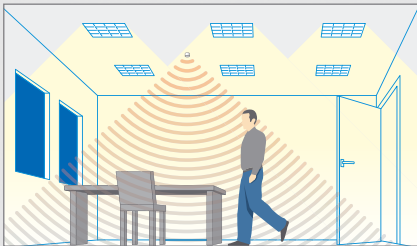
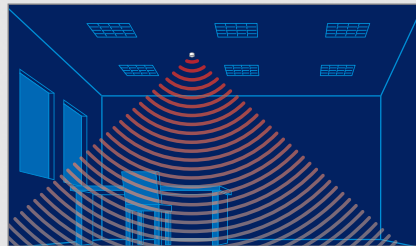## Lux level sensing with absence or presence detection
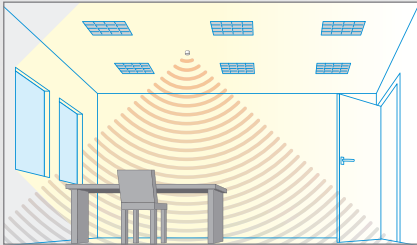
No presence detected, daylight, lights off.

Presence detected, sufficient daylight, lights off.

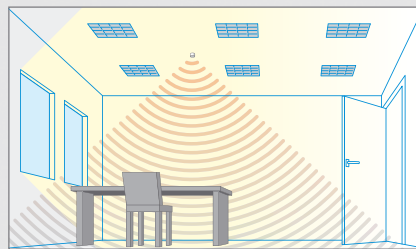Presence detected, insufficient daylight, all lights on.

No presence detected, lights off.

Direct Dimming detectors with lux level sensing

In addition to lux level sensing, dimming detectors are able to provide automatic control of lighting output.

Maintained illuminance with absence or presence detection

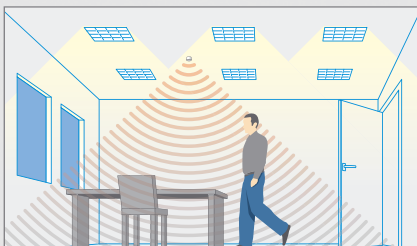A dimming detector can be used to control the light output of luminaires that are fitted with dimming ballasts.
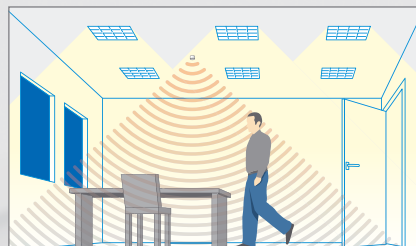

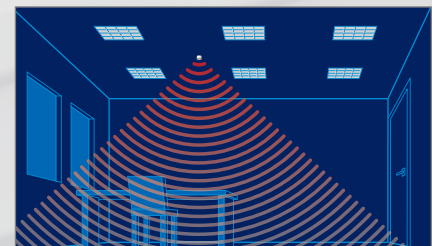No presence detected, daylight, lights off.
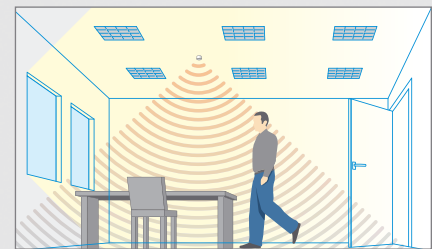
Presence detected, sufficient daylight, lights off.

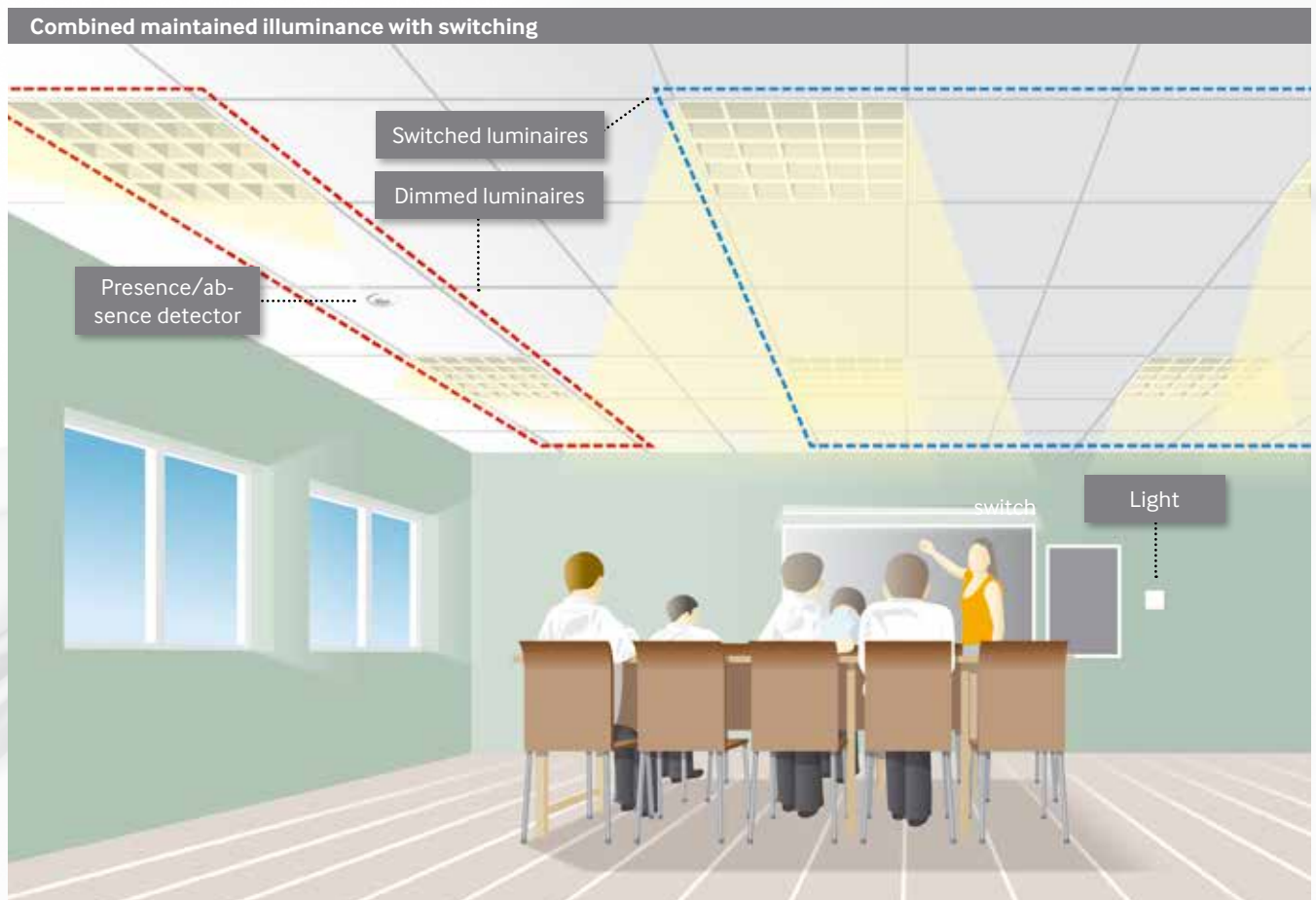Presence detected, some daylight. Lights on and dimmed to maintain lux level.

Presence detected, insufficient daylight. Dimming detector measures and implements maintained illuminance.

No presence detected, lights off.

Additional features and applications:

- Provides either **presence or absence detection with maintained illuminance** in an office or area, allowing the user to manually override the maintained level, by dimming up or down, or switching off and on via momentary wall switch.

- After occupation and the time delay has ended, **the dimming level can be programmed to dim for a time period before switching off, or programmed to never switch off**, but instead stays at a low dimmed output during non-occupation. Very useful for warehousing with 24/7 operations, or corridors for health and safety reasons.

- **Direct dimming detectors can also be programmed to switch on and off (at separate light levels)** according to the local light level when the area is occupied, with or without a time delay (to avoid nuisance switching). This can be programmed as well as maintained illuminance on the same detector.

- Many lighting schemes can be 'over lit' because of the initial brightness of the new lamps, over compensation for dirt/lamp life, and over-design due to room shape and size. **Dimming detectors allow installed lighting to be 'dimmed' to achieve the correct illuminance level**, and increase gradually to compensate for the anticipated light loss over time.

- If the dimming and switched channels are separated, **one channel can work in absence detection, whilst the other channel works in presence detection**. For example, meeting room with: fixed output wall washers in presence detection mode on Channel 1 (no dimming), always on when room is occupied; Dimming fittings in centre of room (over table) on Channel 2 in absence mode, for dimming down/extinguishing when making presentations, etc.

Combined maintained illuminance with switching

Switched luminaires

Dimmed luminaires

Presence/absence detector

switch

Light

The dimming detector can be configured to dim a row of luminaires (those closest to window) whilst simultaneously switching the other luminaires in the room.

Available on our website – **www.cpelectronics.co.uk**
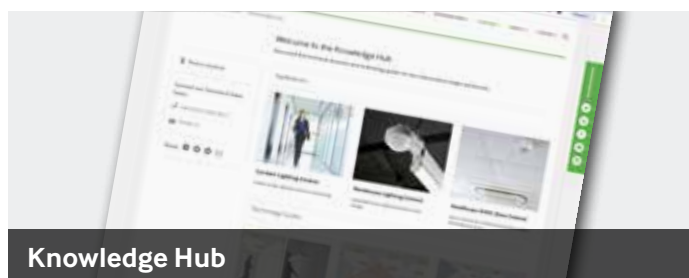

CP electronics
ENERGY CONTROLS

Product Information
Our flagship range of programmable energy saving controls, systems and connection products for lighting, heating or ventilation.

green-i

Product Information
Our off-the-shelf range of easy to fit energy saving controls and connection products for lighting, heating or ventilation.
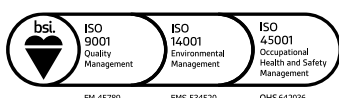
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Energy Efficiency in Buildings

This product forms part of a wide range of devices to enable Energy Efficiency in Buildings – A structured and holistic approach to reducing the carbon footprint and increasing sustainability of businesses.

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bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | ISO 45001 Occupational Health and Safety Management

FM 45789   EMS 534520   OHS 642036

ESTA energy services and technology association

C E

MEMBER KNX

CPD MEMBER Construction CPD Certification Service

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ENERGY CONTROLS

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