SAVE ENERGY!

CP electronics
ENERGY CONTROLS

Green-i Easy Fit Controls

LIGHTING CONTROLS

HVAC CONTROLS

CONNECTION PRODUCTS

VITESS

issue **2**

5 YEAR WARRANTY

UK DESIGN

green-i

A wide range of UK designed quality products

Our Green-i easy fit range of controls has been developed to save you energy on your lighting, heating and ventilation.

The range is made up of presence detectors, connection systems, switches and timers – allowing you to easily take control of your energy usage by providing simple and effective control solutions.

CP Electronics, a brand of Legrand, is a leading name in the design and manufacture of commercial, public sector and domestic lighting control solutions.

CE ESTA

bsi.	ISO 9001 Quality Management	ISO 14001 Environmental Management	OHSAS 18001 Occupational Health and Safety Management
	FM 45789	EMS 534520	OHS 642036

Ceiling Mounted PIR
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Timers
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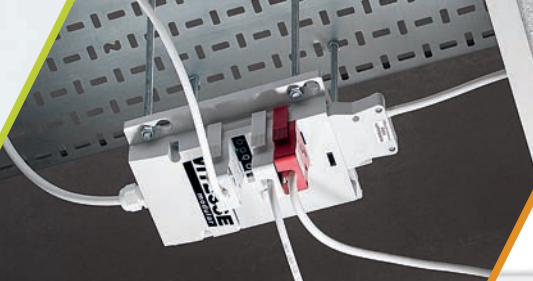
VITESSE modular

5 YEAR WARRANTY
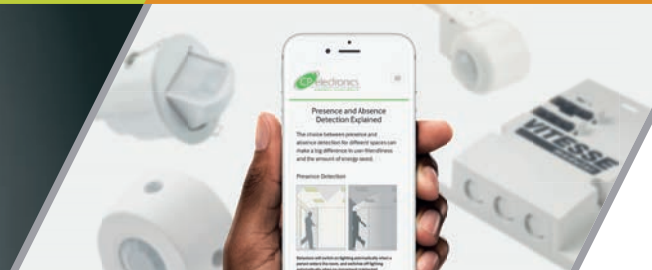
green-i

www.green-i.co.uk

Ceiling Mounted PIR Presence Detectors

Available as flush, surface or batten mounted, these easy to install movement sensors are designed to reduce the amount of time lighting is left on unnecessarily.

Our sensors automatically turn lights on when an area is occupied, and off when an area is vacated. Where lux level sensing is included, lighting will be kept off if there is sufficient natural light, resulting in further savings.

How PIR sensors work

PIR movement sensors work by detecting the movement of body heat. Ideal for spaces where a defined detection pattern is required.

Catalogue Icon Key

Suitable for the control of:

Lighting   Heating   Ventilation

5 YEAR
WARRANTY

green-i

Flush Mounted PIR Presence Detector
GEFL

SUITS LED

A simple to install PIR sensor for small projects working to a budget.

Features

- Presence detection and lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via pots
- Integral power supply
- Suitable for lighting, heating or ventilation
- 5 year warranty

Order Code	Description
GEFL	Basic switching, low profile, IP40, ceiling, flush mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
8A	8A	4A	3A	3A	10s–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

2.8m
6m
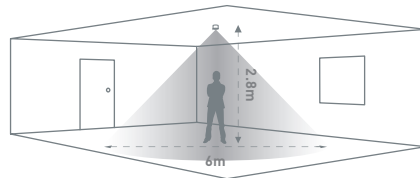
Simple Installation

Attach pluggable connector to sensor.

Sensor is held firmly in place by spring clips.

Set up using pot adjustments.

Push Button Flush Mounted PIR Presence Detector
GEFL-PB

A value packed PIR sensor ideal for post-installation set up – especially in medium spaces and when time is critical.

Features

- Presence detection and lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via push buttons
- Lockable settings
- Integral power supply
- Suitable for lighting, heating or ventilation
- 5 year warranty

Order Code	Description
GEFL-PB	Basic switching, low profile, push button, IP40, ceiling, flush mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
8A	8A	4A	3A	3A	10s–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ⟨ sensitivity ⟩ low

2.8m

6m

Easy push button setup

SUITS LED

Simple Installation

Attach pluggable connector to sensor.

Sensor is held firmly in place by spring clips.

Set up using simple push buttons.

Infrared Programmable Flush Mounted PIR Presence Detector

GEFL-IR

NEW

Program via IR handset

SUITS LED

GEFL-HS

Simple Installation

Attach pluggable connector to sensor.

Sensor is held firmly in place by spring clips.

Adjust with GEFL-HS.

This PIR sensor can be programed post installation with a handy, user-friendly infrared handset, making set up fast and tool free.

GEFL-IR Features

- Presence detection and lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via infrared handset
- Integral power supply
- Suitable for lighting, heating or ventilation
- 5 year warranty

GEFL-HS Features

- Easy to use handset
- Allows in situ programming of GEFL-IR
- Battery operated
- 5 year warranty

Order Code	Description
GEFL-IR	Basic switching, infrared programmable, IP40, ceiling, flush mounted, PIR, presence detector
GEFL-HS	Green-i, compact, infrared, user handset (for use with GEFL-IR & GIMINT)

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
8A	8A	4A	3A	3A	10s–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

Push Button Flush Mounted PIR Presence / Absence Detector

GEFL-PB-ABS

Easy push button setup

SUITS LED
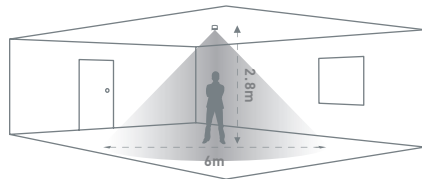
With the advantages of push buttons already built in, this PIR sensor also has absence mode for increased flexibility.

Features

- Presence detection and lux level sensing – auto on, auto off
- Works in presence or absence mode (see technology guide for more information)
- Works with any type of lamp
- Adjust time delay and lux settings via push buttons
- Lockable settings
- Integral power supply
- Suitable for lighting, heating or ventilation
- 5 year warranty

Order Code	Description
GEFL-PB-ABS	Basic switching, low profile, push button, IP40, ceiling, flush mounted, PIR, presence/absence detector

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
8A	8A	4A	3A	3A	10s–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

Simple Installation

Attach pluggable connector to sensor.

Sensor is held firmly in place by spring clips.
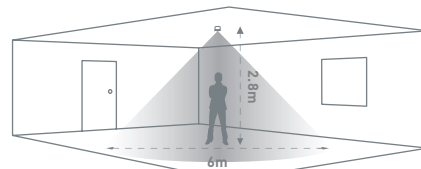

Set up using simple push buttons.

Surface Mounted Push Button PIR Presence Detector

GESM

With its easy push button set up, coupled with a two part surface mount body, this PIR sensor is ideal for first fix installation.

Features

- Presence detection and lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via push buttons
- Lockable settings
- IP54 rated
- Integral power supply
- Suitable for lighting, heating or ventilation
- 5 year warranty

IP54

Easy push button setup

SUITS LED

Order Code	Description
GESM	Basic switching, push button, IP54, ceiling, surface mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
10A	10A	6A	3A	3A	10s–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high < sensitivity > low

2.8m

7m

Simple Installation

Mount the backplate on the ceiling, feed through cables.

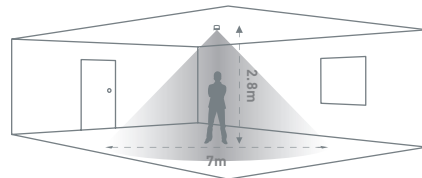Connect wires and clip on sensor.

Set up using simple push buttons.

Adjustable Head Long Range Presence Detector

GIDRC

COMING SOON

24m — Up to 24m range

Easy push button setup

SUITS LED

15°

60°

90°

Adjust head to create required detection pattern.

Simple Installation

Attach pluggable connector to sensor.

Sensor is held firmly in place by spring clips.

Set up using simple push buttons.

This precision detector has a powerful and adjustable PIR sensor. Its long range makes it ideal for corridor applications.

Features

- Presence detection with lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via push buttons
- Adjustable narrow detection pattern – ideal for corridor applications
- Range up to 24m at 2.8m mounting height
- Pluggable connection
- Integral power supply
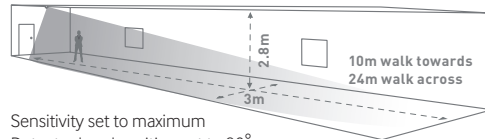- Suitable for lighting, heating or ventilation
- 5 year warranty

Order Code	Description
GIDRC	Basic switching, adjustable head, long range, IP40, ceiling, flush mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
8A	8A	4A	3A	3A	10s to 30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

2.8m

10m walk towards
24m walk across

3m

Sensitivity set to maximum
Detector head position set to 90˚

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Ceiling Mounted PIR Presence Detector
SPIR-F/C

The SPIR-F/C is a surface mounted movement sensor that can be easily mounted onto a single gang standard back box.

Features

- Presence detection and lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via pots
- IP55 rated version available (SPIR-F/C/IP)
- Integral power supply
- Suitable for lighting, heating or ventilation
- 5 year warranty

IP55

SUITS LED

Order Code	Description
SPIR-F/C	Basic switching, ceiling, back box mounted, PIR, presence detector
SPIR-F/C/IP	Basic switching, IP55, ceiling, back box mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
16A	10A	6A	3A	3A	10s–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high < sensitivity > low

2.8m

7m
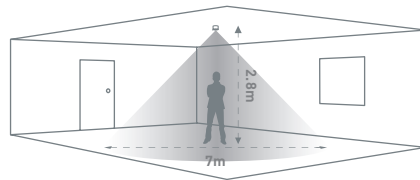
Miniature Batten Mounted PIR Presence Detector

GIMB

A durable retrofit PIR sensor perfect for outdoor use and wash-down areas. Suitable for mounting onto a wide range of luminaires, it comes complete with a fitting kit.

Features

- Presence detection – auto on, auto off
- Range up to 16m at 7m mounting height
- IP65 rated
- Integral power supply
- Pre-wired (1m cable length)
- Suitable for any luminaire with 20mm cable entry
- Suitable for lighting
- 5 year warranty

Application

GIMB uses 20mm cable entry of a batten luminaire.

Order Code	Description
GIMB	Basic switching, miniature, retrofit, IP65, ceiling, luminaire mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
–	2A	2A	2A	2A	10m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

Height	Range
2.8m	9m
7m	16m

IP65

SUITS LED
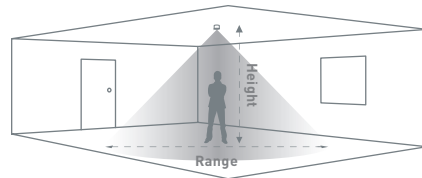
Miniature Luminaire Mounted PIR Presence Detector
GIMINT

COMING SOON

SUITS LED

GEFL-HS

Applications

T8 batten clip.

Louvre reflector clip.

This retrofit miniature PIR sensor can help reduce a lighting installation's energy usage without disrupting the ceiling, and with minimal tools.

Features

- Presence detection and lux level sensing auto on, auto off
- Adjust via infrared handset
- Mounting height up to 7m
- Retrofit solution
- Integral power supply
- Pre-wired (1m cable length)
- Fixings included for T5, T8 battens and louvre reflectors
- Suitable for lighting
- 5 year warranty

Order Code	Description
GIMINT	Basic switching, miniature clip on, retrofit, IP40, ceiling, luminaire mounted, PIR, presence detector
GEFL-HS	Green-i, compact, infrared, user handset (for use with GEFL-IR & GIMINT)

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
2A	2A	2A	2A	2A	20m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high < sensitivity > low
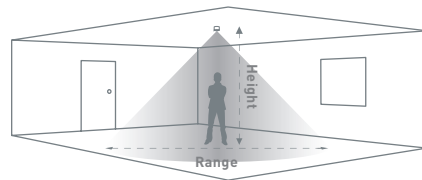
Height	Range
2.8m	9m
7m	16m

Wall Mounted PIR Presence Detectors

Our cost-effective wall mounted sensors fit standard back-boxes, making them simple to fit and set up.

Just like their ceiling mounted counterparts, they react to daylight, keeping lighting off if there's sufficient natural light. Absence sensing is also available on some models.

How PIR sensors work
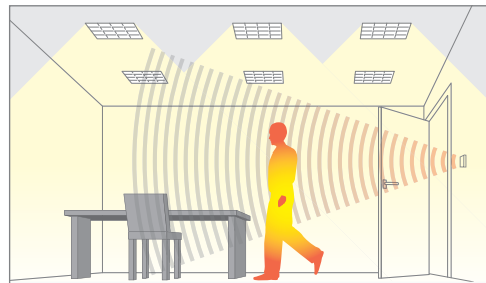
PIR movement sensors work by detecting the movement of body heat. Ideal for spaces where a defined detection pattern is required.

Catalogue Icon Key

Suitable for the control of:

Lighting   Heating   Ventilation

Wall Mounted PIR Presence Detector with Override
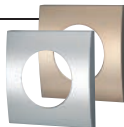
GIPDC

2 WIRE

SUITS LED

With only a two wire set up, this wall PIR sensor is a like-for-like replacement for conventional wall switches.

Features

- Presence detection and lux level sensing – auto on, auto off
- Adjust time delay and lux settings via pots
- Works in presence or absence mode (see technology guide for more information)
- Works with any type of lamp
- Suitable for lighting, heating or ventilation
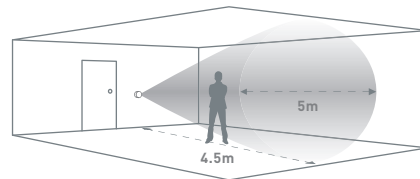- 5 year warranty

Interchangeable cover plates

Order Code	Description
GIPDC	Basic switching, no neutral, switch, wall, back box mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
–	10A	10A	10A	6A	1m–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

5m

4.5m

Order Code	Description
GIFP-ST	Silver effect cover plate
GIFP-BZ	Bronze effect cover plate

Wall Mounted PIR Presence Detector with Override
PDS/OV

2 WIRE

A low cost, wall fit PIR which has a host of features – like-for-like fitting, manual on, auto off option, and lux level sensing to work with natural daylight.

This sensor does not require a neutral connection so it can quickly replace an existing light switch.

Please note: Not suitable for use with LED lamps.

Features

- Presence detection and lux level sensing – auto on, auto off
- Adjust time delay and lux settings via pots
- Suitable for lighting
- 5 year warranty

Order Code	Description
PDS/OV	Basic switching, no neutral, overridable, wall, back box mounted, PIR, presence detector
PDS-ABS/OV	Basic switching, no neutral, overridable, wall, back box mounted, PIR, presence/absence detector

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
–	10A	6A	3A	–	5m–1h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

3–4m
4–6m
5–9m
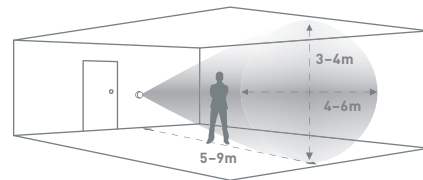
Concealed Fixings Wall Mounted PIR Presence Detector

PDS-PRM

This modern wall PIR detector is a direct replacement for a standard 2 wire switch. Its slim fascia has concealed fixings.

This sensor does not require a neutral connection so it can quickly replace an existing light switch.

Features

- Presence detection and lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via pots
- Suitable for lighting, heating or ventilation
- 5 year warranty

2 WIRE

SUITS LED

Order Code	Description
PDS-PRM	Basic switching, no neutral, concealed fixings, wall, back box mounted, PIR, presence detector
PDS-PRM/S	Basic switching, no neutral, visible fixings, wall, back box mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
10A	10A	10A	10A	10A	1m–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

3–4m
4–6m
5–9m
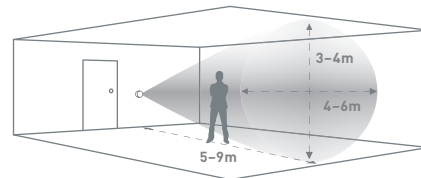
Wall Mounted PIR Presence Detector
PDS

An established, cost effective movement sensor, for direct replacement of standard switches.

This sensor does not require a neutral connection so it can quickly replace an existing light switch.

Please note: Not suitable for use with LED lamps.

Features

- Presence detection and lux level sensing – auto on, auto off
- Adjust time delay and lux settings via pots
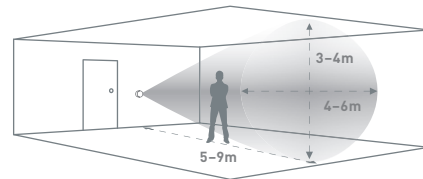- Suitable for lighting
- 5 year warranty

Order Code	Description
PDS	Basic switching, no neutral, wall, back box mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
–	10A	6A	3A	–	5m–1h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

3–4m
4–6m
5–9m

2 WIRE

Concealed Fixings Wall Mounted PIR Presence Detector
SPIR-PRM

A modern PIR wall mounted sensor with neutral connection for increased loads and safety.

It fits a single gang standard switch box or a shallow back box when using the supplied extender.

Features

- Presence detection and lux level sensing – auto on, auto off
- Works with any type of lamp
- Adjust time delay and lux settings via pots
- Suitable for lighting, heating or ventilation
- 5 year warranty

3 WIRE

SUITS LED

Order Code	Description
SPIR-PRM	Basic switching, concealed fixings, wall, back box mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
16A	10A	6A	3A	3A	10s–1h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high ‹ sensitivity › low

3–4m
4–6m
5–9m
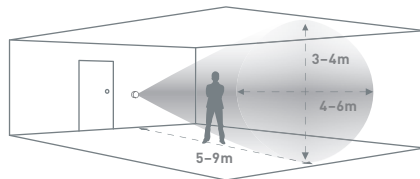
Wall Mounted PIR Presence Detector

SPIR

This wall mounted PIR sensor is available in three versions, basic switching, basic switching with lux level sensing and basic switching with volt free contacts.

Features

- Works with any type of lamp
- Adjust time delay via pots (SPIR-LSF version also adjusts lux settings via pots)
- Suitable for lighting, heating or ventilation
- 5 year warranty

Detection Pattern

high ‹ sensitivity › low

3–4m
4–6m
5–9m

3 WIRE

SUITS LED
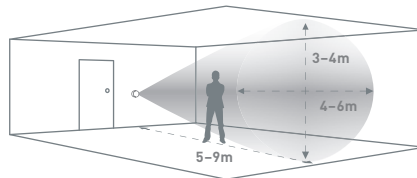
Order Code	Description
SPIR-F	Basic switching, wall, back box mounted, PIR, presence detector
SPIR-LSF	Basic switching, lux level sensing, wall, back box mounted, PIR, presence detector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
16A	10A	6A	3A	3A	10s–1h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Order Code	Description
SPIR-FVF	Basic switching, voltage free option suitable for BMS applications, wall, back box mounted, PIR, presence detector

| Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
10A	10A	6A	3A	3A	10s–1h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Vitesse Modular™ Lighting Connection System

Packed with innovative features, Vitesse Modular is a simple, pluggable, cost effective method of providing power and control for lighting installations.

The system easily slots together and can be expanded up to 16 ways, making it adaptable to a wide variety of room layouts.

Once installed, modules can be added or removed to accommodate new layouts and uses.
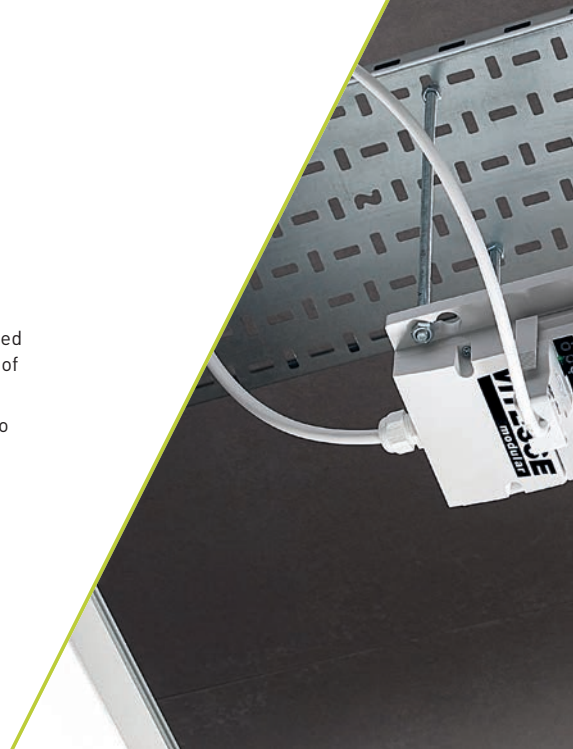
Ideal for industrial, commercial and retail buildings.

Vitesse Modular™ grows and adapts to suit the installation

2-way

4-way

6-way

8-way

10-way

12-way

14-way

16-way

Sample Configuration

2-way Starter Module

Products Used

VITM4-S2 Starter Module

Luminaire Leads
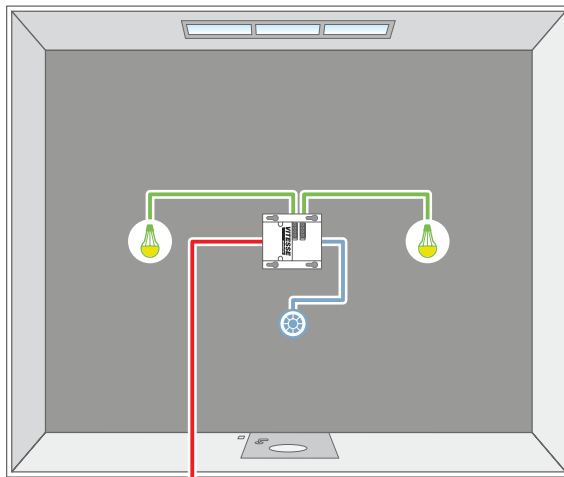
Detector Leads

VITM4 Detector

Presence Detector — Luminaire Leads — Detector Leads — Mains Supply

Sample Configuration

Products Used

VITM4 Starter Module

VITM4 Extender Module
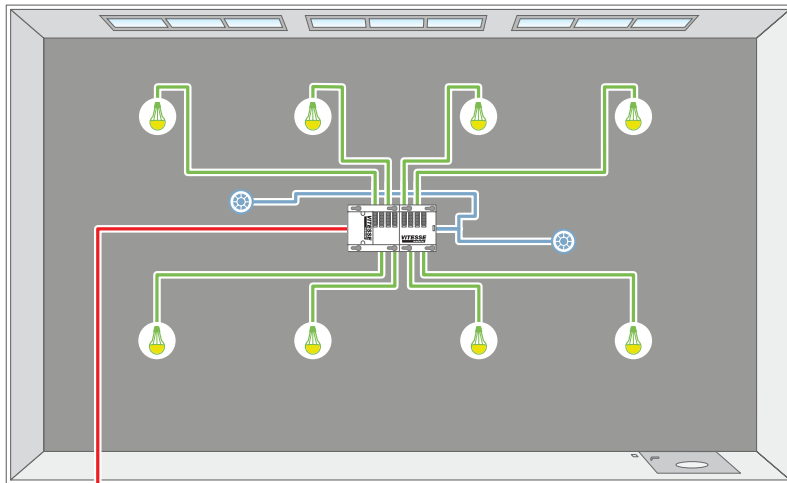
Luminaire Leads

Detector Leads

VITM4 Detector

4-way Starter Module + Extender Module

- Presence Detector
- Luminaire Leads
- Dual Detector Leads
- Mains Supply

Sample Configuration

Products Used

VITM4 Starter Module

VITM4 Extender Module

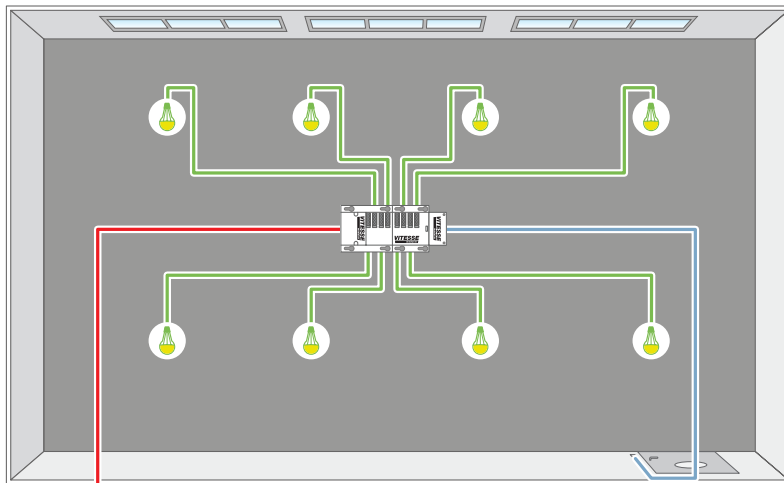**Switching Module**

Luminaire Leads

4-way Starter Module + Extender Module + Switching Module

Luminaire Leads   Switching Supply   Mains Supply

Sample Configuration

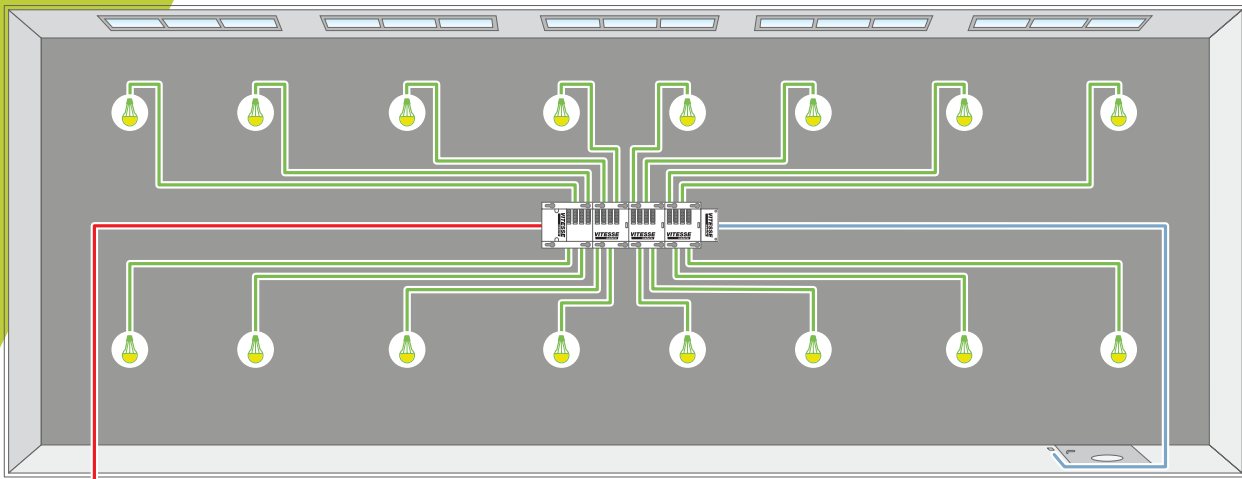## Suggested Products

VITM4 Starter Module

VITM4 Extender Module

Switching Module

Luminaire Leads

● Luminaire Leads   ● Switching Supply   ● Mains Supply

2-way Starter Module
VITM4-S2

NEW

This 2-way starter module offers a low cost entry point when only two outputs are required.

The addition of extender modules provides the ability to configure 6, 10 and 14 way combinations.

Features

- This two-way starter module provides power and control for lighting installations.
- Once it's installed, modules can be easily added or removed depending on future requirements and layouts.
- Suitable for lighting
- 5 year warranty

Configuration options
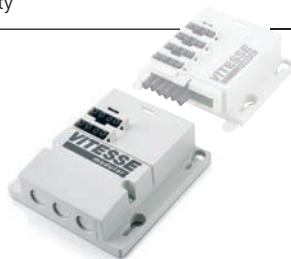
Order Code	Description
VITM4-S2	Starter module, switching, 4 pole, 2 outputs

Dimensions (mm)

145
127
105
159

Compatible with selected presence detectors

4-way Starter Module
VITM4-S

The VITM4-S can be used as a standalone unit providing 4 outputs or can be extended to 8, 12 or 16 outputs.

Features

- This four-way starter module provides power and control for lighting installations.
- Once it's installed, modules can be easily added or removed depending on future requirements and layouts.
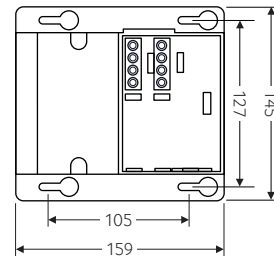- Suitable for lighting
- 5 year warranty

Configuration options
See Page 28

Order Code	Description
VITM4-S	Starter module, switching, 4 pole, 4 outputs

Dimensions (mm)

145
127
150
202
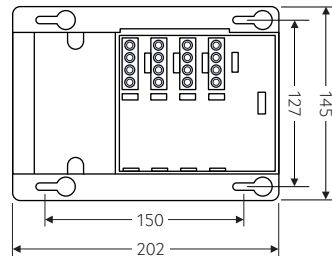
Compatible with selected presence detectors
See Page 38

Pre-wired Switching Package
VITM4-SL1

The pre-wired switching package provides a simple ready-to-go solution for the connection of up to 4 luminaires.

Features

- The package includes a 4-way starter module, a ceiling rose, 4 pole connector plug and 1 metre of cable.

- Can be extended to, 8, 12 or 16 outputs using the Extender Module

- Suitable for lighting

- 5 year warranty

Order Code	Description
VITM4-SL1	Pre-wired, starter module package, switching, 4 pole, 4 outputs, 4 pole ceiling rose and connector, 1m lead

Extender Module
VITM4-E

The extender module is used to increase the number of outputs for the 2-way or 4-way starter modules.

Features

- A total of three extender modules can be easily added to either starter module to create an up to 16-way lighting connection system. Vitesse Modular can be reconfigured at any time should requirements change.

- Suitable for lighting

- 5 year warranty

Configuration options
See Page 28
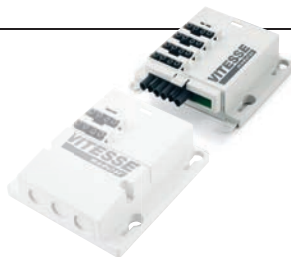
Order Code	Description
VITM4-E	Extender module, switching, 4 pole, 4 outputs

Dimensions (mm)

145
127
75
122
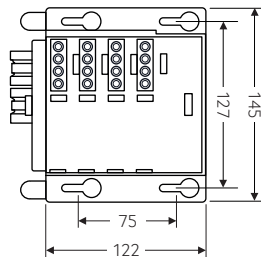
Switching Module
VITM4-SELVMOD

The switching module can be added to any combination of starter and extender modules.

SELV (safety extra low voltage) module removes the need for mains voltage switch wires and RCD to comply with IEE 17th Edition regulations.

Features

- Allows switches in parallel for two way, and mimics intermediate switching
- Built in time delay function.
- See pages 31 & 32 for application diagrams
- Suitable for lighting
- 5 year warranty

Configuration options
See Page 28

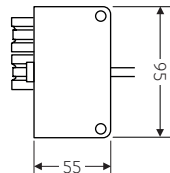| Order Code	Description
VITM4-SELVMOD	SELV module, switching

Dimensions (mm)

95

55

Flush Mounted PIR Presence Detectors
VITM4-EBDSPIR-B

SUITS LED

The VITM4-EBDSPIR adds presence detection functionality to Vitesse Modular when required.

The detector can be mounted either flush into a ceiling tile or using a surface mounting box. The low profile design means the unit can be mounted in a narrow ceiling void. No external control boxes are required as the unit is self contained.

Features

- Presence detection and lux level sensing – auto on, auto off
- Adjust time delay and lux settings via pots
- Integral power supply
- Pre-wired (3m cable length)
- Suitable for lighting
- 5 year warranty

Order Code	Description
VITM4-EBDSPIR-B	Basic switching, compact, IP40, ceiling, flush mounted, PIR, presence detector, c/w 3m lead
VITMR-EBDSPIR-B	Basic switching, compact, IP40, ceiling, flush mounted, PIR, presence detector, c/w 3m lead, plug and ceiling rose connector

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
8A	8A	6A	3A	3A	10s–30m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Detection Pattern

high < sensitivity > low
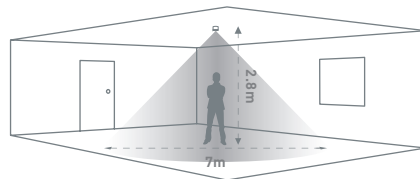
Leads & Connectors
VITM4

Quality assured, pre-wired detector and luminaire leads reduce installation times and ensure reliability. Individual connectors and ceiling rose kit provide additional flexibility.

DETECTOR LEADS

	Order Code	Description
	VITM4-L3-B	4 pole, 3m, 1mm², single detector lead, for basic switching, single channel
	VITM4-L5-B	4 pole, 5m, 1mm², single detector lead, for basic switching, single channel
	VITM4-LD3-B	4 pole, 3m, 1mm², dual detector lead, for basic switching, single channel

LUMINAIRE LEADS

	Order Code	Description
	VITM4L303100W	4 pole, 3 core, 3m, 1mm², LSF, luminaire lead, white plug
	VITM4L305100W	4 pole, 3 core, 5m, 1mm², LSF, luminaire lead, white plug
	VITM4L403100R	4 pole, 4 core, 3m, 1mm², LSF, luminaire lead, red plug
	VITM4L405100R	4 pole, 4 core, 5m, 1mm², LSF, luminaire lead, red plug

LUMINAIRE LEAD CONNECTORS

	Order Code	Description
	VITM4-LPW	4 pole, male connector, white plug
	VITM4-LPR	4 pole, male connector, red plug

CEILING ROSES

	Order Code	Description
	VITM-ROSE	4 pole, female ceiling rose, c/w white male connector plug

Surface mounted controller for air conditioning

GESM-AC

NEW

How the AC controller works
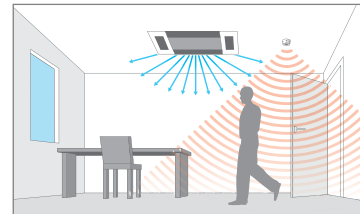
The GESM-AC detects presence and regulates air conditioning use based on room occupancy. As a result, significant energy savings can be made.

Easy push button setup

Easy to set up

Press ☼ once to engage learn mode (on).

X1

Point the air conditioning remote at the GESM-AC and press on.

Press ☼ twice to engage learn mode (off).

X2

Point the air conditioning remote at the GESM-AC and press off. The controller is then set.

This AC controller simply 'learns' an AC unit's infrared code, then controls it's occupancy. With surface mounted battery powered installation, disruption is kept to a minimum.

Features

- Compatible with most infrared controlled AC units
- Battery operated
- Presence detection - auto on, auto off
- Adjust time delay settings via push buttons
- Lockable settings
- Sleep mode extends battery life
- 5 year warranty

Order Code	Description
GESM-AC	Surface mount AC controller

Detection Pattern   high ‹ sensitivity › low

2.8m

7m
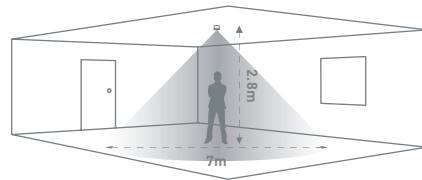
Timers

Two and three wire (neutral) versions of our products are available. Three wire switches can manage different loads with increased electrical safety.

Push Button Time Delay Switch

ELLIPSE

2 WIRE

The ELLIPSE is cost effective and easy to install, combining push button operation with electronic reliability.

Features

- Suitable for lighting
- Adjust time delay settings via rear adjustment pots
- 5 year warranty

Order Code	Description
ELLIPSE	No neutral push button time lag switch
ELLIPSE-TN	No neutral push button time lag switch complete with neon

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
–	10A	10A	10A	–	20s–20m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Neon Version

Push Button Time Delay Switch

GITLC

This low profile no-neutral timer can control a range of loads up to 10 Amps. It has an LED light ring to aid location in low light conditions.

Features

- Suitable for lighting, heating or ventilation
- Adjust time delay settings via pots
- Stylish green LED ring
- 5 year warranty

2 WIRE

SUITS LED
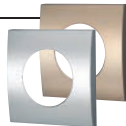
Order Code	Description
GITLC	No neutral time delay switch

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
–	10A	10A	10A	10A	1m–30m, 15m–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Interchangeable cover plates

Order Code	Description
GIFP-ST	Silver effect cover plate
GIFP-BZ	Bronze effect cover plate

Push Button Timer
MRT16-PB

This simple to use push button timer can be used for a wide range of applications, and has an easy to set adjustable timing period.

Pushing the button activates the circuit and starts the timing period (this is easily adjustable and is set at installation to any time between 1 second and 2 hours).

Features

- Suitable for lighting, heating or ventilation
- Works with any type of lamp
- Adjust time delay settings via pots
- 5 year warranty

Neon Version

Order Code	Description
MRT16-PB	Push button timer
MRT16-PB/TN	Push button timer with temporary neon
SLV1	Slave push button
SLV1N	Slave push button with neon

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
16A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Order Code	Description
MRT16-PB/VF	Push button timer c/w voltage free contact

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
10A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

3 WIRE

SUITS LED

Push Button Timer
MRT-PRM
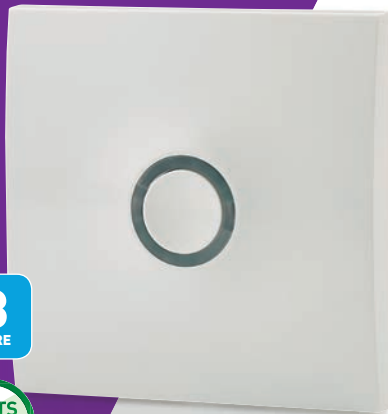
A stylish, low profile timer with simple push button operation, tamper resistant plate and LED locator light – ideal for use in communal spaces.

Pushing the button activates the circuit and starts the timing period (this is easily adjustable and is set at installation to any time between 1 second and 2 hours).

Features

- Suitable for lighting, heating or ventilation
- Works with any type of lamp
- Adjust time delay settings via pots
- Stylish red LED ring
- 5 year warranty

3 WIRE

SUITS LED

Order Code	Description
MRT-PRM	Push button timer with temporary LED

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
16A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Touch Activated Time Lag Switch
KH2

💡

2 WIRE

A robust timer with tamper resistant touch pad operation. It is easy to operate and has a fully adjustable timing period.

The neon indicator on the KH2N allows it to be easily located in low light conditions.

Please note: Not suitable for use with LED lamps.

Features

- Adjust time delay settings via pots
- Suitable for lighting
- 5 year warranty

Neon Version

Order Code	Description
KH2	No neutral touch activated time lag switch
KH2N	No neutral touch activated time lag switch complete with neon

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
–	10A	10A	10A	–	10s–20m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Touch Activated Timer
MRT16-TA

3 WIRE

SUITS LED

This robust timer is suitable for a range of loads by including a neutral connection. It is easy to operate and has a fully adjustable timing period.

The timer is also available in temporary neon, permanent neon and voltage free contact versions.

Features

- Suitable for lighting, heating or ventilation
- Works with any type of lamp
- Adjust time delay settings via pots
- 5 year warranty

Neon Version

Order Code	Description
MRT16-TA	Touch activated timer
MRT16-TA/TN	Touch activated timer with temporary neon
MRT16-TA/PN	Touch activated timer with permanent neon

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
16A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Order Code	Description
MRT16-TA/VF	Touch activated timer c/w voltage free contact

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
10A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Weather Proof Touch Activated Time Lag Switch

KH3

The KH3 is housed in a tough surface mount IP66 weatherproof housing – ideal for heavy use and wash down areas.

It is a robust timer with easy to use, tamper resistant touch pad operation. It has a fully adjustable timing period.

The neon indicator on the KH3N allows it to be easily located in low light conditions.

Please note: Not suitable for use with LED lamps.

Features

- Suitable for lighting
- Adjust time delay settings via pots
- IP66 rated
- 5 year warranty

2 WIRE

IP66

Order Code	Description
KH3	No neutral weatherproof touch activated time lag switch
KH3N	No neutral weatherproof touch activated time lag switch complete with neon

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
–	10A	10A	10A	–	10s–20m

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Neon Version

Weather Proof Touch Activated Timer
MRT16-WP

This timer is housed in a tough surface mount IP66 weatherproof housing, making it ideal for outdoor environments or wash-down areas.

With its 3-wire specification it is suitable for a range of loads with increased safety.

The adjustable time on period is started by pressing the tamper resistant touch pad on the front of the switch. The MRT16-WP is also available in temporary and permanent neon versions.

Features

- Suitable for lighting, heating or ventilation
- Works with any type of lamp
- Adjust time delay settings via pots
- IP66 rated
- 5 year warranty

Order Code	Description
MRT16-WP	Touch activated timer with IP66 rating
MRT16-WP/TN	Touch activated timer with IP66 rating and temporary neon
MRT16-WP/PN	Touch activated timer with IP66 rating and permanent neon

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
16A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Neon Version

Remote Activated Timer

MRT16-REM

A simple but capable timer with tamper resistant faceplate.
It has neutral connection making it suitable for a range of loads. It can also operate remotely so is ideal for communal areas.

Features

- Suitable for lighting, heating or ventilation
- Works with any type of lamp
- Adjust time delay settings via pots
- 5 year warranty

Order Code	Description
MRT16-REM	Remote activated timer
MRT16-REM/VF	Remote activated timer c/w voltage free contact

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
16A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

3 WIRE

SUITS LED

Remote Activated Timer
MRT-REM-PRM

A modern, low profile, tamper resistant timer with hidden fixings. It has a neutral connection making it suitable for a range of loads. It can also operate remotely so is ideal for communal areas.

Features

- Suitable for lighting, heating or ventilation
- Works with any type of lamp
- Adjust time delay settings via pots
- 5 year warranty

3 WIRE

SUITS LED

Order Code	Description
MRT-REM-PRM	Low profile remote activated timer

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
16A	10A	6A	3A	3A	1s–2h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

High Output Run Back Timer
RBT1

This timer's high 20 Amps output makes it ideal for immersion heater control. Appliances can be powered for a set time and adjusted further by the user.

A simple display shows the user how much time is left to run. An ON / OFF switch allows the user to cancel the timing program whilst a memory remembers the last timing sequence selected.

Features

- Adjust time delay settings via push button
- Suitable for lighting, heating or ventilation
- 5 year warranty

Order Code	Description
RBT1	High output run back timer

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
20A	6A	6A	3A	No LED	15m–2h (adjustable in 15m increments)

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

TIME

```
2        1 3/4
1 1/2    1 1/4
1        1
1/2      3/4
         1/4
```

HOURS

ON/OFF

Plate Mounted Adjustable Boost Timer

RBT2

With simple one-button operation, this electronic boost timer provides effective control for a range of loads.

The unit allows an appliance to be powered for a set time period which can be adjusted by the user. A simple LED display indicates how much time is left to run, and its 'Night Light' feature illuminates all the LEDs when the unit is not in use to allow ease of location in the dark.

Pressing and releasing the switch whilst the unit is in operation allows the user to cancel the timing. A memory function remembers the last timing selected.

Features

- Adjust time delay settings via push button
- Suitable for lighting, heating or ventilation
- 5 year warranty

Order Code	Description
RBT2	Plate mounted adjustable boost timer

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
16A	10A	6A	3A	6A	15min–30min, 1hr or 2 hrs

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

15 min
30 min
1 hour
2 hour

electronic timer
press to start / stop
press & hold to change time

SUITS LED

Emergency Lighting Test Switch

Automatic key operated emergency lighting test switch, permanently wired to the emergency luminaire supply.

A key switch is used to interrupt the supply to the luminaires for a pre-programed period of time. At the end of the time period the supply to the luminaires is automatically re-instated.
The result is that there is no risk of depleting the batteries in the emergency fitting.

How it works

Supply on

Ten minute test

One hour test

Three hour test

Automatic Emergency Lighting Test Switch
ELT10

The ELT10 emergency lighting test switch is designed to test the function of emergency luminaires.

Features

- Suitable for lighting
- Key operated switch for secure access
- Three pre-set test periods
- 5 year warranty

Order Code	Description
ELT10	Automatic emergency lighting test switch, single channel

Load Rating at 230VAC					Time Delay
R	**I**	**F**	**CFL**	**LED**	
–	–	6A	3A	6A	–

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp
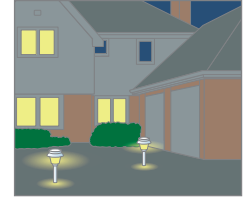
Light Level Controls

Ideal for applications such as external security lights or display lighting at night.

This will switch on external lighting when light levels drop below a pre-set level. Lighting can then be switched off after a preset time or when the background light is adequate again.

Sufficient daylight, lights off   **Insufficient daylight, lights on**

The photocell within the sensor ensures that lights will not be switched on until ambient lux levels drop below a preset value, and will be switched off at a preset time or once the desired lux level is reached.

Surface Mounted Photocell Switch

ALC15

The ALC15 twilight switch will turn lighting on when the ambient light falls below a preset level.

Features

- Suitable for lighting
- Works with any type of lamp
- Adjust time delay and lux settings via pots
- IP66 rated
- 5 year warranty

IP66

SUITS LED

Order Code	Description
ALC15	Robust, IP66, surface mounted, wall, photocell switch, basic switching

Load Rating at 230VAC					Time Delay
R	I	F	CFL	LED	
10A	8A	6A	3A	6A	0–16h

R = Resistive **I** = Incandescent **F** = Fluorescent **CFL** = Compact Fluorescent Lamp

Technology Guide

Visit Knowledge Hub for more
technology information:
cpelectronics.co.uk/knowledge-hub

Presence and absence detection explained

Presence detectors (also known as occupancy sensors and movement/motion sensors) can be set for presence or absence detection (subject to model), depending on room usage and / or specific regulations.

Presence mode

Absence mode

Devices sense occupancy automatically so switch on light when a room is occupied, and off when the room is empty.
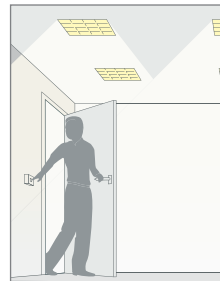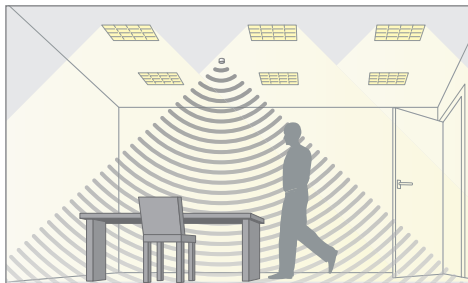
Requires a user to manually switch lights on. Occupancy sensors switch lights off when the room is empty.

Lux level sensing explained

Sensors with lux level functionality can save even more energy. They react to daylight, ensuring that lights stay off if there is sufficient natural light. They'll only turn lights on when natural light falls below a pre-set level.
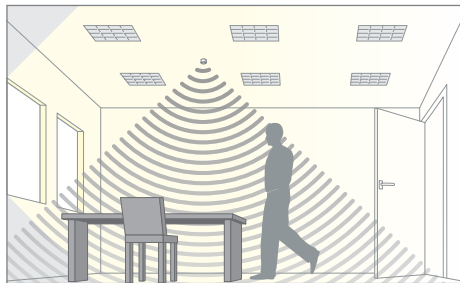
Sensors without lux level functionality are ideally suited to switch lighting in rooms without any natural light.

No lux sensing

Presence detected, sensors automatically switch lights on. No presence detected, lights off.

Lux sensing

Presence detected, but lights only switch on when daylight falls below a minimum level.

Please note, detection patterns shown within this brochure are used a guideline. For detailed information please refer to our Product Installation Guides that are found at www.cpelectronics.co.uk

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Glossary

2-wire switch

These products don't require a neutral connection.

3-wire switch

These products require a neutral connection.

Absence detection

Requires a user to manually switch lights on. Occupancy sensors switch lights off when the room is empty.

BMS (building management system)

A system that controls and monitors building's mechanical and electrical equipment

Catalogue Icon Key

Suitable for the control of:

Lighting   Heating   Ventilation

HVAC

Heating, Ventilation & Air Conditioning.

Lux level sensing

Lux level sensing detectors only turn lights on when natural light falls below a pre-set level.

Neon (permanent)

A permanent neon allows a switch to be easily located in the dark.

Neon (temporary)

A temporary neon indicator shows when the timer is running.

PIR presence detectors

PIR presence detectors work by detecting the movement of body heat.

Slave switch

Slave push button switches allow one timer to be controlled from a number of locations. Also known as a bell switch.

SELV module (safety extra low voltage)

Removes the need for mains voltage switch wires and RCD to comply with IEE 17th Edition regulations.

Timeout

The period of time set on a sensor that holds lights on after the last movement is detected.

User remote control (GEFL-HS)

Pre-program light levels to recall at anytime or use simply to operate lights on/off.

Volt free contacts

The output channel comprises a mains voltage relay capable of on/off switching. The unit provides an isolated voltage free contact output.

 IP Ratings

IP40

Protected from tools and small wires greater than 1mm. Not protected from liquids.

IP54

Protected from limited dust ingress. Protected from water spray from any direction.

IP55

Protected from limited dust ingress. Protected from low pressure water jets from any direction.

IP65

Protected from total dust ingress. Protected from low pressure water jets from any direction.

IP66

Protected from total dust ingress. Protected from high pressure water jets from any direction.

Our family of energy saving controls and services

COMMISSIONING

CPD SEMINARS

CP ELECTRONICS

MAINTENANCE

PRODUCT TRAINING
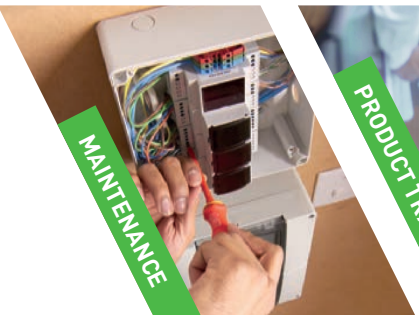
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