





Flexibility, Reliability and Simplicity at **Your Fingertips**

CP Electronics has built a global reputation for innovative, reliable, energy-saving lighting control systems. Now new Vitesse Plus heralds the next step in lighting control, with simple commissioning and total flexibility. It's a full 7-channel system that's ideal for education, commercial and retail spaces - anywhere that needs to control energy costs without affecting user convenience.

Time-saving pre-set menu

Some lighting control systems need time-consuming and costly expert programming. In contrast, the new Vitesse Plus system features a built-in pre-set configuration menu that allows the installer to configure the system quickly and intuitively for any location.

BIM ready

Its innovative design also helps the education sector meet emerging legislation and guidelines for classroom lighting control, including building information modelling (BIM) and Education Funding Agency (EFA) directives.

Controlling any light source, any building, any space.



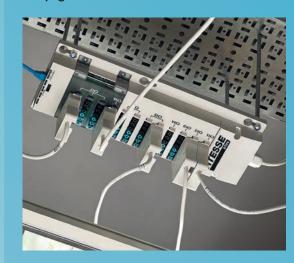




Simple to install

With plug-in modular components the new Vitesse Plus 7-channel system is easy to install and set up, saving time and money.

See pages 7





- Corridor Hold
- SELV Switching
- Emergency Lighting Test
- Scene Setting
- See page 6



Innovative products

of lighting, presence and absence detectors, switches and scene-setting plates to suit your environment; Vitesse Plus seamlessly controls them all.

See pages 13-16



Introduction to Vitesse Plus

capability of 7-channel technology.

How pre-set configurations work......

Installation and connectivity

Discover the latest generation in lighting control, with

intuitive control, pre-set configurations and the full

Education.... Commercial/retail......

System Products

Discover the full range of lighting control products that can be controlled via the Vitesse Plus system, including the latest presence and absence detectors, switching and scene-setting plates.

1	Lighting control modules
1	Scene control
14–1	Presence detectors
1	Handsets
1	Accessories
1	Luminaire leads and connecte

Technology Guide

Learn more about the innovative features of our product ranges.

Presence and absence detection explained	.17
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Switching detectors with lux level sensing	.18
Maintained illuminance with absence or	
presence detection	.18
Graduated dimming	.19

Service Philosophy/Case Studies

Users in all sectors are discovering how Vitesse Plus can deliver a bespoke lighting environment with lower energy costs and reduced environmental impact. And the CP Electronics team is always ready to provide full technical support, whether on site, online or on the phone.

Our service prinosophy	U
Case studies 2	.1



View our introductory Vitesse Plus video at www.cpelectronics.co.uk/vitesse-plus





7-channel technology

Complete control of any space, with superior flexibility; choose any combination of lighting, detectors and switches to suit the space and its users.

See page 12



Control at your fingertips

The Vitesse Plus handset offers access to a menu of pre-set configurations to set up spaces quickly and intuitively. Features like corridor hold and graduated dimming are easy to set up and control.

See page 5



How Pre-set Configurations Work

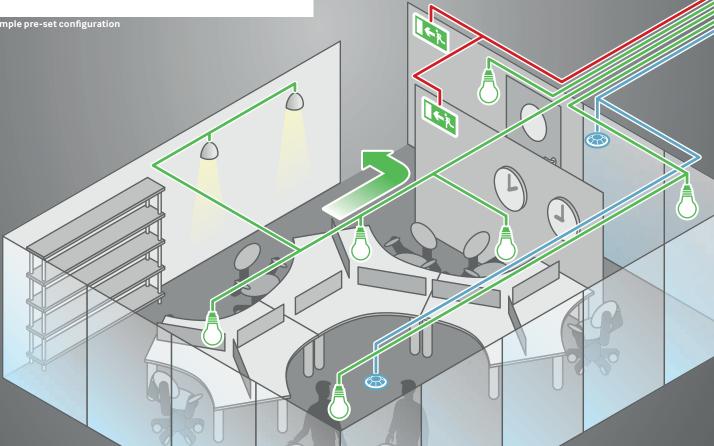
In the past, programming the right configuration for a specific application has required specialist skills. Not any more: the pre-set configurations within the latest Vitesse Plus system are easily accessed by the installer and end user.

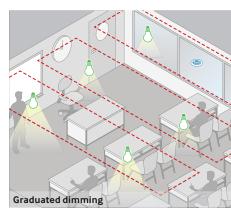
Match pre-sets to your application

We have developed a collection of pre-set configuration schematics that can be matched to your requirements. imply find your application within our online library or our handy booklet, and programme using our handset's intuitive, user-friendly menu. With just a few simple button pushes, your system is set up. Alternatively, you can customise elements individually to achieve your own

A sophisticated, 7-channel lighting control system like Vitesse Plus offers a near-infinite choice of configurations, making it fully adaptable to the building space.







Feature Packed

energy consumption and over-lighting of the space.

The lighting within a space dims progressively from the source of

natural illuminance in response to changes in natural light levels.

This maximises the use of daylight within a space and minimises

To allow safe local egress lighting a simple corridor hold output

is provided via a pluggable connector on the lighting control module. If any of the control outputs are 'on' any other lighting control module connected via the corridor hold output will also

be 'on'. By connecting the corridor hold between Vitesse Plus lighting control modules, simple notional corridor routes can

The new Vitesse Plus lighting control module has 18 SELV inputs. Up to 5 centre biased retractive switches can be connected as

This allows cabling for manual switches to be non-mains rated and without the need for mechanical protection, saving you time

Graduated dimming

Corridor hold

SELV switching

well as an ELT keyswitch.

be created.







Emergency lighting test

Open port function

Scene setting

an environment.

Dedicated SELV input allows for a local emergency test on the

The LCM can be programmed via a connected presence detector

Scene selection allows the recall of pre-programmed lighting

levels to create different moods or to suit different uses within

using our professional commissioning LCD programming handset, UNLCDHS. This is ideal for when access to an LCM is limited.

LCM. This can be linked across a number of LCMs to allow

emergency test of a large open plan office for example.

Simple Installation and Connectivity

Vitesse Plus has been designed with the installer in mind and provides easy installation options for all mounting locations.

and outputs are pluggable using industry standard connectors as shown in the typical



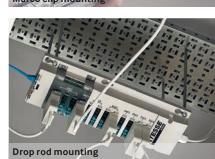






The mains input is connected using the spacious wiring compartment; and control inputs





connections Vitesse Plus has been designed for

Versatile wiring

hassle-free wiring on-site.



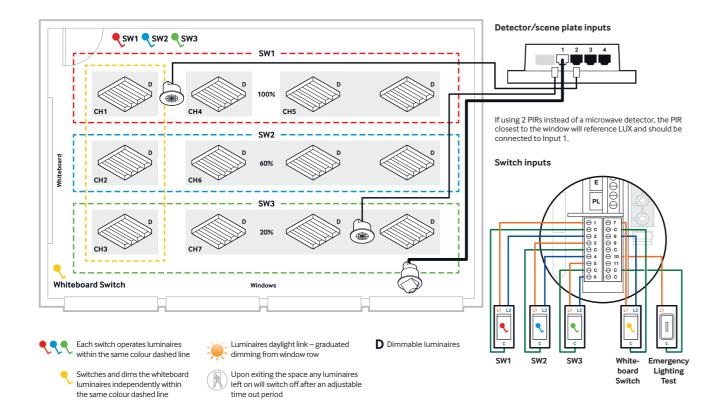
Education

Designed to help the education sector meet emerging legislative requirements for classroom lighting control.

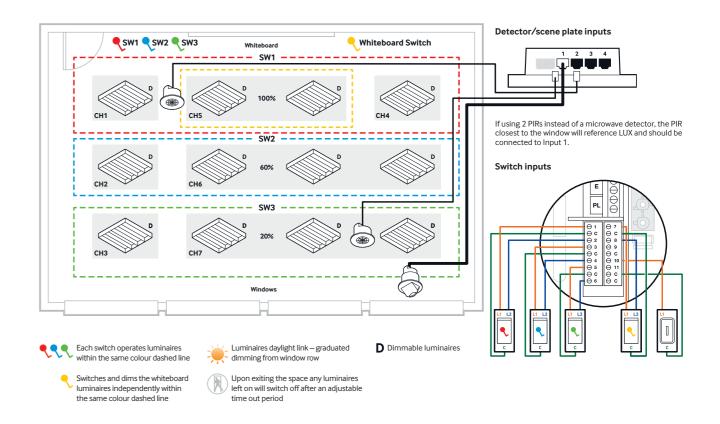


- Graduated dimming The lighting within a space dims
 progressively from the source of natural illuminance in
 response to changes in natural light levels. This maximises
 the use of daylight within a space and minimises energy
 consumption and over lighting of the space.
 (Please see page 19).
- Scene setting Scene selection allows the recall of pre-programmed lighting levels to create different moods or to suit different uses within an environment.
- Absence recovery This initiates presence mode in absence applications after a detector timeout period has elapsed. The default for this is 10 seconds. There is also a fade time with a pre-set default of 5 minutes, this means that any dimmable luminaires will dim down to 20% to give a visual indication that the fade time period has started. (Please see page 17).
- Switch detection time This ensures that if a switch is activated to turn the lighting on and no occupancy is detected within 10 seconds of the switch being pressed, the lighting will turn off. (Please see page 17).
- Default pre-set configurations for all education applications — A series of inbuilt pre-set configurations designed specifically for the education sector ensure that the lighting control is flexible and intuitive and does not impinge on the teaching environment. It also allows for education spaces to be easily reconfigured with minimal disruption.

Config 10 – Classroom with 3 rows of luminaires working in absence mode. Whiteboard on channels 1, 2 and 3.

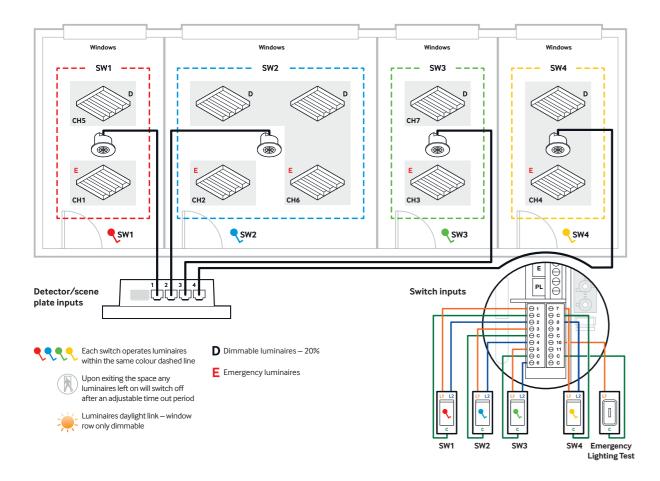


Config 13 – Classroom with 3 rows of luminaires working in absence mode. Whiteboard on channel 5.

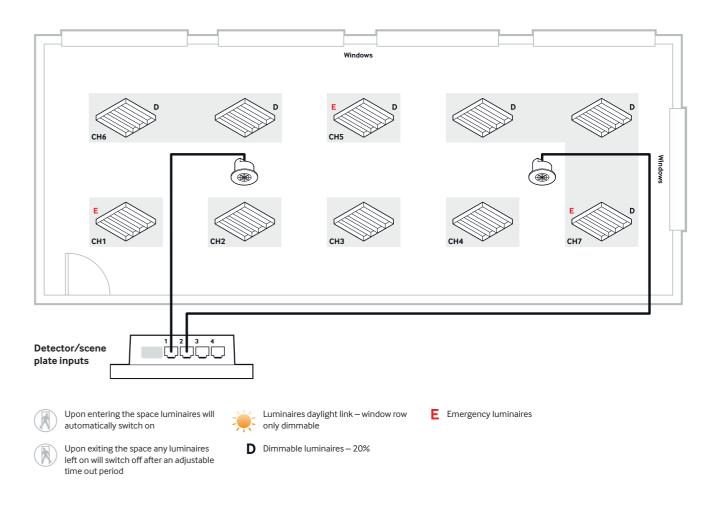




Config 1-4 cellular offices individually controlled with a presence detector and or manual switch in each.



Config 3 – Open plan office working in presence mode with channels 5, 6 and 7 daylight dimming for perimeter row(s).



System Products
System Products

Vitesse Plus Lighting Control Modules



The latest generation of Vitesse Plus LCM has been engineered to adapt to changing environments.

With 7 channels and 12 outputs, the installation process is simplified. Up to 6 PIRs or 3 microwave detectors can be connected to the Vitesse Plus LCM, maximising the capacity to save energy and money.

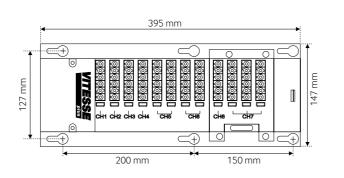
With 18 SELV connections and the ability to facilitate graduated dimming, the Vitesse Plus LCM takes lighting control to the next level of functionality.

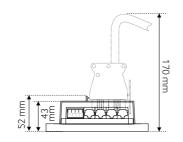
Key features:

- 12 outputs
- 7 channels
- 4 RJ45 inputs
- SELV switching
- DALI or DSI dimming
- Graduated dimming
- Scene setting
- Absence recovery
- Switch detection time

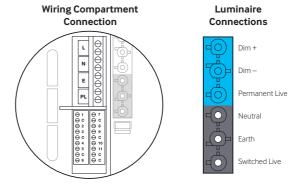
Order Code	Description
VITP7-MB	Pluggable LCM, 7 x switching channels
VITP7-MB-DD	Pluggable LCM, 7 x DALI/DSI digital dimming channels
Maximum number of DIMMARI F hallasts = 10 per channel or 50 per LCM subject to electrical load constraints	

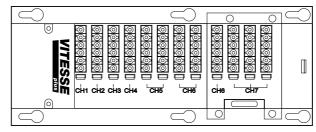
Dimensions

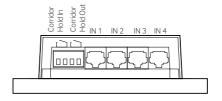




Connections







Scene Control Plate



Scene selection allows the recall of pre-programmed lighting levels to create different moods or to suit different uses within an environment.

When used in conjunction with VITP7-MB and suitable dimming luminaires different lighting scenes can be achieved for applications such as classrooms and meeting rooms.

Order Code	Description
VITP7-4SC-W	Scene plate with white cover
VITP7-4SC-SS	Scene plate with stainless steel cover

System Products System Products

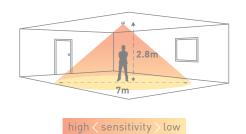
Vitesse Plus Presence Detectors



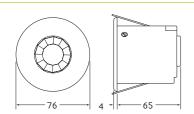
Compact PIR

- Low profile design
- RJ45 connection
- Can be flush or surface mounted (see page 16)
- Infrared programmable

Detection pattern



Dimensions



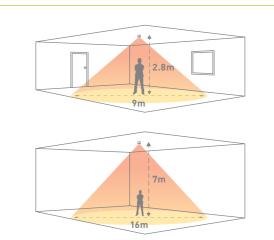
Order Code	Description
VITP7-EBDSPIR	Compact, flush/surface mounted, ceiling, PIR, presence/absense detector



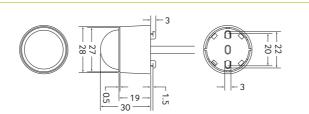
Miniature PIR

- Small and unobtrusive design
- RJ45 connection supplied with 300mm lead
- Multiple mounting options included
- Infrared programmable

Detection patterns



Dimensions



high < sensitivity > low

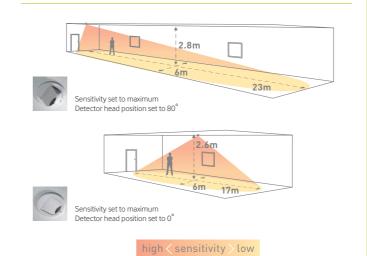
Order Code	Description
VITP7-MINPIR	Miniature, flush/surface/side mounted, ceiling, PIR, presence/absence detector
RJ45-COUPLER	RJ45 coupler



Adjustable head microwave

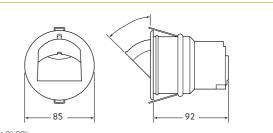
- Adjustable head
- Adjustable detection sensitivity
- RJ45 connection
- Can be flush or surface mounted (see page 16)
- Ideal for corridors or corner mounted applications
- Infrared programmable

Detection patterns



Dimensions

VITP7-MWS3A



microwave, presence/absence detector

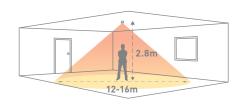
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Order Code	Description
VITDZ MWC2A	Adjustable head, flush/surface mounted, ceiling,



Compact microwave

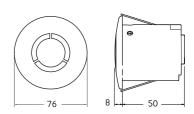
- Adjustable detection sensitivity
- RJ45 connection
- Can be flush or surface mounted (see page 16)
- Various regional frequencies
- Infrared programmable

Detection pattern



high < sensitivity > low

Dimensions



Order Code	Description
VITP7-MWS6	Low profile, flush/surface mounted, ceiling, microwave, presence/absence detector

Vitesse Plus Accessories



Handsets

Used to programme pre-set configurations.

Order Code	Description
UNLCDHS	Professional, programming/commissioning LCD handset



Tee modules

Used to provide a simple interlinking connection of lighting within fixed wiring installations.

Order Code	Description
BVITM6-L3T500	6 pole, 3 core, 0.5m lead, 1mm², tee module, white housing, black/grey coding
BVITM6-L4T500	6 pole, 4 core, 0.5m lead,1mm², tee module, white housing, black/grey coding
BVITM6-L5T500	6 pole, 5 core, 0.5m lead,1mm², tee module, white housing, black/grey coding
BVITM6-L6T500	6 pole, 6 core, 0.5m lead,1mm², tee module, white housing, black/grey coding

Accessories

Order Code	Description
DBB	Surface mount box for use with VITP7-MWS6 and VITP7-EBDSPIR
MWS3A-DBB-WBKRT	Wall mounting bracket for MWS3A series



Luminaire leads and connectors

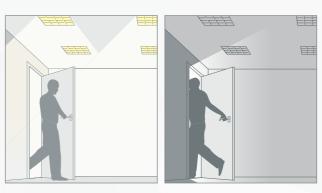
All Vitesse Plus models use black/blue connectors.

Order Code	Description
BVITM6L303100W	6 pole, 3 core, 3m, 1mm², LSF, luminaire lead, white plug, black/blue coding
BVITM6L305100W	6 pole, 3 core, 5m, 1mm², LSF, luminaire lead, white plug, black/blue coding
BVITM6L308100W	6 pole, 3 core, 8m, 1mm², LSF, luminaire lead, white plug, black/blue coding
BVITM6L403100R	6 pole, 4 core, 3m, 1mm², LSF, luminaire lead, red plug, black/blue coding
BVITM6L405100R	6 pole, 4 core, 5m, 1mm², LSF, luminaire lead, red plug, black/blue coding
BVITM6L408100R	6 pole, 4 core, 8m, 1mm², LSF, luminaire lead, red plug, black/blue coding
BVITM6L503100W	6 pole, 5 core, 3m, 1mm², LSF, luminaire lead, white plug, black/blue coding
BVITM6L505100W	6 pole, 5 core, 5m, 1mm², LSF, luminaire lead, white plug, black/blue coding
BVITM6L508100W	6 pole, 5 core, 8m, 1mm², LSF, luminaire lead, white plug, black/blue coding
BVITM6L603100R	6 pole, 6 core, 3m, 1mm², LSF, luminaire lead, red plug, black/blue coding
BVITM6L605100R	6 pole, 6 core, 5m, 1mm², LSF, luminaire lead, red plug, black/blue coding
BVITM6L608100R	6 pole, 6 core, 8m, 1mm², LSF, luminaire lead, red plug, black/blue coding
BVITM6-LPW	6 pole, male connector, white plug, black/blue coding
BVITM6-LPR	6 pole, male connector, red plug, black/blue coding
BVITM6-LPW-F	6 pole, female connector, white plug, black/blue coding
BVITM6-LPR-F	6 pole, female connector, red plug, black/blue coding

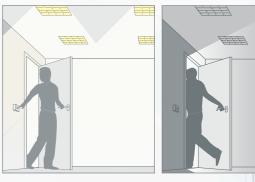
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Presence and absence detection explained

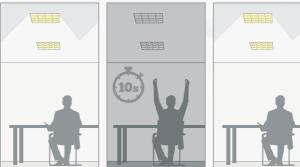
The choice between presence and absence detection for different spaces can make a big difference in user-friendliness and the amount of energy saved.



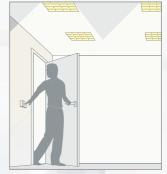
Presence Detection: Detectors will switch on lighting automatically when a person enters the room, and switches off lighting automatically when no movement is detected.



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.



Absence Recovery: After an occupancy time out period has elapsed in absence mode, the unit temporarily enters a presence mode for 10 seconds allowing the occupants movement to bring the lights back on.



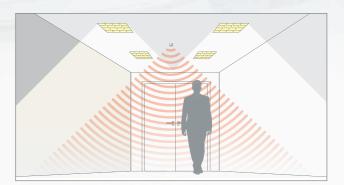
Switch Detection Time: This ensures that if a switch is activated and no movement is detected the lights will switch off after 10 seconds, minimising unnecessary lit space.

very: After an occupancy time out period absence mode, the unit temporarily enters Switch Detection Time: To activated and no movement activated activated and no movement activated and no movement activated and no movement activated activated and no movement activated activated

PIRs and microwave detectors compared



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.



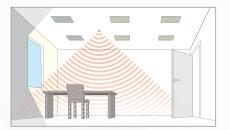
Microwave Detection: Microwave Detectors are sensitive to objects that move, with much greater coverage and sensitivity. They can detect through glass, therefore careful consideration on location is needed in certain applications.

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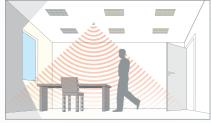
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Switching with lux level sensing

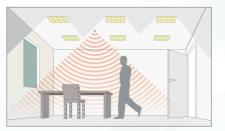
Vitesse Plus detectors have built-in adjustable lux sensors which will keep the lighting switched off if there is sufficient natural light.



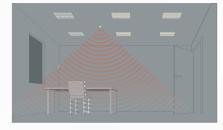
No presence detected, daylight, lights off.



Presence detected, sufficient daylight, lights off.



Presence detected, insufficient daylight, all lights on.



No presence detected, lights off.

Graduated dimming

for health and safety reasons.

The lighting within a space dims progressively from the source of natural illuminance in response to changes in natural light levels. This maximises the use of daylight within a space and minimises energy consumption and over lighting of the space.

Additional features and applications:

maintained illuminance in an office or area, allowing the user

to manually override the maintained level, by dimming up or

 After occupation and the time delay has ended, the dimming level can be programmed to dim for a time period before

instead stays at a low dimmed output during non-occupation. Very useful for warehousing with 24/7 operations, or corridors

switching off, or programmed to never switch off, but

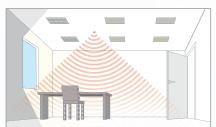
Provides either presence or absence detection with

down, or switching off and on via wall switch.

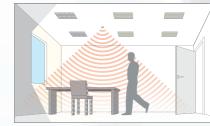
- Vitesse Plus detectors can also be programmed to switch on and off (at separate light levels) according to the local light level when the area is occupied, with or without a time delay (to avoid nuisance switching). This can be programmed as well as maintained illuminance on the same sensor.
- Many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

Maintained illuminance with absence or presence detection

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



No presence detected, daylight, lights off.

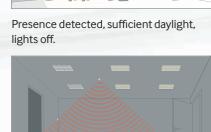




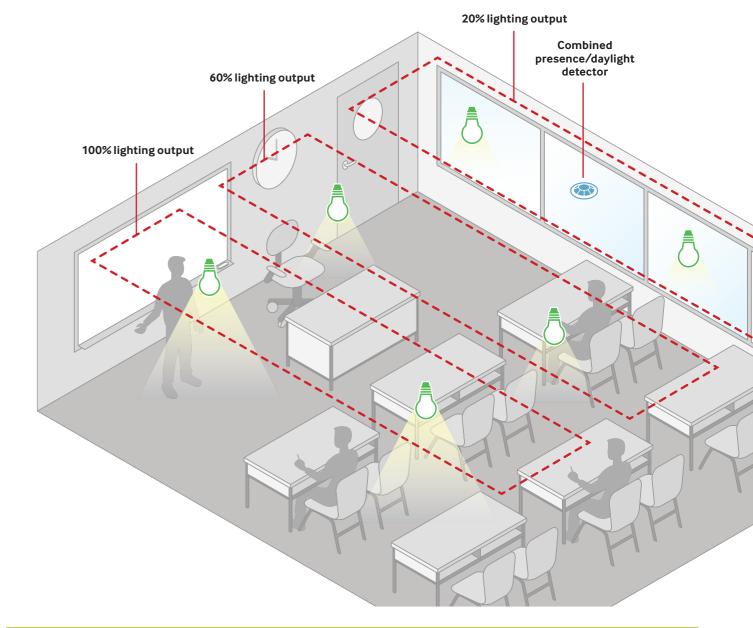
Presence detected, some daylight.
Lights on and dimmed to maintain lux level.



Presence detected, insufficient daylight. Detector measures and implements maintained illuminance.



No presence detected, lights off.



Visit www.cpelectronics.co.uk for further product information

Our Service Philosophy



Customer needs

With over 40 years of experience, CP Electronics recognise the individual needs of businesses; how energy control has to work within their overall objectives.

Develop solutions

Our product depth and quality enable us to develop solutions in commercial, public sector and domestic environments of all sizes.

 Our sales engineers are expert at working closely with you to achieve effective and efficient results.

Deliver solutions

Attention to detail and quality has made CP Electronics a name to trust.

 Exceptional reliability has enabled us to provide a 5 year warranty as standard, on all our products.

Implement & support solutions

CP Electronics offer an unrivalled level of technical support to our customers during specification, installation, commissioning and maintenance. You will benefit from:

- Experienced engineers with a broad knowledge of specifier, contractor and client requirements.
- Comprehensive advice that you can rely on with all aspects of lighting control design and installation.
- Telephone and on-site support as necessary.
- Downloadable product user guides from www.cpelectronics.co.uk.
- APPs free downloadable lighting specifications that are Part L building regulation and BREEAM compliant. For more information on CP APPs please see www.cpelectronics.co.uk/cp-apps.

Commissioning, maintenance and training

CP Electronics' Technical Services division delivers unrivalled levels of support to customers during specification, installation, commissioning and maintenance. This ensures the best use of lighting control for the end user.

Commissioning

Technical Services provides a comprehensive commissioning service which can include a period of on-site presence, a dedicated handover experience and a 5 year warranty on all CP Electronics' products.

Maintenance

Maintenance protects the customer's investment and gives peace of mind, and a scheme that fits their needs. If required, CP Electronics provides a tailor-made contract which offers further flexibility.

Training

CP Electronics' Technical Services shares structured information through training modules on all its technology by updating customers continuously on product development and legislation.

Delivering Projects Together







Newcastle Performing Arts College

Building:

State-of-the-art £5.5 million centre includes 250 seat theatre, 10 recording studios and 9 large dance studios.

Brief:

Deliver a lighting control solution that would surpass the needs of each individual space.

Solution:

Vitesse Plus was chosen as it offered many advantages for the end user, which included multi-channel switching, PIR and switch control, dimming options and, if required, daylight linking.

Fact:

The building is now rated BREEAM 'Excellent'.

Brighton and Hove Albion FC

Building:

Includes eleven full and half size pitches, accommodation, a gym and more.

Brief:

The client required a system that can be easily be incorporated into any building design and can be configured to control specific rooms, floors or entire multi floor building functions.

Solution:

Vitesse Plus and RAPID systems were installed throughout the distinctive Y shaped, training and teaching facility for Brighton and Hove Albion.

Fact:

The whole facility has been designed to meet the Premier League's Elite Player Performance Plan.

West Dorset District Council

Building:

Green modern offices.

Brie

To help the council immediately reduce its running costs and its impact on the environment through the installation of CP's energy saving products.

Solution:

Vitesse Plus offered West Dorset District Council a high level of lighting control without the need for a control network.

Fact:

The new building has immediately helped the council reduce its running costs and its impact on the environment.















+44 (0)333 900 0671 info@cpelectronics.co.uk www.cpelectronics.co.uk



