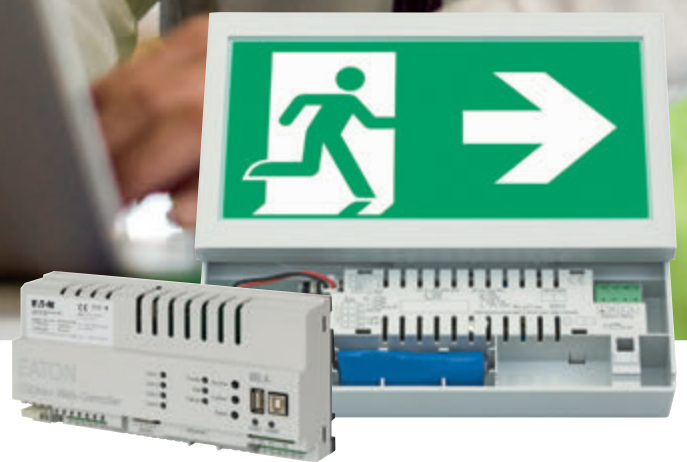


CGLine+

Self-contained luminaire monitoring system

Simply the most
flexible, reliable
monitoring for
peace of mind



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Energizing a world that demands more.

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As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

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Powering Business Worldwide



We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2014 sales of \$22.6 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.



Eaton's electrical business

Eaton is a global leader with expertise in:

- Power distribution and circuit protection
- Backup power protection
- Solutions for harsh and hazardous environments
- Lighting and security
- Structural solutions and wiring devices
- Control and automation
- Engineering services

Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges. With 100 years of electrical experience behind us, we're energized by the challenge of powering up a world that demands twice as much energy as today. We're anticipating needs, engineering products and creating solutions to energize our markets today and in the future.

We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

Eaton.com



Simply the most flexible,
reliable monitoring for
peace of mind

Introducing CGLine+

Bringing all the best features from existing systems, Eaton's portfolio of emergency lighting products has now been enhanced with the launch of its latest monitoring system.

Offering best in class functionality CGLine+ is the evolution of three existing EL monitoring systems combined into one. With a simple web based HMI, the system is capable of monitoring more than 25000 luminaires offering the scalability your project requires.

The system is customisable, allowing for building plans to be uploaded to enable the user to pinpoint exactly which unit needs attention. The Auto-ID function eliminates the manual addressing of the luminaires which reduces commissioning time.

Reliable, efficient monitoring

The automatic testing of each individual luminaire and real time issue alert function reduces maintenance cost, and as all tests are auto-populated into the failsafe digital log book, CGLine+ provides reliable efficient monitoring of your emergency evacuation lighting.

This easy to use, system supports a legal responsibility to ensure the safety of people in the building as well as giving you peace of mind by creating an environment that helps keep your business running safe and strong.



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All safety luminaires are important. They help protect the life and health of people.

Emergency lighting must be fully functional to provide protection in case of failure of the general lighting.

Even if a single safety luminaire or exit sign luminaire fails, depending on the particular local conditions, there is a significant risk of accidents, for example in a stairway. For this very reason legislation requires regular testing of the emergency lighting. The operation of the luminaires in battery mode, for example, (function test) must be verified at least once a month.

Self-contained luminaires without an automatic test function

In single self-contained luminaires by pressing a button on the luminaire, the function test is performed and the result must be recorded by hand in a log book. An additional test for the duration of the rated operating time must be performed once a year. This test checks whether there is still sufficient battery capacity available. All log book entries must be kept on file for 4 years. If there are a large number of luminaires, manual testing is an extremely laborious process and therefore involves significant costs.

Automatic testing simplifies the process

Eaton has implemented automatic test functions in all CGLine+ self-contained luminaires. A control module monitors and controls all functions of the luminaire automatically, including function and duration tests.

The test results are shown on site on the luminaire by a status indicator. Without a central monitoring device, the results must be recorded by hand in the log book and kept on file in paper form for at least 4 years.



Exit sign luminaires such as the Britesign 2 are available with CGLine+ functionality. This is achieved via an internal control module.

Central controller provides more safety

The new CGLine+ Web-Controller initiates the tests, displays the results centrally and stores them with ease in an electronic log book. The log book can be printed and displayed on demand. This assists the building operator in meeting the duty of documentation and maintaining the safety of the building occupants.

CGLine+ self-contained luminaire system

More luminaires. More convenience. More safety!

CGLine+: More luminaires. More convenience. More safety!

CG⁺
Line

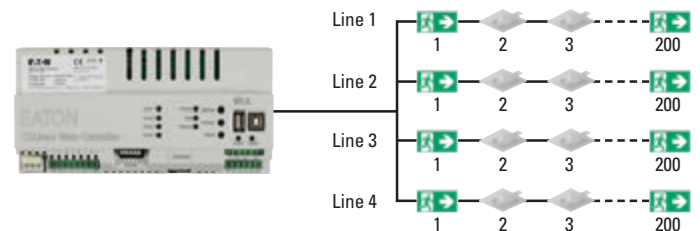


The new CGLine+ Web-Controller

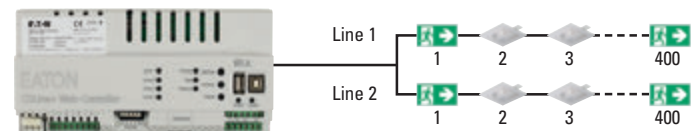
The tried and tested self-contained luminaire system CGLine 400 has been used since 2004 in Europe for the safe monitoring of self-contained luminaires. The new CGLine+ system is a more powerful system to make the operation of self-contained luminaire systems safer and even more convenient.

Now up to 800 luminaires monitored

The new CGLine+ Web-Controller can visualise a total of 800 CGLine+ luminaires (four lines of maximum 200 luminaires each or two lines of maximum 400 luminaires each). The number of luminaires is quadrupled as compared to the monitoring capacity of a controller of the Easichack 2 system. This lowers investment costs for larger-scale projects.



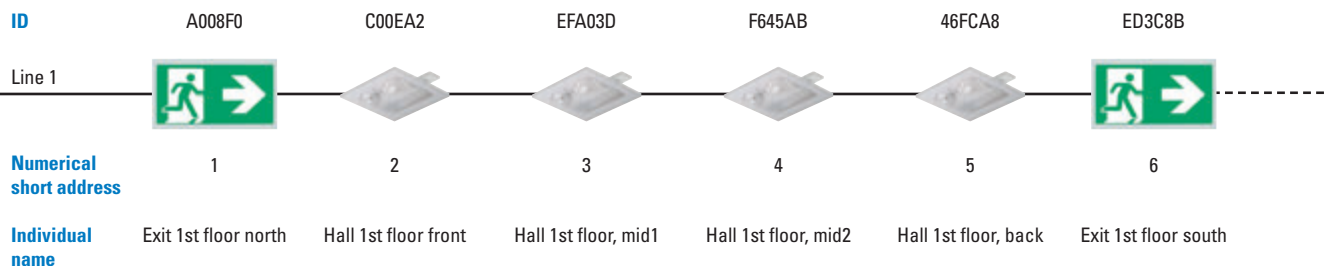
Typical installation with max. 4 lines of 200 luminaires each (above) or 2 lines of 400 luminaires each (below).



Addressing CGLine+ luminaires

Luminaires do not need to be manually addressed in the CGLine+ system. CGLine+ luminaires are fitted with a unique address by the manufacturer consisting of a six-digit ID number in hex code format. Using this address the Web-Controller identifies the luminaires automatically when the system is launched.

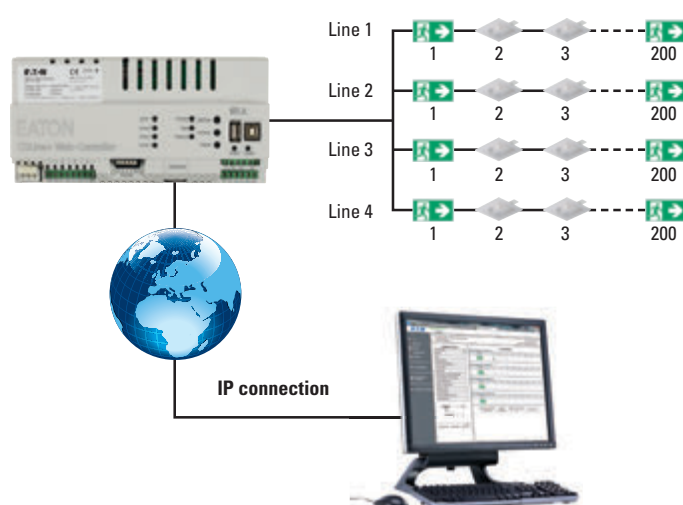
In addition, each luminaire can be configured to receive a short digital address and an individual name with a maximum of 20 characters. Hence it is possible to use a name which corresponds to the location according to the planning documents. This assists in locating luminaires in the building and additional repair procedures can even be remotely planned in case of failure.





Safety under control worldwide

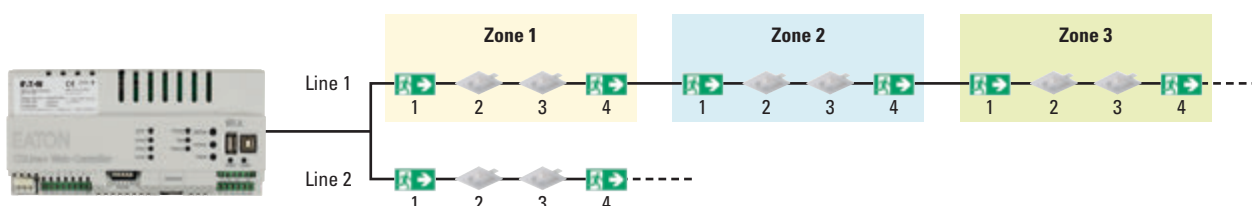
An integrated web server is available for convenient visualisation, control and monitoring of all connected CGLine+ luminaires. The controller can be accessed from any PC with an IP connection and a regular web browser without requiring any special software. The controller provides an overview of faulty luminaires, regardless of where the maintenance personnel are located. Safety issues caused by failed luminaires can be evaluated and the relevant corrective measures can be implemented. Regardless of location, completed maintenance works can then be conveniently checked. This means greater efficiency for the building operator, making it simpler to meet his obligations to eliminate any safety hazards as quickly as possible.



Presentation of zones on the first page in a browser view

Maintain an overview: Allocate the luminaires to zones

Maintaining an overview is important if there are a large number of luminaires. Luminaires of each line can be allocated to up to 8 zones (up to 16 zones in case of installing only two lines). The zones can be areas where the luminaires need be brought together, for example on a floor, in an area or in a room. LED exit sign luminaires can be switched from maintained to non-maintained, placed in rest mode in different parts of a building* which are not being used at certain times. By doing this, energy costs are reduced.



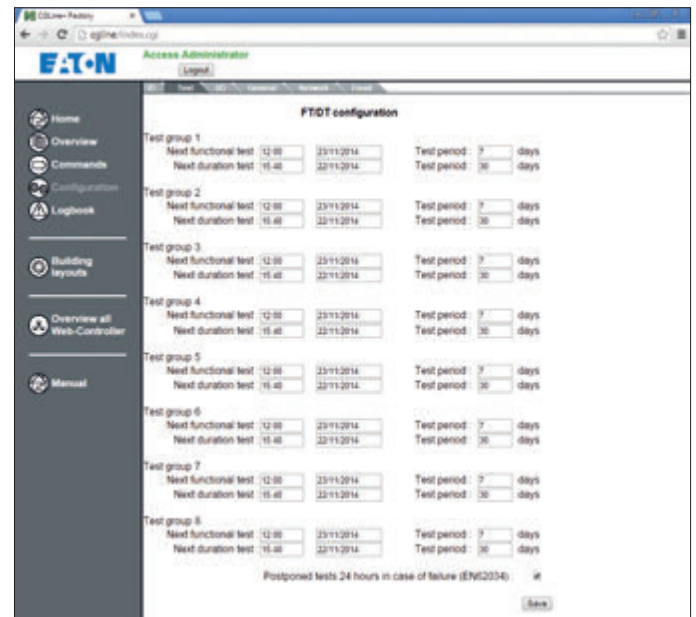
* Fluorescent luminaires do not have this functionality.

CGLine+ self-contained luminaire system

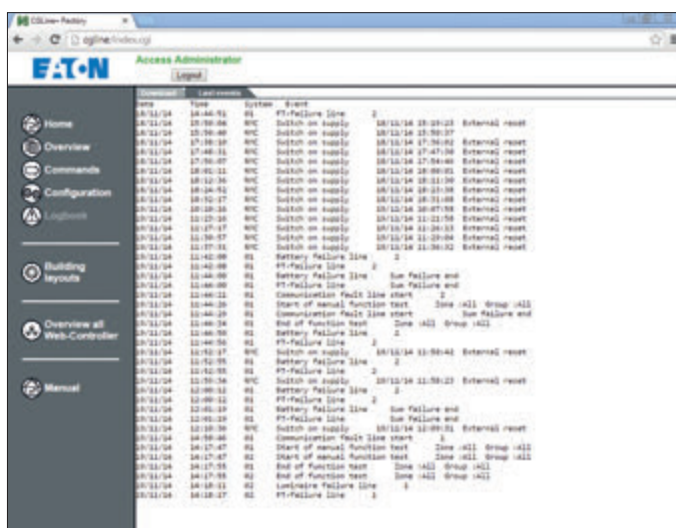
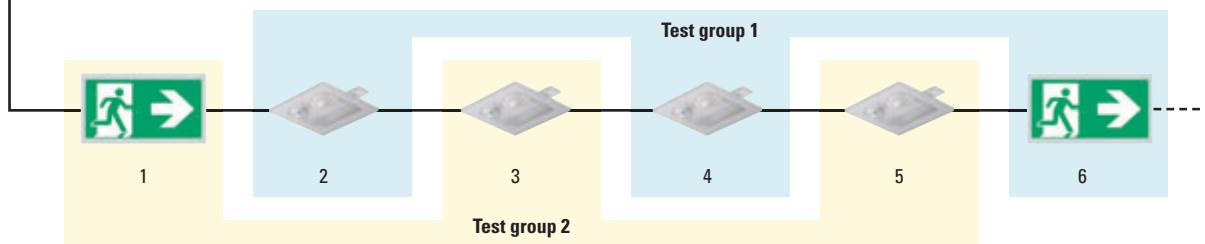
More luminaires. More convenience. More safety!

Tests are not forgotten, and are carried out at the right intervals for maximum safety

The timing and the intervals of regular function and duration tests can be conveniently and precisely set down to the minute, ensuring that the equipment is ready for operation at any time during the operating hours of the building. This allows luminaires to be organised into up to eight test groups for this purpose, for example to ensure that duration testing of luminaires installed next to each other is not started at the same time. The image below shows the luminaires of a floor allocated into two test groups. The period between tests is completely adjustable.



The advantages of test groups: Up to eight test groups can be created for testing in order to guarantee the operational readiness of the entire system.



The log book is available at any time using a web browser. Data is stored for at least four years in compliance with standards.

The electronic log book saves the need for manual logging

All test results are stored in the electronic log book for at least four years, in compliance with standards. The data is available directly using a web browser. The log book can be downloaded directly from the controller through a web server for further analysis of the log book in TXT or DAT file format. The DAT file can then be stored and transported using a regular USB memory stick. The CGLine+ PC software is used for reading the log book in DAT format, providing efficient and convenient analysis of the test results.

The electronic log book simplifies the requirement for the building operator to provide documentation, and it removes the need for laborious, manual logging.

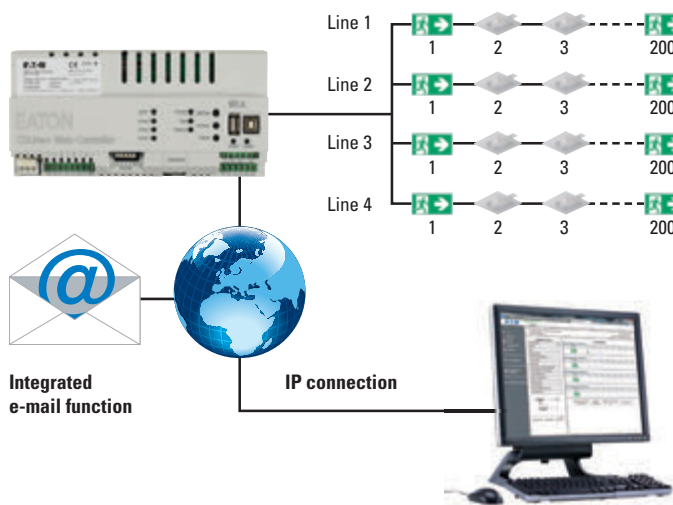
CGLine+ self-contained luminaire system

More luminaires. More convenience. More safety!

Automatic e-mail notification in case of faults

The integrated e-mail service automatically sends e-mails to up to ten recipients in case of allocatable events, for example in case of a luminaire failure being detected following an automatic function test. The aim of this function is to actively notify without delay those persons responsible for building safety about any faults, even if they have no direct connection with the controller at that point in time.

E-mail addresses can be divided into two groups to implement hierarchical escalation. This ensures that when a recipient in the first group is unexpectedly absent, other people are informed to ensure the safety of visitors to the building.



Selective assignment of commands

The web browser interface is useful for:

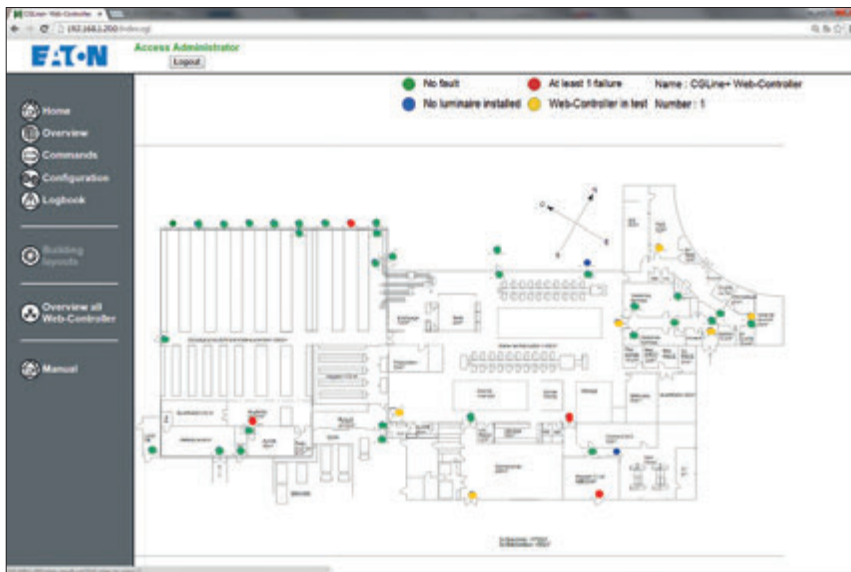
- Rest mode/re-light instructions
- Manual starting/stopping the function test and duration tests
- Switching on/off maintained light

This can be done in detail for all luminaires, for a line, for a zone and down to individual luminaires.

Furthermore this view offers a system status overview with the most important status messages and the operating condition of the input and output contacts.

CGLine+ self-contained luminaire system

More luminaires. More convenience. More safety!



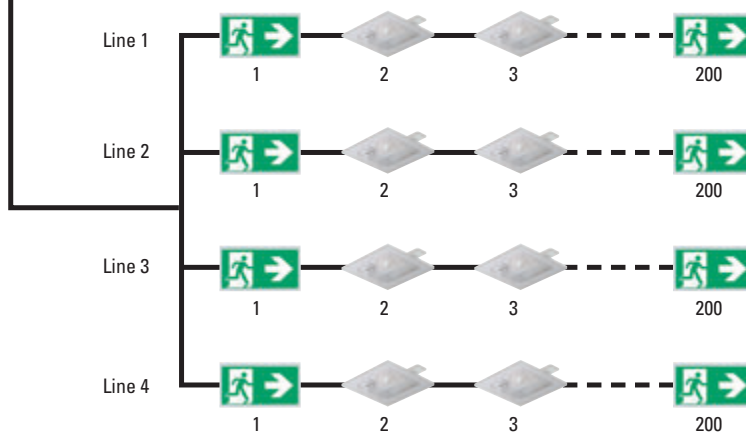
Keep your bearings in complex buildings

The programming of building layout function offers new opportunities. Building layouts can be loaded in the programme to display the status of luminaires at the installation location on the floor. Up to 30 different building layouts can be displayed for each controller. Luminaires are displayed with colour codes according to their current status. By touching a luminaire with the mouse pointer, a status window opens up with more information about the luminaire.

The overview helps provide better orientation in the building. The situation can be judged more effectively and repairs better prioritised.



USB connection



Configuration with PC software

Configuration is carried out using the CGLine+ PC software. Short addresses and unique names of luminaires can be assigned using this software; the time and interval of automatic tests are specified together with the zone assignment and the definition of test groups. As a result, the entire system can be configured in offline mode regardless of whether the IT network is available.

CGLine+ self-contained luminaire system

CGLine+ Web-Controller

CGLine+ bus

The communication of all data and commands takes place using the CGLine+ bus installed in a free topology using a two-wire unshielded cable. Should there be a possible break in the bus cable, the additional integrated test function of each CGLine+ luminaire ensures that the tests required are performed automatically, and this is displayed on site at the luminaire. The required cross-section of the bus cable depends on the length of the wire.

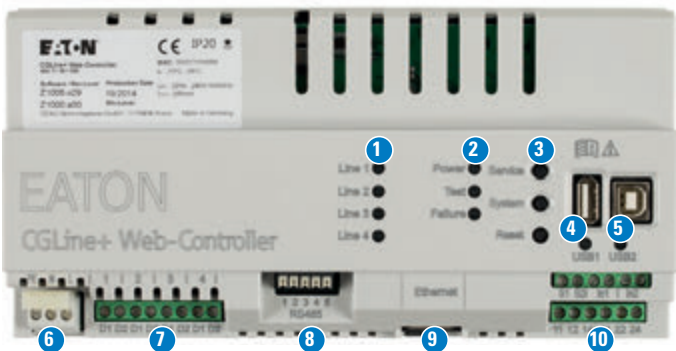
Cable length of a line

Cross-section	Length	For 4 lines in total
0.5 mm ²	330 m	1,320 m
1.0 mm ²	660 m	2,640 m
1.5 mm ²	1,000 m	4,000 m

Electrical data per line/bus

Supply voltage Bus	Max. allowable voltage drop	Bus current
25 V DC	14 V	400 mA

Set-up of the CGLine+ Web-Controller



- 1 LEDs for line 1 to line 4:**
It signals the sending or receiving of data between the CGLine+ Web-Controller and the CGLine+ self-contained luminaires.
- Green LED = Receiving of data by the Web-Controller

- Yellow blinking LED = Sending data to the luminaires
- 2 Power LED:**
The green light is lit as soon as the controller is connected to the 230V/AC supply voltage.

Test LED:

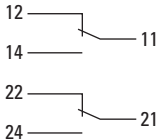
- Rapid green blinking if at least 1 luminaire is undergoing a function test
- Rapid green blinking if at least 1 luminaire is undergoing a duration test

LED failure:

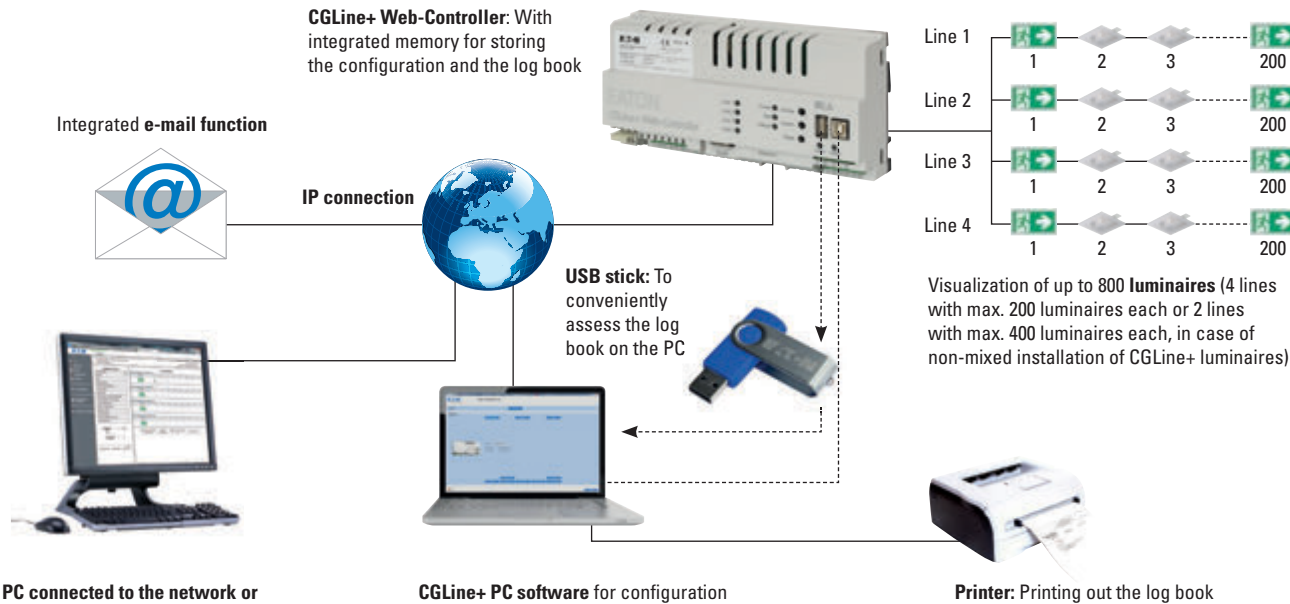
Showing a sum failure. Red LED light is lit if at least 1 luminaire is faulty, for example the battery has failed

- 3 Button:**
- Service = Starts a function test for example
 - System = Starts a USB connection using the USB2 port
 - Reset = Hardware reset of the device
- 4 USB1 port (Host)** for connecting a regular USB memory stick

- 5 USB2 port (Device),** for connecting to a PC
- 6 PE/N/L 230V 50/60Hz**
- 7 Connections for the CGLine+ bus,** line 1 to line 4
- 8 RS485**
- 9 LAN (RJ45)** with LED display
- yellow = connected (link)
 - green = data transfer (traffic)
- 10 Digital inputs and outputs:**
- S1/S2 = Blocking input
 - In1, In2 = 2 x digital inputs
 - 11, 12, 14 / 21, 22, 24 = 2 x relay outputs



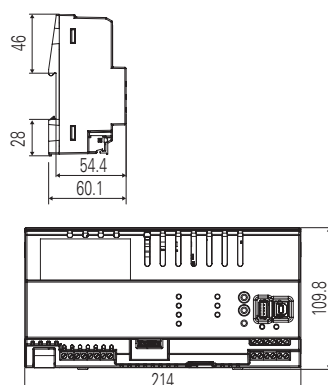
CGLine+ in operation



CGLine+ Web-Controller with integrated web server



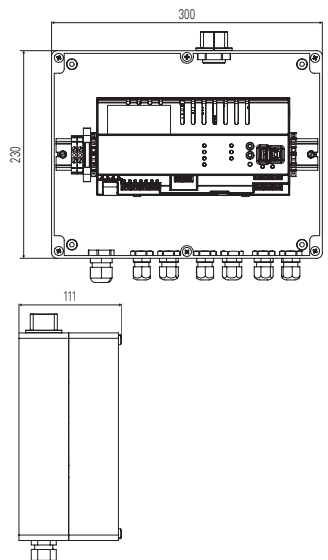
Dimensional drawings, data in mm



CGLine+ Web-Controller connection box



Dimensional drawings, data in mm



CGLine+ Web-Controller

- For connecting up to 800 luminaires in max. 4 lines
- The integrated web server enables there to be convenient visualisation, control and monitoring
- Unique ID per luminaires assigned by the manufacturer
- Automatic luminaire search function requiring no manual addressing
- Simple sorting using unrestricted short address assignment
- Unrestricted entry of target location names for the luminaires with up to 20 characters
- Clearly-shown allocation of luminaires to up to 8 zones per line
- Automatic function test and duration test
- Up to 8 test groups per luminaire can be defined for the function test (FT) and duration test (DT)
- Electronic log book storage for a period of minimum 4 years
- E-mail service for sending automatic e-mail in case of malfunctions to up to 10 e-mail addresses, assignable to 2 escalation groups
- Blocking the emergency lighting function during non-operational periods (all / per bus line/ per zone / per luminaire)
- Luminaires in maintained mode switchable (all / per bus line / per zone / per luminaire)
- Password protected access as an administrator or user
- Visualisation of luminaires in up to 30 different building layouts
- Efficient and convenient analysis of the log book using the CGLine+ PC software

Dimensions	214 x 109.8 x 60.1 mm
Housing type	For DIN rail 12 TE
Power supply	230V AC, 50/60 Hz
Power consumption	< 4W in standby, < 21W at full load
Connection terminals	max. 2.5 mm ²
Permissible ambient temperature	0 °C - 35 °C
Storage temperature	-20°C - 70°C
Degree of protection	IP20

Ordering details

Type	Scope of supply	Order No.
CGLine+ Web-Controller	Module in installation housing for DIN rails	40071361055

Accessories

Type	Scope of supply	Order No.
CGLine+ PC software	CD-ROM	40071361178
CGLine+ Web-Controller connection box	CGLine+ Web-Controller in wall-mounted housing	40071361184

CGLine+ Wireless Monitoring Set

The CGLine+ Wireless Monitoring Set enables wireless visualisation of CGLine+ Web-Controllers on a tablet via an integrated web browser. Access by other WiFi devices including notebooks and smartphones can be done with ease. This practical solution has the advantage of accessing the status and detailed information of every luminaire, easily and at any time using the CGLine+ Intranet, regardless of its installed location. This way, a wired network connection close to the luminaire is no longer required.

This clearly makes maintenance work easier. After repairing a luminaire, a function test for the relevant luminaire can be started on site to directly check that the luminaire is operative. Because the result is recorded directly in the electronic log book, paper-based protocols can be dropped.



Installation example



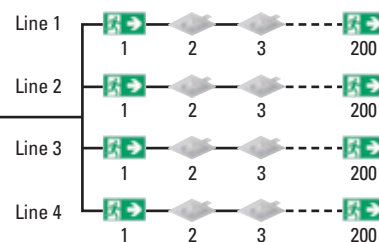
Current status indicator of all CGLine+ luminaires at all times in the web browser of a tablet or smartphone



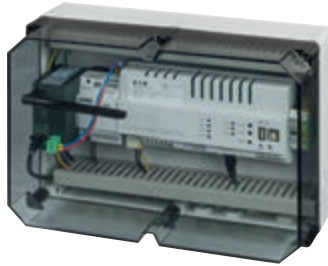
WiFi (wireless network connection)



CGLine+ web interface and preconfigured WiFi access point incl. 24V/DC mains adapter



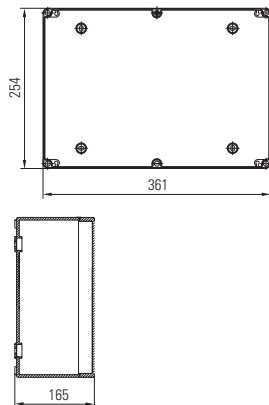
CGLine+ WiFi connection box + iPad* Air



+



Dimensional drawing connection box, data in mm



CGLine+ Wireless Monitoring Set

- Wireless visualisation of up to 800 CGLine+ self-contained luminaires – no wired network connection close to the luminaire required
- Accessing detailed information of every luminaire – regardless of its installed location
- Function test can be started on site to directly check that the luminaire is operative
- Location-independent access to the electronic workbook
- Integrated WiFi access point
- Convenient operation via a web browser and touchscreen
- Apple iPad Air, 32 GB, WiFi, grey included in the monitoring set

CGLine+ WiFi connection box

Dimensions in mm (H x W x D)	360 x 255 x 165
Housing type	Plastic wall-mounted housing
Power supply	230 V AC, 50/60 Hz
Power consumption	< 8.5 Watts standby < 25.5 Watts full load
Connection terminals	max. 2.5 mm ²
Permissible Ambient temperature	0 °C - 35 °C
Storage temperature	-20 °C - 70 °C
Degree of protection	IP54

Ordering details

Type	Scope of supply	Order No.
CGLine+ WiFi connection box	CGLine+ Web-Controller + WiFi access point in a wall-mounted housing	40071361275
CGLine+ Wireless Monitoring Set	CGLine+ WiFi connection box + iPad* Air, 32 GB, WiFi, grey	40071361274

* iPad is a registered trademark of Apple Inc., registered in the USA and other countries.

CGLine+ self-contained luminaire system

CGVision in the CGLine+ Web-Controller



CGVision in the CGLine+ Web-Controller

The Web-Controller can be connected to CGVision, the powerful visualization software, to create the largest configuration level of the CGLine+ system. In this set-up, up to 32 CGLine+ Web-Controllers can be visualised at once.

Using CGVision both CGLine+ luminaire systems and other emergency lighting systems (for example ZB-S, LP-STAR, AT-S+) can be monitored with a single software. There is no difficulty in extending an existing system.

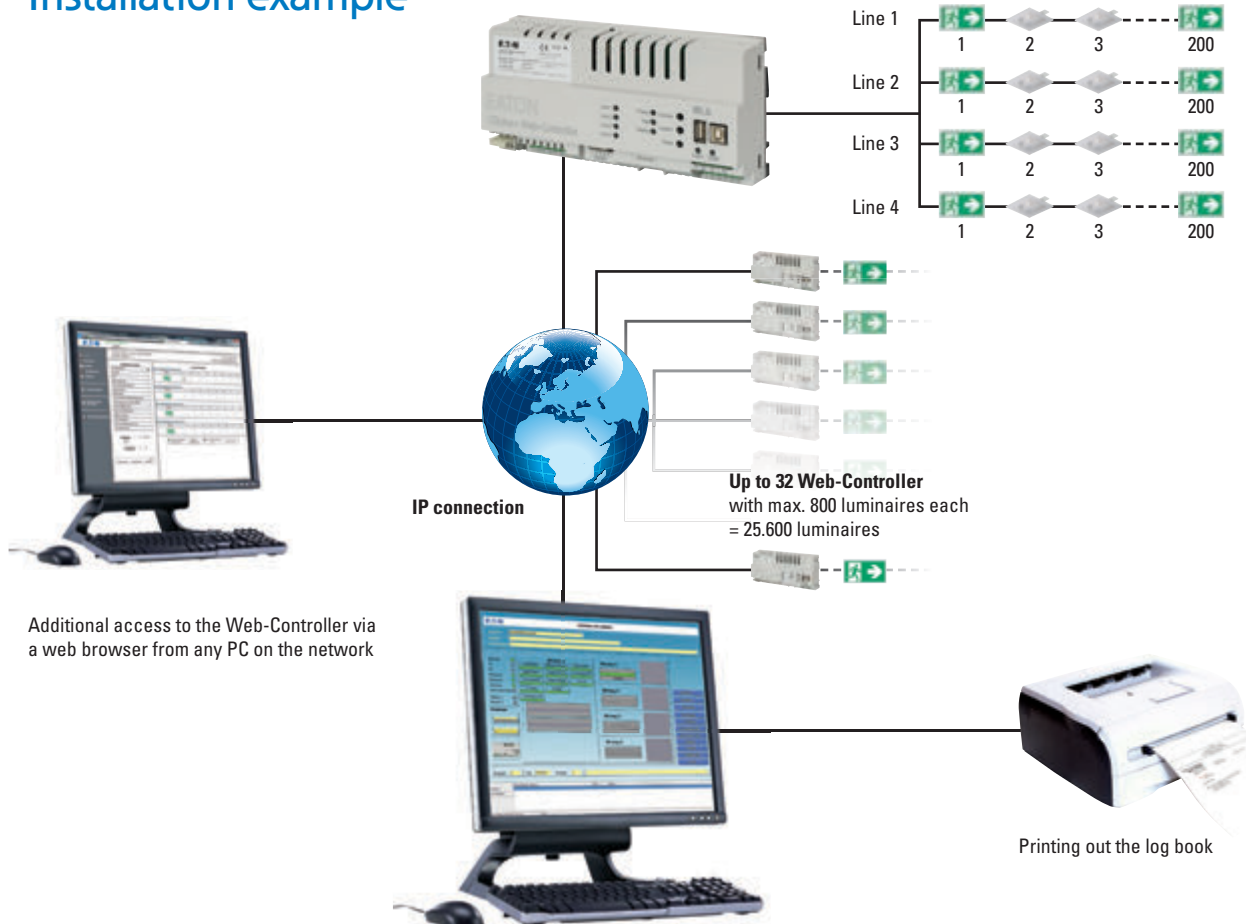
CGVision takes over all the control and test functions, and it generates a comprehensive electronic log book for all connected systems - and does so completely automatically.

In order to keep an eye on a large amount of equipment, for example at a large plant or an airport, the state of the individual emergency lighting systems can be presented on an aerial photo or a site plan. The building layout helps visualise individual luminaires.

Access of any PC via the web server of the CGLine+ Web-Controller can also be carried out if it is connected to CGVision. Thus for example, large, multi-building facilities can be configured and monitored centrally using CGVision. Additionally service technicians can have an overview of areas of interest to them using the Web-Controller.

Installation example

CGLine+ Web-Controller with integrated memory for storing the configuration and the log book



Additional access to the Web-Controller via a web browser from any PC on the network

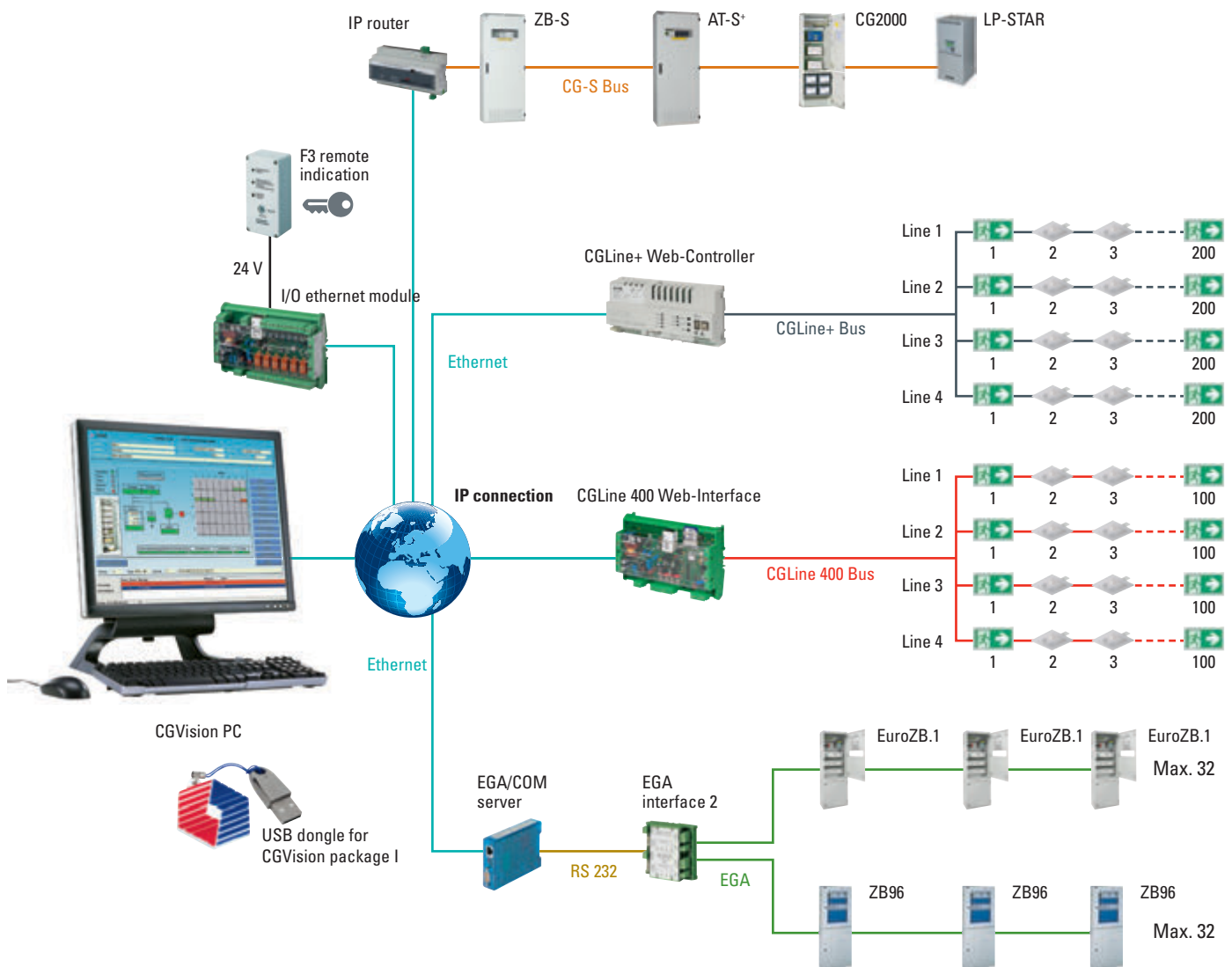
Printing out the log book

CGVision: Configuration and complete visualization of all luminaires

CGLine+ self-contained luminaire system

CGVision in the CGLine+ Web-Controller

Example for use of CGVision Package I



CGVision ordering details

Scope of supply	Order No.
CGVision Basic Package I (with CG-S/IP interface)	40071361020
CGVision Basic Package II (EGA components to be ordered separately)	40071361022
CGVision Basic Package III (with CG-S/USB interface, EGA components to be ordered separately)	40071361024
CGVision Pro Package I (including CG-S/IP interface and visualization in a building layout)	40071361021
CGVision Pro Package II (including visualization in a building layout, EGA components to be ordered separately)	40071361023
CGVision Pro Package III (including CG-S/IP-Interface and visualization in a building layout, EGA components to be ordered separately)	40071361025
PC-Anywhere remote maintenance software, 2nd licence 1 x host, 1 x remote	40071347151

For a detailed description and ordering information, see section CGVision in the emergency lighting main catalogue.

CGLine+ self-contained luminaires


Atlantic Plus



Weatherproof, stylish and robust, the Atlantic family is suitable for practically any application and location. The full range has excellent, high performance spacing characteristics, with a choice in self-contained for the standard light output Atlantic, or high output 3 cell Atlantic Plus, to maximise spacing and reduce the quantity of units required to achieve the latest European illumination requirements. All share the convenience of a first fix base, plug in geartray and self locking snap on vandal resistant lens which greatly speeds installation, saving time and cost. The robust, fully polycarbonate construction and IP65 rating affords enhanced protection for even the most vulnerable locations.

- BSI kitemarked for peace of mind
- ICEL registered with verified light performance
- Weatherproof IP65 and vandal resistant
- High performance, wide spacing distribution
- Choice of standard or high light output circuits
- Time saving first fix base and plug-in geartray
- Optional large format legend kit
- Self-contained, slave, self-test and addressable testing options
- Available in self-contained, AC/DC and AC mains slave versions

Lamp Options

- 8W T5 fluorescent, 3500°K - G5 cap 
- High intensity 3W white LED strip

Materials

- Base geartray and lens - polycarbonate
- Batteries (self-contained versions) - NiCd

Installation Notes

- Suitable for ceiling or wall mounting
- First fix base with heavy duty connector
- BESA entry on rear, conduit entries on ends and side
- Plug-in geartray
- Self-locking snap on lens. Requires tool for removal
- Supplied complete with 1 x 8W lamp

Options

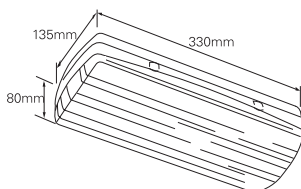
- Maintained and Non-maintained operation, 3 hour duration
- Atlantic has standard light output. Atlantic Plus has an additional battery cell for enhanced light output
- Central system slave versions
- CeaGuard testing versions

Specification









Self contained - To specify state: BSI Kitemarked and ICEL registered, IP65 vandal resistant, high performance, 2/3 cell self contained emergency luminaire, with plug-in geartray, self-locking snap on lens that requires tool for removal and standard/high light output circuit, as Atlantic/Atlantic Plus range, part no. _____

Self-test/Slave - To specify state: Intelligent 2/3 cell self-testing/Central system compatible slave, IP65 vandal resistant, high performance emergency luminaire, with plug-in geartray, self-locking snap on lens that requires tool for removal and standard/high light output circuit, as Atlantic Plus range, part no. _____

Dimensions



Photometric Data

Escape route 2m wide 1 lux min							Open (anti-panic) area 0.5 lux min			
Mode	Mounting height (m)	Lux level directly under								
Self-contained - Atlantic Plus										
NM	2.5	3.05	3.5	10.3	5.8	2.1	3.6	10.9	6.7	2.0
	4.0	1.19	1.6	8.8	5.6	1.1	3.0	13.4	7.7	1.9
	6.0	0.53	-	-	-	-	1.1	11.1	5.0	0.7
M	2.5	2.59	3.0	9.6	5.4	1.9	3.3	10.0	6.1	1.8
	4.0	1.01	0.8	7.2	5.0	0.3	2.5	12.8	7.2	1.7
	6.0	0.45	-	-	-	-	-	-	-	-
Self-contained - Atlantic										
NM	2.5	1.66	1.6	7.4	4.3	1.3	2.5	9.1	5.3	1.4
	4.0	0.65	-	-	-	-	0.7	9.6	5.8	0.4
	6.0	0.29	-	-	-	-	-	-	-	-
M	2.5	1.40	1.2	6.6	3.9	1.0	2.3	8.8	5.0	1.4
	4.0	0.55	-	-	-	-	0.9	8.0	5.0	0.6
	6.0	0.25	-	-	-	-	-	-	-	-
Slave										
AC/DC	2.5	3.05	3.5	10.4	5.9	2.0	3.6	10.7	6.7	2.0
	4.0	1.19	1.3	9.9	5.6	1.1	3.1	13.5	7.7	2.0
	6.0	0.53	-	-	-	-	1.1	12.0	7.9	0.7
AC/AC	2.5	4.40	4.3	11.4	6.6	2.4	4.0	10.6	7.0	1.7
	4.0	1.70	2.7	12.0	6.6	2.0	4.2	13.7	8.5	1.7
	6.0	0.80	0	6.2	5.4	-	2.2	15.3	9.5	1.4
LED	2.5	4.7	1.3	6.2	4.8	1.8	2.1	7.5	4.8	2.3
	2.8	3.7	1.4	6.4	4.8	1.9	2.2	7.7	4.9	2.4
	3	3.2	1.4	6.6	4.9	1.9	2.2	8	5	2.5
	3.5	2.4	1	3.7	4.9	2	2.3	4.8	4	2.6

Catalogue Numbers

System Mode	Cat No	Weight (kg)
Atlantic Plus - high light output		
Non Maintained 3Hr	ATPNCGL	1.4
Maintained 3Hr	ATPMCGL	1.6
LED		
LED Maintained 3Hr	ATLMCGL	1.4

CGLine+ self-contained luminaires

Briteblade



Briteblade is an unobtrusive recessed exit sign utilising a choice of traditional fluorescent light source or the latest LED technology. Installation is simple into either solid or suspended ceilings due to innovative rotating fixing arms that allow the fitting to pass easily into the mounting aperture on solid ceilings and a wishbone spring suspension system for ease of legend retention. A choice of white or silver trim finish makes Briteblade suitable for use in a wide range of applications.

- BSI kitemarked for peace of mind
- ICEL registered with verified light performance
- Fully meets EN 1838 for uniformity of legend appearance
- Metal body construction
- Long life 50,000 hour LED version
- Suitable for single or doubled-sided use
- Suitable for solid or suspended ceilings
- Self-contained, slave, and addressable testing options
- Available in self-contained, AC/DC and AC mains slave versions

Lamp Options

- 3W LED strip

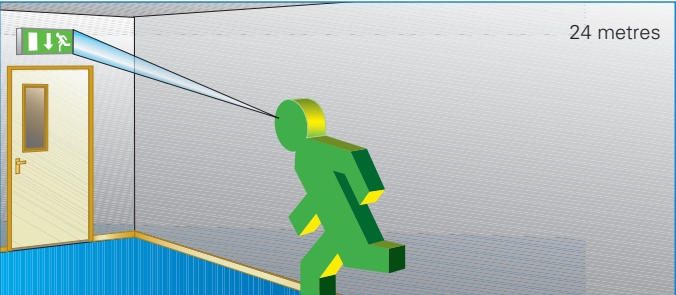
Materials

- Body - steel powder coated in RAL9016 finish
- Trim - steel powder coated in a choice of colours
- Legend panel - clear acrylic with pre-applied screen print legend
- Battery (self contained versions) - NiCd

Installation Notes

- Can be installed into solid or suspended ceilings
- Body is retained into ceiling by 4 suspension arms which are retracted into the luminaire body prior to installation but rotate outwards into position as the fixing screws are tightened
- Trim secured to body by concealed wishbone springs
- Supplied with lamp

Maximum Viewing Distance



Options

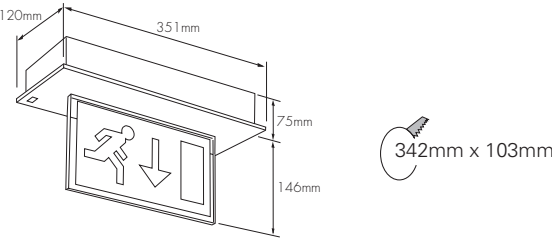
- Choice of trim plate colour
- Choice of fluorescent or LED light source
- Central system slave (AC/DC or static inverter)
- CeaGuard testing versions

Specification

Self-contained - To specify state: Recessed edgelit exit sign utilising Fluorescent/LED light source. Metal body suitable for use in solid or suspended ceiling types, luminaire retention to utilise retractable side arms. Legend illumination to be fully compliant with requirements of EN 1838 and product to be fully compliant with EN 60598-2-22 as Briteblade range part no. _____

Self-Test/Slave - To specify state: Intelligent self testing/Static inverter compatible slave recessed edgelit exit sign utilising fluorescent/LED light source. Metal body suitable for use in solid or suspended ceiling types, luminaire retention to utilise retractable side arms. Legend illumination to be fully compliant with requirements of EN 1838 and product to be fully compliant with EN 60598-2-22 as Briteblade range part no. _____

Dimensions



Catalogue Numbers

System Mode (LED)	White Trim Plate	Silver Trim Plate	Weight (kg)
Maintained/Non-maintained	BBLMCGL	BBLMSCGL	1.9

CGLine+ self-contained luminaires

Beam-lite



Beam-lite can be used for a wide variety of interior emergency lighting applications, particularly for warehouses and high ceiling commercial areas. The high intensity light source provides efficient illumination of long, narrow escape routes, but can also provide general coverage of a specific area for such as critical task locations where higher illumination is required. Beam-lite has keyhole slot screw fixing holes and a hinged front access door providing ease of installation, whilst the standard twin LED indicator lamps give separate early warning of failure of each lamp, in addition to mains and charging status. For wet or dusty areas, an IP55 weatherproof version is available.

- BSI kitemarked for peace of mind
- High light output
- Robust construction with a long durable life
- Hinged front access door eases maintenance
- Multi-directional lamp heads for on site flexibility
- Weatherproof IP55 option

Lamp Options

- 12V, 21W tungsten - BA15d cap
- 12V, 55W tungsten halogen H3 - Pk22s cap

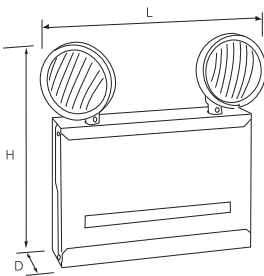
Materials

- Body IP20 - sheet steel, powder coated in white/black finish
- Body IP55 - sheet steel, powder coated in grey finish
- Lamp heads - BEN3 polycarbonate, finished black with clear front lens
- Lamp heads - BEN1H pressed steel, finished black, with clear polycarbonate lens
- Batteries - recombination lead acid, maintenance free, 5 year life

Installation Notes

- Suitable for wall mounting
- Cable entry on rear and top
- Direct screw fixed with keyhole slots
- Weatherproof version drilled on site for fixing and entry holes
- Lamp heads swivel and tilt, locked in position by screws
- Supplied complete with lamps

Dimensions



Options	L (mm)	W (mm)	D (mm)
Standard	325	370	82
Weatherproof	300	565	180

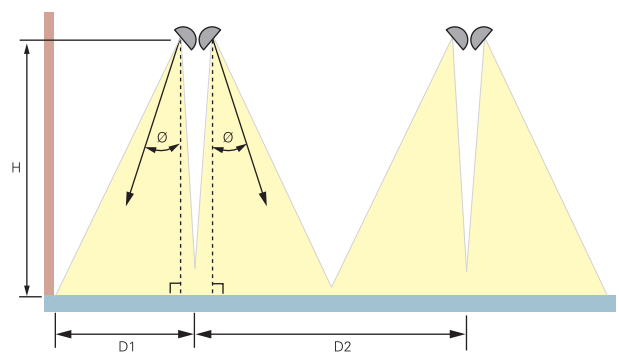
Options

- Non-maintained operation, 3 hour duration
- 2 x 55W, non-maintained operation, 1 hour duration version available

Specification

To specify state: Internal/Weatherproof beam projector, self contained emergency luminaire, with robust steel enclosure and front access door, multi-directional swivel and turn polycarbonate lamp heads, with 2 x 21/55W high intensity lamps and twin LED indicators, as Beamlite range, part no. _____

Photometric Data



Mounting Height - H(m)	Aiming Angle - Ø	Spacing Luminaire to Wall - D1(m)	Spacing between Luminaires - D2(m)
2 x 55W			
20	7°	4.8	10.2
25	6°	5.2	11.1
30	5°	5.4	11.7
35	5°	6.1	13
40	5°	6.7	14.3
45	4°	6.8	14.4
50	4°	7.1	15.2
2 x 21W			
4	35°	4.3	9.3
6	15°	3.1	8
8	12°	3.4	7.3
10	11°	3.7	8.1
15	8°	3.5	8.9

Notes:

1. Spacing achieves 1 lux min on centre line of escape route
2. Aiming angle at 4m height restricted by glare cut-off restriction
3. K factor of 0.55 and S factor of 0.8 have been applied
4. 2 x 55W spacing distances for mounting heights below 10m are same as for 2 x 21W unit

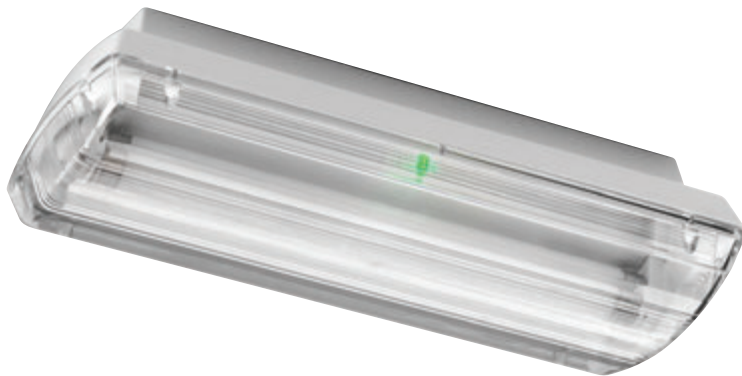
Catalogue Numbers

System Mode	Duration	Lamp Rating	Cat No	Weight (kg)
Standard IP20 housing				
Non-Maintained	3 Hour	2 x 21W	BEN3CGL	8.7
Non-Maintained	1 Hour	2 x 55W	BEN1HCGL	11.3
Weatherproof IP55 Housing				
Non-Maintained	3 Hour	2 x 21W	BEN3CGLW	14.4



CGLine+ self-contained luminaires

Britelite



For many years the Britelite has been associated with simple installation and class leading performance. The latest new generation Britelite builds on this reputation and offers even better performance, it also adds improved aesthetics along with a choice of surface or recessed installation. For a typical corridor application, requiring 1 Lux illumination and with a 2.8m mounting height, new generation Britelite can be spaced up to 11.6m apart, this is typically more than double the spacing of a low cost 8W bulkhead. For some applications, the speed and simplicity of a surface installation will be preferred, whereas for others, a recessed installation will be required to minimise the visual impact of the emergency lighting on the ceiling. To satisfy both these requirements, new Britelite is now available in either surface or recessed versions.

- BSI kitemarked for peace of mind
- ICEL registered with verified light performance
- Surface or recessed mounting where a minimal visual impact is required
- Class leading spacing performance up to 11.6m spacing
- Supplied disassembled for speedy installation
- Available in self contained, AC/DC and AC mains slave versions
- Self-contained, slave, self-test and addressable testing options
- Supplied with lamp

Lamp Options

- 8W T5 fluorescent 3500°K - G5 cap 

Materials

- Base and geartray - polycarbonate
- Diffuser - clear polycarbonate
- Batteries (self contained versions) - NiCd

Installation Notes

- Supplied disassembled ready for installation
- Surface version accepts both rear and surface entry cables
- To prevent unauthorised access, a tool is required to remove the diffuser after assembly
- After fixing the base and connecting the wiring, the combined gear tray and diffuser assembly is then clipped into place as a single item
- Recessed version has fixing clips that only require front access for installation
- Supplied with lamp

Options











- Surface and recessed versions available
- Maintained and Non-maintained operation, 3 hour duration
- CeaGuard testing versions

Specification

Self contained - To specify state: BSI Kitemarked and ICEL registered, high performance, extra wide spacing self contained emergency luminaire, with plug-in geartray, self-locking snap on lens that requires tool for removal and 3 cell high light output circuit, as Britelite range, part no. _____

Self-test/Slave - To specify state: Intelligent self-testing/Central system compatible slave, high performance, extra wide spacing emergency luminaire, with plug-in geartray, self-locking snap on lens that requires tool for removal and 3 cell high light output circuit, as Britelite range, part no. _____

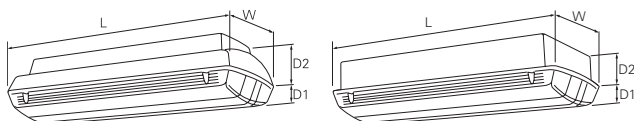
Photometric Data

Mode	Mounting height (m)	Lux level directly under	Escape route 2m wide 1 lux min						Open (anti-panic) area 0.5 lux min			
												
NM Self contained	2.8	3.0	3.9	11.6	5.7	1.9			3.8	11.1	6.4	1.9
	4.0	1.5	2.0	11.8	5.7	1.5			3.8	13.8	7.4	1.9
	6.0	0.65	-	-	-	-			1.7	16.4	8.0	1.4
Mtd Self contained	2.8	2.5	3.3	10.8	5.2	1.7			3.7	10.8	6.1	1.8
	4.0	1.1	1.5	9.8	5.0	1.1			3.3	13.3	6.8	1.6
	6.0	0.55	-	-	-	-			1.0	15.4	7.1	1.0
Slave luminaire	2.8	3.5	4.4	11.8	5.8	2.0			4.0	11.5	7.0	2.0
	4.0	1.7	2.1	12.7	6.0	1.8			4.4	13.8	7.5	1.9
	6.0	0.7	-	-	-	-			2.0	16.2	8.3	1.6

Catalogue Numbers

System Mode	Cat No	Weight (kg)
Surface Non Maintained 3Hr	BLSNCGL	1.4
Recessed Non Maintained 3Hr	BLRNCGL	1.5
Surface Maintained 3Hr	BLSMCGL	1.6

Dimensions



Options	L (mm)	W (mm)	D/D1 (mm)	D2 (mm)	Cut Out (mm)
Surface mounted	347	133	30	50	-
Semi-recessed	347	133	30	69	325 x 110



CGLine+ self-contained luminaires

Britesign 2



Using the latest in LED technology Britesign 2 has been remodelled to suit most prestigious installations and commercial interiors. It has an ultra low profile of 40mm and the stepped bezel creates an even slimmer appearance which makes this LED exit sign blend unobtrusively into almost any environment. The picture frame style die cast aluminium bezel is available in satin anodised finish as well as the ever popular white and houses a 33m viewing distance legend panel. The 50,000 hour long life LED source provides outstanding savings in lamp replacement and maintenance costs when compared to a traditional 8W lamp.

- ICEL registered with verified light performance
- Ultra low profile design
- 50,000 hour LED source for minimum maintenance
- EN1838 compliant legend panel
- Bezel colour options on request
- Self-contained, slave, self-test and addressable testing options
- Available in self-contained, AC/DC and AC mains slave versions

Lamp Options

- High intensity 3W white LED strip

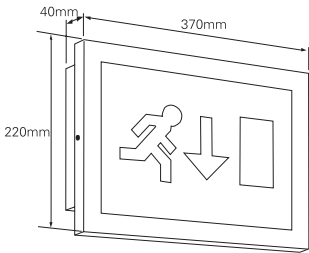
Materials

- Housing - steel, powder coated in RAL9016 finish
- Bezel - die cast aluminium, satin anodised or powder coated in RAL9016 finish
- Legend panel - clear acrylic with screen print legend
- Batteries - (self contained versions) - NiCd

Installation Notes

- Suitable for wall mounting
- First fix body with rear BESA entry and 20mm conduit entry on top face
- Direct fix via keyhole slots
- Bezel assembly screwed securely to base
- Supplied with LED strip

Dimensions



Options

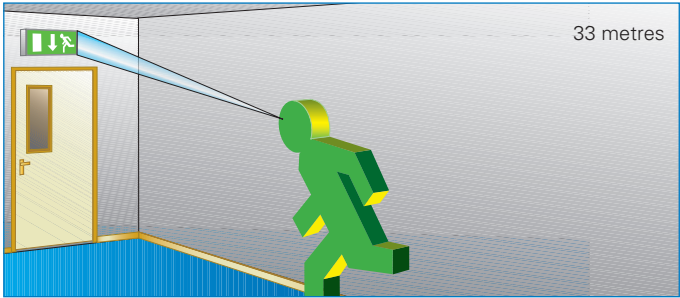
- Bezel choice of satin anodised aluminium and powder coat white finish
- Central system slave version
- CeaGuard testing version

Specification

Self-contained - To specify state: 40mm deep, ultra low profile exit sign utilising 50,000 hour LED light source. Legend illumination to be fully compliant with requirements of EN 1838 and retained by die cast aluminium bezel as Britesign 2 range part no. _____

Self-Test/Slave - To specify state: Intelligent self testing/Static inverter compatible slave 40mm deep, ultra low profile exit sign utilising 50,000 hour LED light source. Legend illumination to be fully compliant with requirements of EN 1838 and retained by die cast aluminium bezel as Britesign 2 range part no. _____

Maximum Viewing Distance



Catalogue Numbers

System Mode	White Finish	Aluminium Finish	Weight (kg)
Maintained 3Hr	BS2MCGL	BS2MACGL	1.45

CGLine+ self-contained luminaires

Alfalux High Bay LED



Designing emergency lighting for areas with high ceilings poses problems. Conventional bulkheads lack sufficient light output and often have inappropriate photometric distribution. Twin spot projectors are equally unlikely to provide the 0.5 Lux minimum coverage over the entire core area for open areas as required for compliance with standards. Alfalux high bay provides a compact, simple to install solution suitable for mounting heights up to 25m. The Alfalux LED range is split into two variants with a mid bay solution for low to medium height mounting and a High Bay solution up to 25m.

- 60,000 hour LED options
- Mid bay and high bay options for optimum luminaire efficiency reducing the number of fittings required
- Weatherproof IP65 ingress protection suitable for outdoor and wet environments
- Vandal resistant die-cast housing with polycarbonate lens
- Hinged gear tray for ease of installation
- Self-contained, slave, self-test and addressable testing options

Lamp Options

- 13W high power white LED

Materials

- Base - die-cast aluminium, finished in white powder coated paint
- Diffuser - clear polycarbonate
- Battery - NiCd (self-contained version)

Installation Notes

- Suitable for ceiling mounting
- Designed for mounting heights of 6 - 25m
- Twin BESA entry drill-outs on rear
- 20mm conduit entry on each end, with blanking plugs for ease of installation
- Direct screw fix option, with fixing holes outside IP65 area for improved ingress protection
- Geartray hinged, retained in closed position by single thumb screw
- Terminal block, accommodating push-in wiring (solid or stranded cables)
- Diffuser retained by allen key security screws

Options

- Self-contained - Can be operated in maintained or non-maintained mode
- Central battery slave versions
- CEAG slave versions

Specification

To specify state: Self-contained - High output high performance IP65 rated self-contained luminaire complete with NiCd battery, control gear and purpose designed optic/reflector suitable for mounting heights of up to 25 metres. Cast aluminium base and heavy duty clear diffuser as Alfalux High Bay LED part number _____

Slave - High output high performance IP65 rated slave luminaire complete with high output control gear and purpose designed optic/reflector suitable for mounting heights of up to 25 metres. Cast aluminium base and heavy duty clear diffuser as Alfalux High Bay LED part number _____

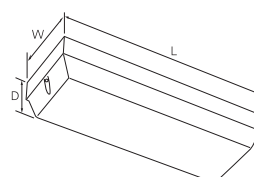
Photometric Data

Mode	Mounting height (m)	Lux level directly under	Escape route 2m wide 1 lux min				Open (anti-panic) area 0.5 lux min			
			Diagram 1	Diagram 2	Diagram 3	Diagram 4	Diagram 5	Diagram 6	Diagram 7	Diagram 8
Mtd/NMtd High Bay	6	-	3.5	8.2	12.2	5.8	3.7	7.3	11.6	6.1
	8	-	3.9	9.4	15.7	7	4.5	9.5	14.5	7.1
	10	-	4.1	10.5	18.3	7.5	5	11	17.3	7.9
	15	-	1.6	10.6	21.2	6.8	5.8	14.1	30	10
	20	-	-	-	-	-	3.2	14.6	30	10
230V Slave & CEAG High Bay	6	-	4.1	9.2	12.9	6.1	4.1	8.2	11.5	6.1
	10	-	5.2	12.3	19.7	8.8	5.6	12.3	17.8	8.6
	15	-	5.6	15	25.4	9.8	6.9	15.5	24	10.2
	20	-	3	15.1	27	7	6.5	15.7	30.3	11.7
	25	-	-	-	-	-	3.5	17	37.5	13.5
Mtd/NMtd Mid Bay	2.5	-	4.3	9.4	9.4	1.7	5.3	10.5	10.5	1.7
	2.8	-	3.3	9.3	9.3	1.4	5.7	11.5	11.5	1.4
	3.0	-	3.2	3.2	9.2	1.2	5.9	12.2	12.2	1.2
	4.0	-	-	-	-	-	4.9	12.5	12.5	0.67
	2.5	-	4.0	8.1	8.1	4.0	4.3	7.9	7.9	4.3
230V Slave & CEAG Mid Bay	2.8	-	4.4	9.0	9.0	4.4	4.7	8.6	8.6	4.7
	3.0	-	4.4	9.0	9.0	4.4	4.7	8.6	8.6	4.7
	4.0	-	5.9	12.4	12.4	5.9	6.1	11.6	11.6	6.1
	6.0	-	7.5	17.3	17.3	7.5	8.2	16.6	16.6	8.2
	4.0	-	3.4	9.4	8.0	2.8	2.8	6.3	9.2	2.6
Self Contained 8W T5 NMtd	6.0	-	3.2	9.8	8.0	2.8	2.6	11.9	10.6	2.1
	8.0	-	1.4	8.6	7.9	1.4	2.1	12.1	10.6	2.0
	10.0	-	-	-	-	-	2.0	12.9	10.6	1.6
	4.0	-	2.9	8.6	7.2	1.6	2.2	8.8	8.1	2.1
Self Contained 8W T5 Mtd	6.0	-	2.2	9.2	7.6	2.2	2.1	10.6	8.7	2.1
	8.0	-	1.0	7.7	7.6	1.0	1.9	11.2	9.3	1.8
	10.0	-	-	-	-	-	0.7	11.6	9.8	0.4

Catalogue Numbers

System Mode	Cat No	Weight (kg)
LED Maintained 3Hr (Hi Bay)	HLLEDH3HCGL	2.7
LED Maintained 3Hr (Mid Bay)	HLLEDL3HCGL	2.7

Dimensions



L (mm)	W (mm)	D (mm)
400	136	95

A photograph of a fire exit door set into a wall of light-colored stone tiles. The door has a dark grey frame and a glass panel. Above the door is a rectangular, illuminated light fixture. Two signs are mounted on the door: a green one with white text and a blue one with white text.

 **Fire exit**
Keep clear



Double sided exit sign



Single sided i-P65



Single sided i-P65 with legend

i-P65 is a high specification competitively priced emergency LED bulkhead utilising the latest LED and optic technology to provide an attractive, good quality, functional luminaire for indoor and outdoor use. Boasting numerous features and benefits, the i-P65 can be used to provide escape route lighting, single sided exit sign or optional double sided exit sign with a common look and feel where aesthetics are a primary concern.

The i-P65 has been designed for ease of installation, reduced power consumption, minimal maintenance, reducing the TCO (total cost of ownership) with a compact attractive appearance. The innovative optic design used in the i-P65, developed and produced by Eaton, efficiently utilises light from the LED source to provide uniform lighting distribution. For both escape route and open area anti-panic emergency lighting applications, performance is improved and electrical power consumption is reduced.

- Versatile multi-functional use (escape, open area and exit sign use)
- Low power consumption reducing cost of ownership
- Ease of installation, reducing installation time and cost
- Excellent spacing reducing the quantity of fittings required
- 60,000 hour life LED for reduced maintenance
- Self-contained, slave, self-test and addressable testing options

CGLine+ self-contained luminaires

i-P65

Lamp and Control Gear Options

- 2 x High power 1W white LED
- Consumption (Maintained) - 6.9VA/5W
- Consumption (Non-Maintained) - 3.6VA/2.5W

Materials

- Luminaire Body - polycarbonate
- Gear Tray - polycarbonate
- Battery - NiMh 4 cell (self contained version)

Installation Notes

- Suitable for ceiling or wall surface mount
- Outboard fixings for improved IP integrity
- First fix base with heavy duty connector capable of accepting 2 x 2.5mm² cables
- Touch safe components when gear tray removed
- BESA box entry on rear, 20mm conduit entry on ends and sides
- Plug in gear tray
- To prevent unauthorised access, a tool is required to remove diffuser and internal components

Options

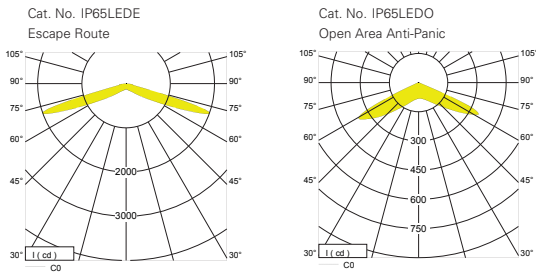
- Maintained luminaire can be operated in non-maintained mode
- Central Slave versions
- CEAG Slave versions
- Optional ISO7010 or Euro pictogram exit legends
- Temperature controlled battery heater kit for optimised performance in low ambient temperatures
- We offer a range of product support contracts to aid commissioning, reduce your maintenance costs, comply with legislative test requirements and increase the lifespan of your lighting equipment

Specification

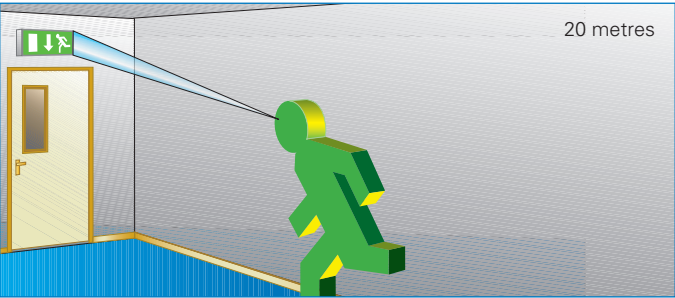
Self-contained - To specify: High performance LED self contained emergency luminaire with two 1W LED to give 20m escape route, with plug in gear tray and NiMh Battery, as i-P65 range, part no. _____

Self-test/Addressable test - To specify: High performance LED intelligent self testing/central system compatible slave emergency luminaire with two 1W LED to give 20m escape route, with plug in gear tray, as i-P65 range, part no. _____

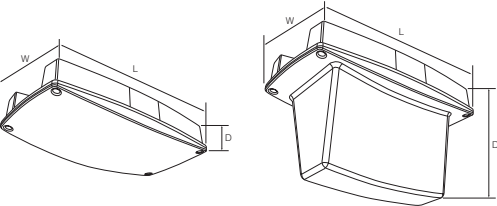
Photometric Data



Mode	Mounting height (m)	Lux level directly under	1	2	3	4
Escape optic (Asymmetric) Escape Route 2m wide 1 lux min						
Self contained	2.5	2.7	-	-	17.1	7.8
	2.8	2.2	-	-	18.6	8.4
	3.0	1.9	-	-	19.6	8.6
Open Area optic (Symmetric) Open (anti-panic) area 0.5 lux min						
Self contained	2.5	1.7	5.3	10.5	10.5	5.3
	2.8	1.4	5.7	11.5	11.5	5.7
	3.0	1.2	5.9	12.2	12.2	5.9
	4.0	0.67	4.9	12.5	12.5	4.9
Open Area optic (Symmetric) Open area 1.0 lux min						
Self contained	2.5	1.7	4.3	9.4	9.4	4.3
	2.8	1.4	3.3	9.3	9.3	3.3
	3.0	1.2	3.2	9.2	9.2	3.2

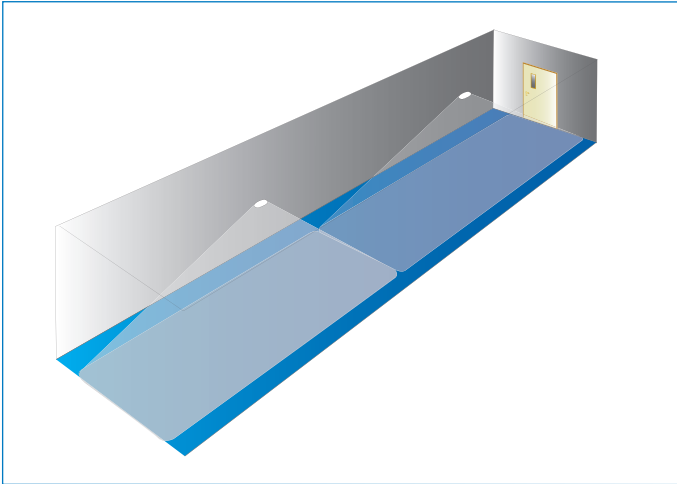


Dimensions

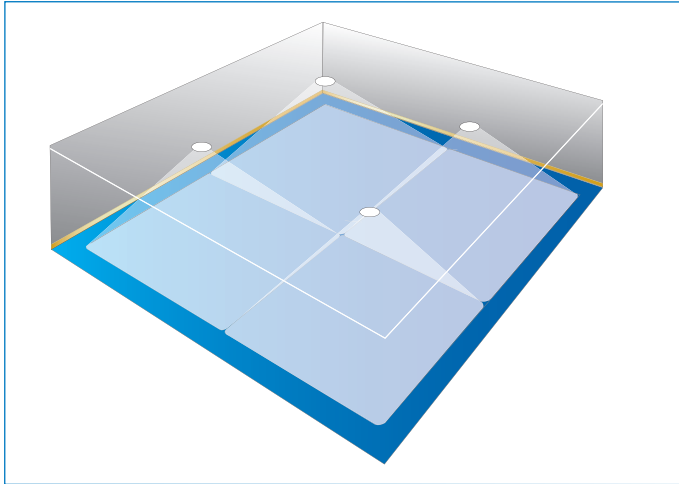


	L (mm)	W (mm)	D (mm)
Single Sided Exit Sign	263	142	55
Double Sided Exit Sign	263	142	165

Escape Route (Asymmetric - 1 Lux)



Open Area (Symmetric - 0.5 Lux)



Catalogue Numbers

System Mode	Cat No	Weight (kg)
Maintained 3hr open area *	IP65LEDO3HCGL	0.7
Maintained 3hr escape route *	IP65LEDE3HCGL	0.7
Double side exit sign		
Maintained 3hr *	IP65LEDEX3HCGL	0.8

* (not including pictogram)

† Allows luminaire to be used in low ambient temperatures





Micropoint 2 is a high specification competitively priced emergency LED luminaire. Micropoint 2 utilises the latest LED and optic technology to provide an unobtrusive, high quality, high performance luminaire for indoor use where aesthetics are of prime importance. Micropoint 2 has been designed for ease of installation, reduced power consumption and minimal maintenance, reducing the TCO (total cost of ownership) without compromising on aesthetics. The innovative optic design used in Micropoint 2 has been developed and produced by Eaton. It utilises light efficiently from the LED to provide a uniform distribution in either an escape route or for anti-panic emergency lighting in open areas. This improves the performance and reduces the electrical power consumption. Preset light levels can be adjusted in maintained mode to operate as a security light, adjustable using a touch sensitive button on the luminaire fascia.

- Versatile multi-functional use (escape and open area anti-panic)
- IP44 ingress protection (from below ceiling) ideal for bathrooms
- Low power consumption reducing cost of ownership
- Plug and socket supply for ease of installation and maintenance
- Excellent spacing reducing the quantity of fittings required
- 60,000 hour life LED for reduced maintenance
- Self-contained, slave, self-test and addressable testing options

CGLine+ self-contained luminaires

Micropoint 2 Recessed

Lamp and Control Gear Options

- 1 x High power 1W white LED
- Consumption (Maintained) - 6.9VA/5W
- Consumption (Non-Maintained) - 3.6VA/2.5W

Materials

- Luminaire Head - polycarbonate
- Remote Gear Pod - flame retardant ABS
- Battery - NiMh (self-contained version)

Installation Notes

- Flush mount
- Spring retaining clips for surface installation (install from below ceiling)
- Plug and play socket for mains supply
- Cut-out diameter 64mm
- No disassembly required during installation

Options

- Maintained luminaire can be operated in non-maintained mode
- Can be used as security light with 4 pre-set light levels
- Central slave versions
- CEAG slave versions

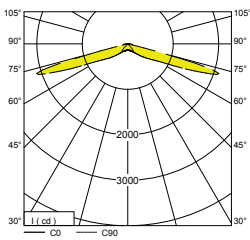
Specification

Self-contained - To specify: High performance LED self contained emergency luminaire with 1W LED to give 20m escape route, with remote gear pod capable of installation through luminaire ceiling cut-out, as per Micropoint range, part no. _____

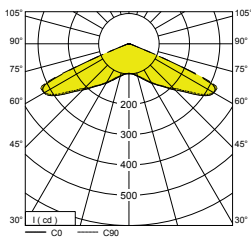
Self-test/Addressable test - To specify: High performance LED intelligent self testing/central system compatible slave emergency luminaire with 1W LED to give 20m escape route, with remote gear pod capable of installation through luminaire ceiling cut-out, as per Micropoint range, part no. _____

Photometric Data

Cat. No. MP2E3H
Escape Route

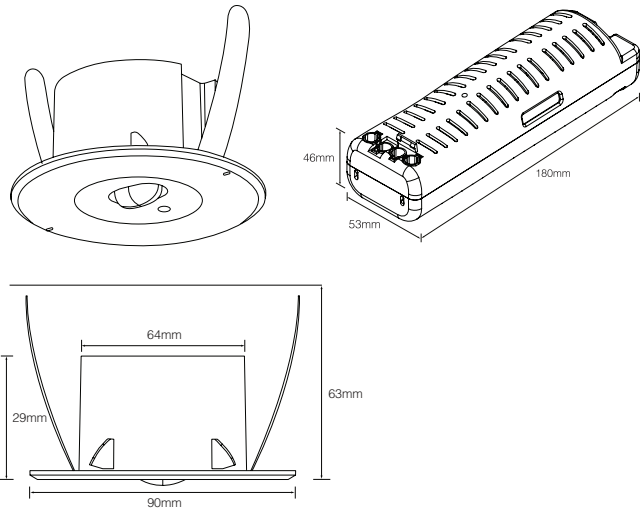


Cat. No. MP2O3H
Open Area Anti-Panic

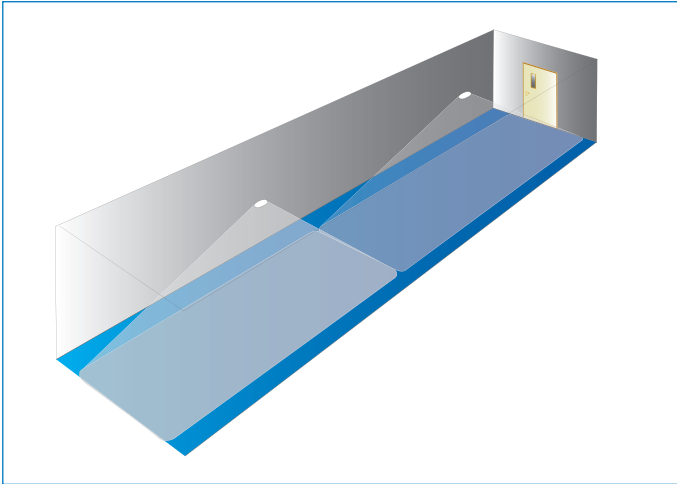


Mode	Mount height (m)	Lux level directly under	1	2	3	4
Escape optic (Asymmetric)						
Escape Route 2m wide 1 lux min						
Self contained	2.5	2.7	-	-	16.6	7.5
	2.8	2.2	-	-	18.1	8.1
	3.0	1.9	-	-	19.1	8.3
Open Area optic (Symmetric)						
Open (anti-panic) area 0.5 lux min						
Self contained	2.5	1.7	5.3	10.5	10.5	5.3
	2.8	1.4	5.7	11.5	11.5	5.7
	3.0	1.2	5.9	12.2	12.2	5.9
	4.0	0.67	4.9	12.5	12.5	4.9
Open Area optic (Symmetric)						
Open area 1.0 lux min						
Self contained	2.5	1.7	4.3	9.4	9.4	4.3
	2.8	1.4	3.3	9.3	9.3	3.3
	3.0	1.2	3.2	9.2	9.2	3.2

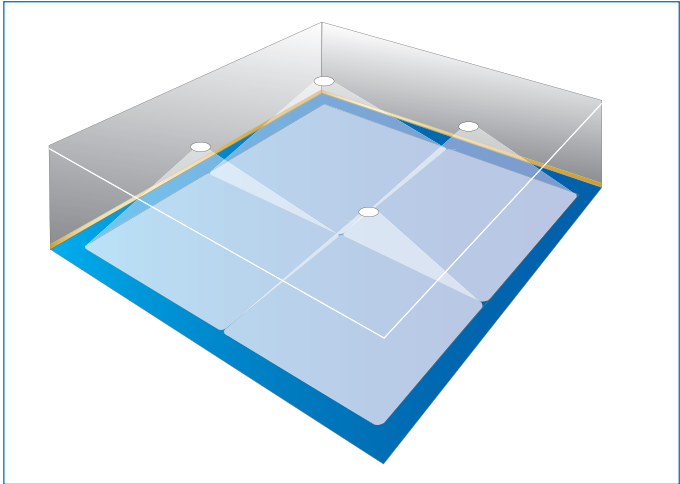
Dimensions



Escape Route (Asymmetric - 1 Lux)



Open Area (Symmetric - 0.5 Lux)



Catalogue Numbers

System Mode	Cat No	Weight (kg)
Maintained 3Hr Open Area	MP2O3HCGL	0.45
Maintained 3Hr Escape Route	MP2E3HCGL	0.45





Micropoint 2 is a high specification competitively priced surface mounted emergency LED luminaire utilising the latest LED and optic technology to provide an unobtrusive, high quality, high performance luminaire for indoor use where aesthetics are prime importance. The Micropoint 2 has been designed for ease of installation, reduced power consumption, minimal maintenance, reducing the TCO (total cost of ownership) without compromising aesthetics. The innovative optic design used in the Micropoint 2, developed and produced by Eaton utilises light efficiently from the LED to provide a uniform distribution in either an escape route or open area anti-panic emergency lighting, improving the performance and reducing the electrical power consumption. Micropoint 2 utilises a touch sensitive keypad to improve ingress protection against water and dust.

- Versatile multi-functional use (escape and open area anti-panic)
- IP44 ingress protection suitable for bathrooms and wet environment
- Low power consumption reducing cost of ownership
- First fix base for ease of installation
- Excellent spacing reducing the quantity of fittings required
- 60,000 hour life LED for reduced maintenance
- Self-contained, slave, self test and addressable testing options

CGLine+ self-contained luminaires

Micropoint 2 Surface

Lamp Options

- 1 x High power 1W white LED
- Consumption (Maintained) - 6.9VA/5W
- Consumption (Non-Maintained) - 3.6VA/2.5W

Materials

- Luminaire Enclosure - polycarbonate
- Battery - NiMh (self-contained version)

Installation Notes

- Surface mount
- First fix base with clip on fascia
- 20mm conduit entry on all four sides
- BESA box entry on base
- Supply connection accepts 2 x 2.5mm²

Options

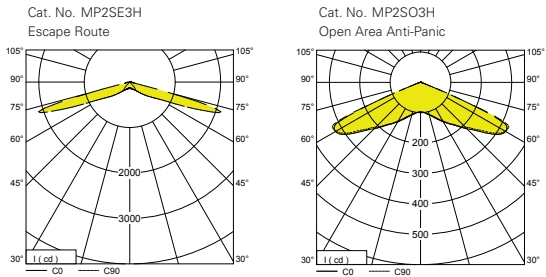
- Self-contained - Maintained luminaire can be operated in non-maintained mode
- Can be used as security light with 4 pre-set light levels
- Central battery slave versions
- CEAG Slave versions

Specification

Self-contained – To specify: Surface mount high performance LED, self-contained emergency luminaire with 1W LED to illuminate 20m escape route and NiMh Battery, as per Micropoint range, part no. _____

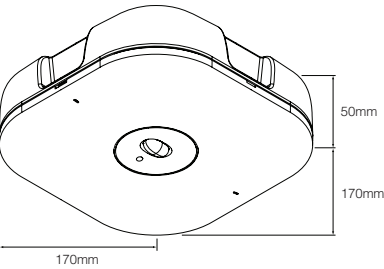
Self-test/Addressable test – To specify: Surface mount high performance LED intelligent self-testing/addressable testing compatible emergency luminaire with 1W LED to illuminate 20m escape route, as per Micropoint, part no. _____

Photometric Data

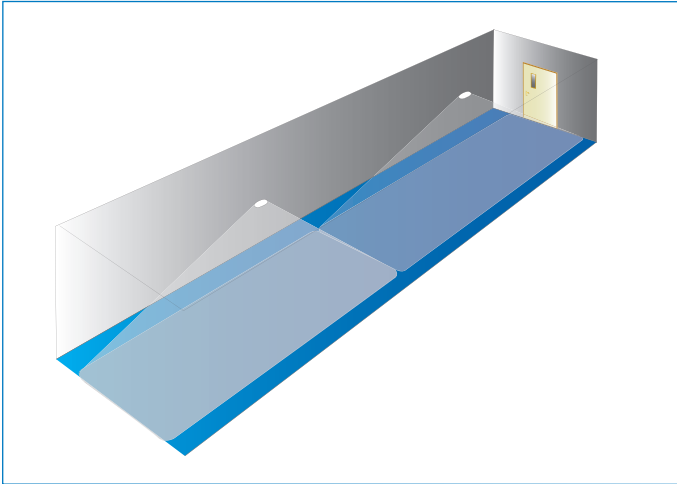


Mode	Mount height (m)	Lux level directly under	1	2	3	4
Escape optic (Asymmetric)		Escape Route 2m wide 1 lux min				
Self contained	2.5	2.7	-	-	16.6	7.5
	2.8	2.2	-	-	18.1	8.1
	3.0	1.9	-	-	19.1	8.3
Open Area optic (Symmetric)		Open (anti-panic) area 0.5 lux min				
Self contained	2.5	1.7	5.3	10.5	10.5	5.3
	2.8	1.4	5.7	11.5	11.5	5.7
	3.0	1.2	5.9	12.2	12.2	5.9
	4.0	0.67	4.9	12.5	12.5	4.9
Open Area optic (Symmetric)		Open area 1.0 lux min				
Self contained	2.5	1.7	4.3	9.4	9.4	4.3
	2.8	1.4	3.3	9.3	9.3	3.3
	3.0	1.2	3.2	9.2	9.2	3.2

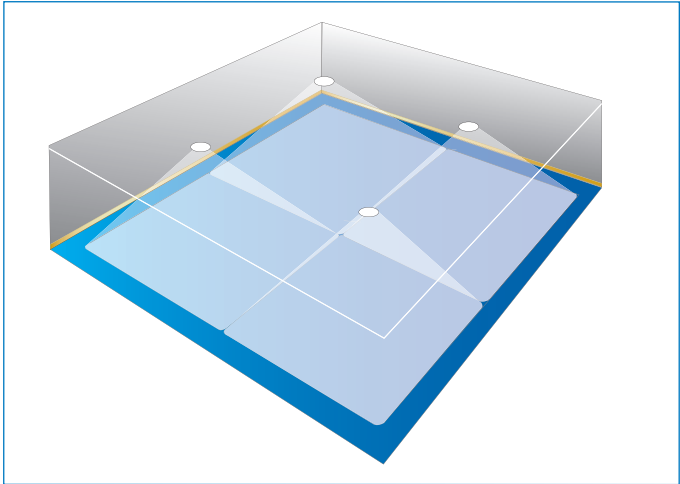
Dimensions



Escape Route (Asymmetric - 1 Lux)



Open Area (Symmetric - 0.5 Lux)

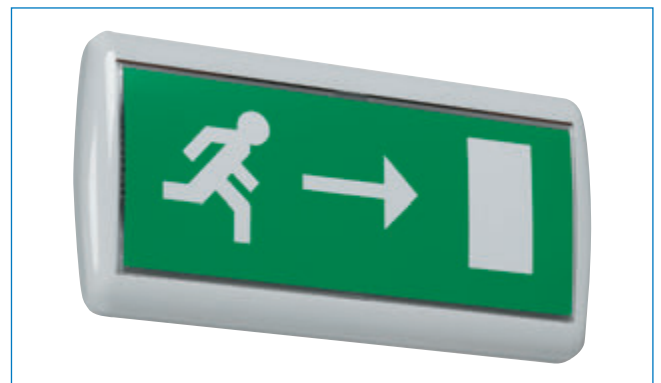


Catalogue Numbers

System Mode	Cat No	Weight (kg)
Maintained 3Hr Open Area	MP2SO3HCGL	0.45
Maintained 3Hr Escape Route	MP2SE3HCGL	0.45

CGLine+ self-contained luminaires


Vistral LED



Equally at home in prestigious installations and commercial interiors, Vistral is an ultra-low profile luminaire with a stylish design, allowing it to blend unobtrusively into any environment. The luminaire has a maximum depth of only 50mm and appears even slimmer thanks to an elegantly curved upper gallery, which also incorporates the efficient clear fresnel lens. The excellent flashing developed by this wide lens also permits Vistral to be deployed as an attractive exit sign, using the optional legend kit.

- BSI kitemarked for peace of mind
- ICEL registered with verified light performance
- Attractive, curved, low profile design suits most environments
- Stylish exit sign using legend kit, complies to EN 1838
- Self-contained, slave, self-test and addressable testing options
- Available in self-contained, AC/DC and AC mains slave versions

Lamp Options

- 8W T5 fluorescent, 3500°K - G5 cap 
- High intensity 3W white LED strip

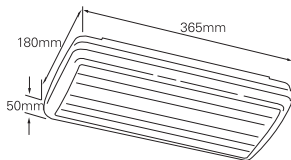
Materials

- Upper/lower gallery - polycarbonate and ABS
- Lens - clear polycarbonate
- Batteries (self-contained versions) - NiCd

Installation Notes

- Suitable for ceiling or wall mounting
- Lower gallery fixed direct, via keyhole slots
- BESA entry on rear. Cable entries on side and end
- Upper gallery and lens have snap fix retention
- Supplied complete with 1 x 8W lamp

Dimensions



Catalogue Numbers

System Mode	Cat No	Weight (kg)
LED		
LED Maintained 3Hr	VSLMCGL	1.4

Legend Kit	Cat No	Weight (kg)
European Format self-adhesive legend kit	LEXSAVS	0.05
ISO7010 Format self-adhesive legend kit	LEXSAVS-ISO	0.05

Options











- Maintained and Non-maintained operation, 3 hour duration
- Central system slave versions
- CeaGuard testing versions

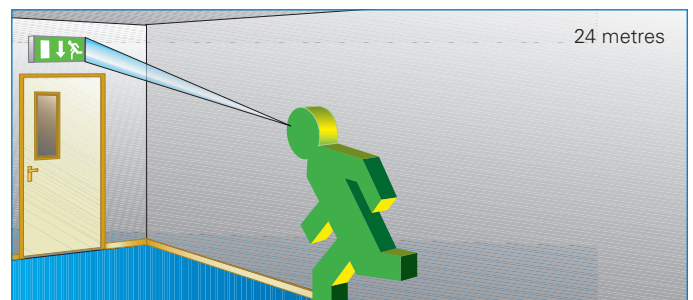
Specification

Self contained - To specify state: BSI Kitemarked and ICEL registered, 50mm deep ultra-low, curved profile decorative self contained emergency luminaire, with snap fix high quality fresnel lens and upper gallery, in white finish, as Vistral range, part no. _____

Self-test/Slave - To specify state: Intelligent self-testing/Central system slave compatible, 50mm deep ultra-low curved profile decorative emergency luminaire, with snap fix high quality fresnel lens and upper gallery, in white finish, as Vistral range, part no. _____

Photometric Data

Mode	Mounting height (m)	Lux level directly under	Escape route 2m wide 1 lux min						Open (anti-panic) area 0.5 lux min			
												
Self-contained NM	2.5	2.70	2.4	5.8	5.4	1.9			2.0	6.3	6.2	1.9
	4.0	1.06	1.6	7.2	5.1	0.6			2.5	7.4	7.0	1.7
	6.0	0.47	-	-	-	-			-	8.8	7.4	-
M	2.5	2.16	2.3	5.6	5.0	1.7			2.0	5.9	5.7	1.7
	4.0	0.90	-	6.8	4.4	-			2.3	7.0	6.7	1.5
	6.0	0.40	-	-	-	-			-	8.5	7.0	-
Slave AC/DC	2.5	4.89	2.9	6.8	6.8	2.6			2.3	7.5	7.2	2.3
	4.0	1.91	3.5	8.6	7.4	2.3			3.0	8.9	8.9	2.5
	6.0	0.85	-	-	-	-			3.5	10.0	9.8	2.1
AC/AC	2.5	6.7	3.1	7.8	7.8	3.0			2.7	8.4	7.7	2.0
	4.0	2.6	3.9	9.0	8.4	2.9			3.2	9.8	9.8	2.1
	6.0	1.1	3.1	11.2	7.6	1.4			3.9	11.2	11.2	1.9
LED	2.5	2.2	2.5	6.3	4.4	1.5			3.3	7.2	5.6	2.5
	2.8	1.8	2.6	6.6	4.5	1.5			3.4	7.5	6.0	2.7
	3	1.5	2.5	6.7	4.6	1.4			3.5	7.7	6.2	2.6
	3.5	1.1	1.8	7.1	4.5	0.8			3.6	8	6.5	2.7



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