

The performance you rely on



EATON

Powering Business Worldwide

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ELLISCO
Your Partner for Global Technology





Powering Business Worldwide

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Back up
power
protection



Control &
automation



Engineering
services



Power
distribution &
circuit protection

Lighting
& security



Solutions for
harsh & hazardous
environments



Structural
solutions &
wiring devices



Power
conditioning
& quality

BRAND
INCEPTION
DATES:



1833

1874

1893

1897

1899

1906

1908

1911

1914

1934

1961

1962

1963

1967

1977

1983

1984

1989



wright-line

POWERWARE

MEISSNER



CHI CONTROL



A long history of expertise in the life safety industry with a commitment to deliver market-leading solutions that protect people and property.

Heritage of innovation.

CEAG
Cooper
Menvier
JSB
Luminox



When it comes to protecting life and property, there's no room to compromise.

In a constantly changing world, owners and operators of commercial and industrial buildings must keep up-to-date with the changing nature of risk.

Safe evacuation is becoming more challenging due to a number of external influences.

What are the risks businesses face today?

The ongoing risk of fire

Over a third of businesses never resume operations after a major fire - losing orders, contracts, and key employees.

This results in lost jobs and services to the community.

Non-traditional threats

Power outages, terrorism and domestic extremism are a rising cause for evacuation. These risks demand a different approach when planning for safe evacuation. High-profile terrorist attacks can shape regulation.

Each emergency lighting system is important, it protects life and health.

- Escape route marking during regular power supply: Evacuation of a building due to an accident, a bomb threat etc.
- During blackout: Light supply
Showing the directions out of the building. Illumination of the escape route to guarantee a safe evacuation

Our products meet your challenges

Innovation, tests and compliance for more reliability

- We constantly innovate for contemporary design and technologies
- Customers light engineering requirements are fully tested at a lighting laboratory. We also expose newly developed products to extreme conditions and life cycle testing
- As a commitment to deliver high quality for all products and employees, Eaton's emergency lighting manufacturing facilities are certified ISO 9001
- Our products are AS2293 tested and certified

Different technologies to meet the requirements of your building and activity

- "Unmonitored" luminaires: only the battery charge circuit is tested, manual tests and inspection book management
- Addressable luminaires: luminaires monitored and automatic tests, central display of system status, automatic inspection book management with digital memory, web access and visualisation possible.
- Centrally powered systems: batteries are located centrally and all fittings are automatically monitored and tested providing the lowest maintenance costs of any system

Eco-friendly luminaires all along their life cycle

Our manufacturing plants are ISO14001 & ISO 9001 certified. We are committed to favour the choice of recycled materials and reduce weight and volume of products and packaging. Our LED luminaires are low consumption, and offer a life time of up to 60.000 hours.

A large portfolio for a wide range of applications

Exit sign, escape route, anti-panic luminaires

Indoor or with high degree of protection

Aesthetic solutions

High output luminaires and beam light projectors for large premises



Emergency lighting technologies

Eaton provides emergency lighting solutions across a range of technologies.

Self-contained

Utilising the latest in LED and lithium battery technologies, Eaton's award winning range of self-contained emergency lighting luminaires delivers the highest levels of efficiency and performance as demanded by the market.

Our comprehensive portfolio of AS2293 certified products, from high end architectural exit signs to rugged and weatherproof fittings for commercial and industrial applications, ensures that we can meet the requirements of your next project.

Automatic test and monitoring

Bring all of the best features from existing platforms, Eaton's portfolio of self-contained emergency lighting has now been enhanced with the launch of its latest emergency lighting monitoring system.

Offering best in class functionality, CGLine+ is the evolution of three existing systems combined into one. For smaller buildings a simple web based HMI is available and for larger sites Eaton's CGVision software provides a full visualisation solution. The system is capable of monitoring from 1 to over 25,000 luminaires offering the scalability your project requires.

Further information on Eaton's CGLine+ system and compatible luminaires can be found from page 8.

Centrally powered

Centrally powered systems ensure a safe and dependable energy supply in addition to monitoring the connected exit sign and escape luminaires. With a centralised location for the maintenance of system batteries and no need for additional data cable, centrally powered systems offer the lowest whole life cost of any emergency lighting solution.

Installed in some of the world's most iconic and demanding buildings, Eaton's centrally powered systems lead the market in terms of flexibility, functionality and whole life cost. The CG-Star technology provides the ability for different switch modes to be implemented in one and the same circuit with the switch mode of each individual luminaire being programmable at any time.

For further information on Eaton's centrally powered solutions and compatible range of luminaires please turn to page 42.

Look to the future, trust our past

The projects listed below are only a selection of the locations and applications where EATON emergency lighting solutions are installed.



Hospitality & leisure

- New Modern Art Museum, Italy
- Ritz-Carlton Hotel, Germany
- Marriot Opera Ambassador, France
- Ramada Resort Hotel, Hungary
- Atlantis the Palm Hotel, Dubai



Airports

- Frankfurt, Germany
- Schiphol, Netherlands
- Bangkok, Thailand
- Dubai, United Arab Emirates
- Christchurch, New Zealand



High-rise buildings

- Tower 115, Slovakia
- Capital Gate Tower, U.A.E.
- Burj Khalifa Tower, U.A.E.
- Burj Al Arab, U.A.E.
- Governor Maquarie Tower, Australia



Industry

- Microsoft, Italy
- EADS Airbus, Germany & France
- Bayer, Germany
- BP, Norway
- Dubai Cable Company, Abu Dhabi
- Eastern Creek Data Centre, Australia
- Diageo Distillery, Australia

Schools and Universities

- Technical University Berlin, Germany
- University Hamburg, Germany
- Normale University, Italy
- University Zurich, Switzerland
- University of Dubai, U.A.E.



Sport venues

- Emirates Stadium, UK
- Stadium Borussia-Park, Germany
- Stade des Lumières Lyon, France
- Karaiskakis Stadium, Greece
- National Aquatics Center, China



Commercial centres / retail

- CentrO, Germany
- Carrefour Supermakets, Belgium
- Arena Plaza Budapest, Hungary
- Montedoro Freetime, Italy
- Mazaya Centre, U.A.E.



Assembly halls / rooms

- German Bundestag, Germany
- National Theatre Budapest, Hungary
- National Library Leipzig, Germany
- Town Hall Sydney, Australia
- National Convention Center, Qatar
- Northern Queensland Cyclone Shelters, Australia





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AS2293 Certification

All emergency luminaires presented in this catalogue are tested to AS2293.3 and relevant EMC standards.

For further information, or to request documentation on any of our products, please contact us at safetyanz@eaton.com



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 continuous testing of the emergency lighting.

Self-contained luminaires without an automatic test function

An additional duration 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 microprocessor monitors and controls all functions of the luminaires automatically. The required duration tests, are performed automatically. 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.

Central controller provides more safety

The CGLine+ Web-Controller initiates the tests, displays the results centrally and stores them with ease in a paperless form in an electronic log book. The electronic log book can be printed off and shown on demand. This process ensures the safe operation of the building, and the building operator meets his duty of documentation.

Self-contained monitoring system

CGLine+



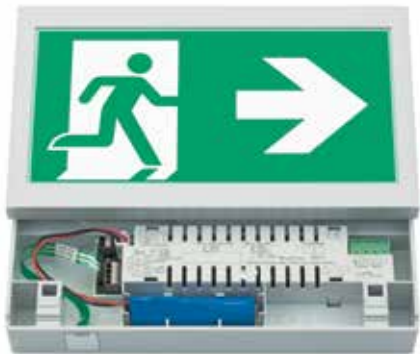
The CGLine+ Web-Controller

CGLine+:

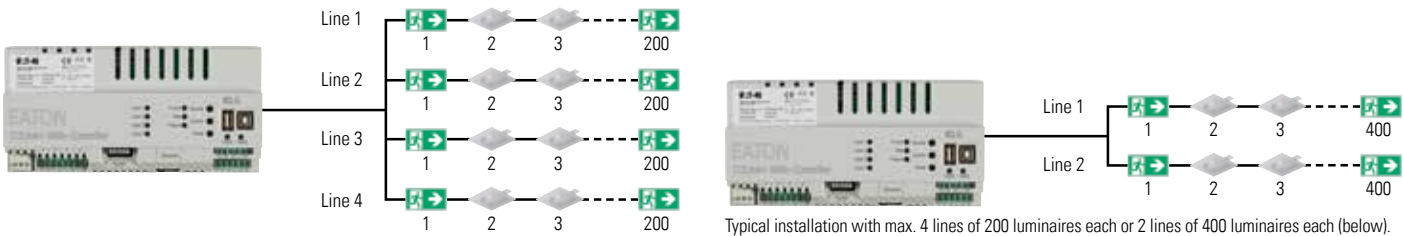
More luminaires. More convenience. More safety!

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). This lowers investment costs for larger-scale projects.



CGLine+ exit sign luminaires like the KLED or VELOS CGLine+ are fitted with a microprocessor controller, and perform all luminaire tests completely automatically.

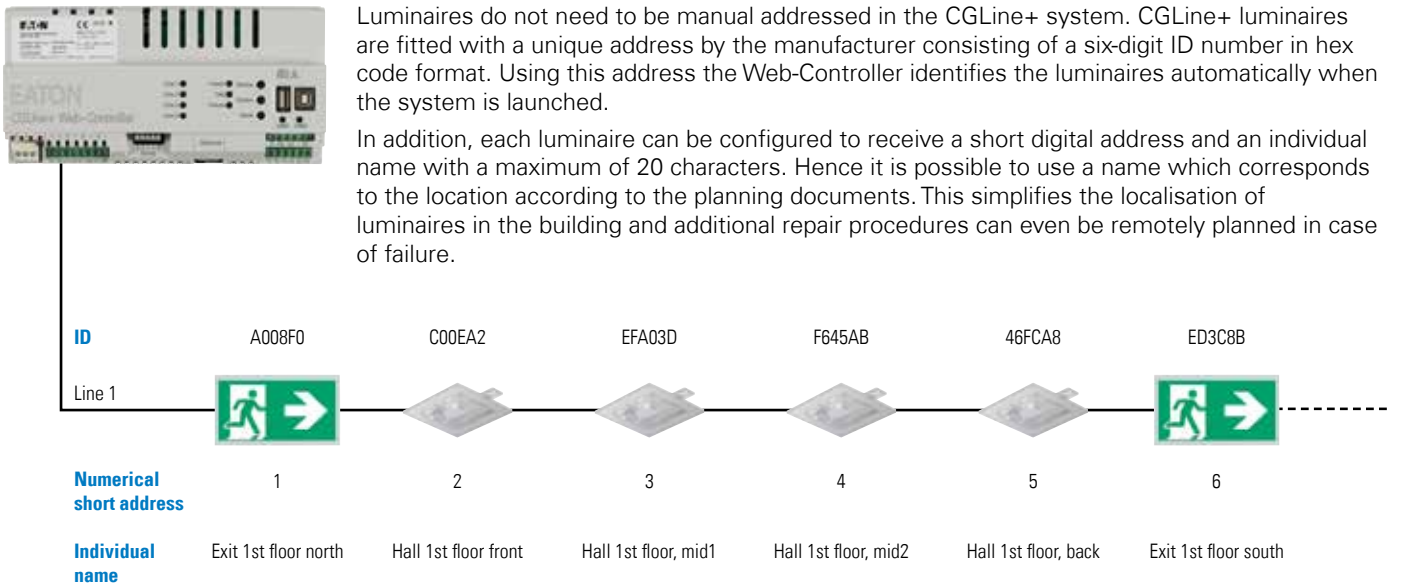


Typical installation with max. 4 lines of 200 luminaires each or 2 lines of 400 luminaires each (below).

Addressing CGLine+ luminaires

Luminaires do not need to be manual 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 simplifies the localisation of luminaires in the building and additional repair procedures can even be remotely planned in case of failure.

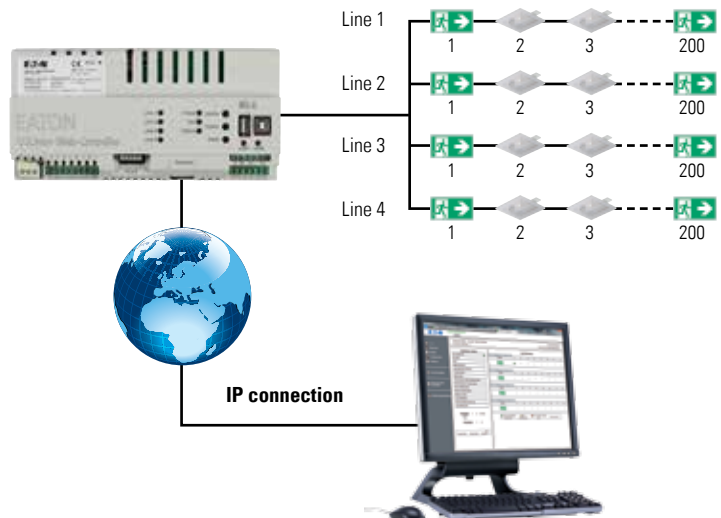


Self-contained monitoring system

CGLine+

Safety under control worldwide

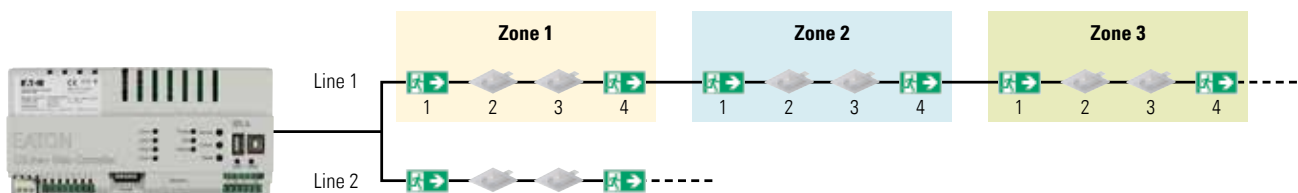
An integrated web server is available for convenient visualization, control and monitoring of all connected CGLine+ luminaires. The controller can be accessed from any PC with an IP connection and a regular web browser without requiring any special software. The controller provides an overview of faulty luminaires, regardless of where the maintenance personnel are located. Safety issues caused by failed luminaires can be evaluated and the relevant correct 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. The exit sign luminaires can be switched off or blocked in different parts of a building which are not being used at certain times. By doing this, energy costs are reduced. By blocking the signs, unintentionally discharging batteries when the mains power is switched off is avoided, for example when maintenance work is being carried out. The zone can be used immediately after turning on the mains power, because batteries have not been discharged and the luminaires can perform their safety function immediately being unblocked.



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.

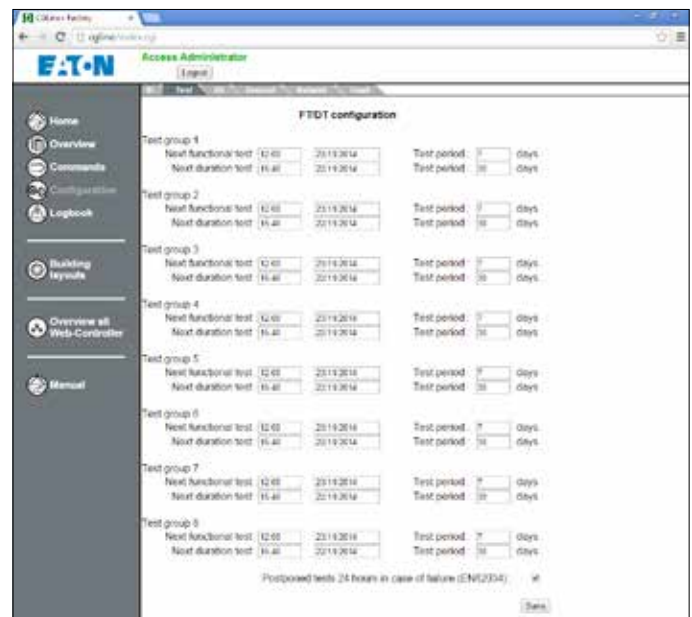
The log book is available at any time using a web browser. Data are stored for at least four years in compliance with standards.

Self-contained monitoring system

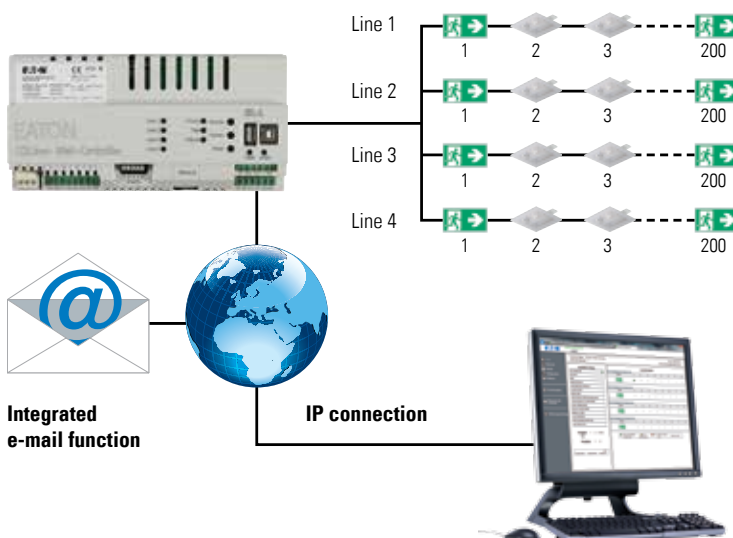
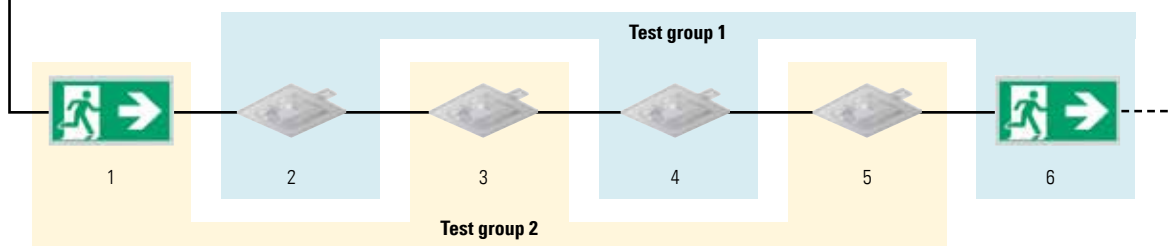
CGLine+

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 grouped 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.



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 of the building.

Self-contained monitoring system

CGLine+

Keep your bearings in complex buildings

The programming of building layout function offers new opportunities. Building layouts can be loaded in the program 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.

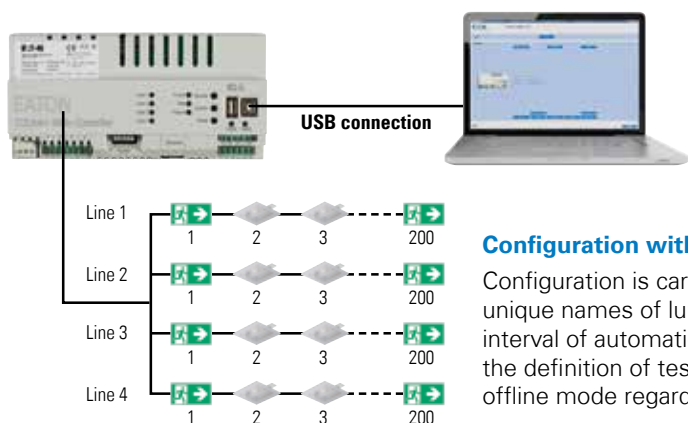
Selective assignment of commands

The web browser interface is useful for

- Blocking/unblocking 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.

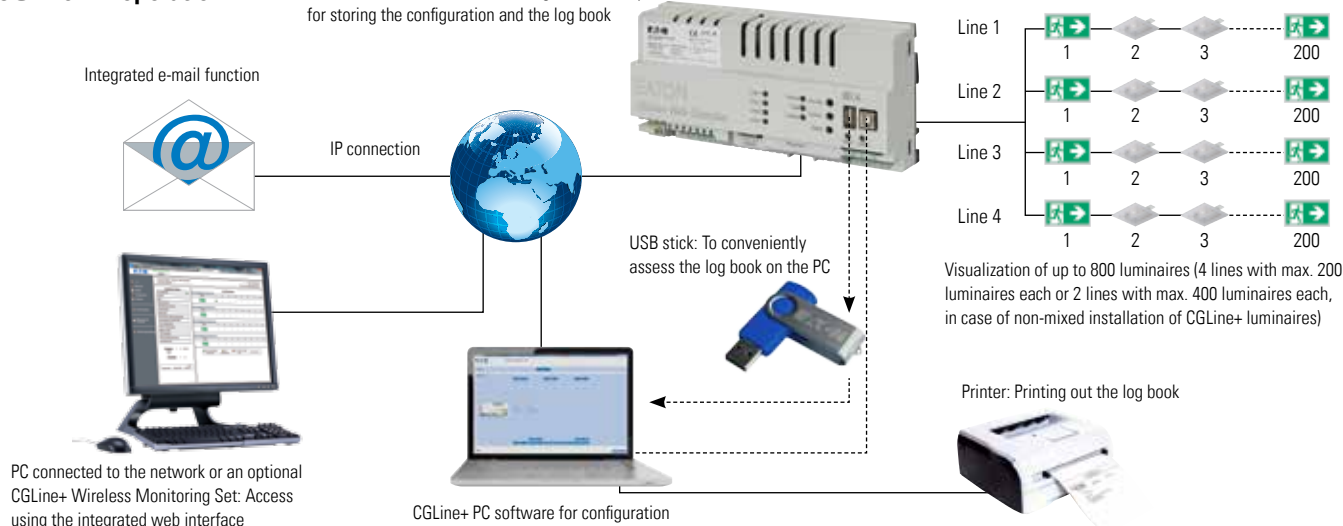


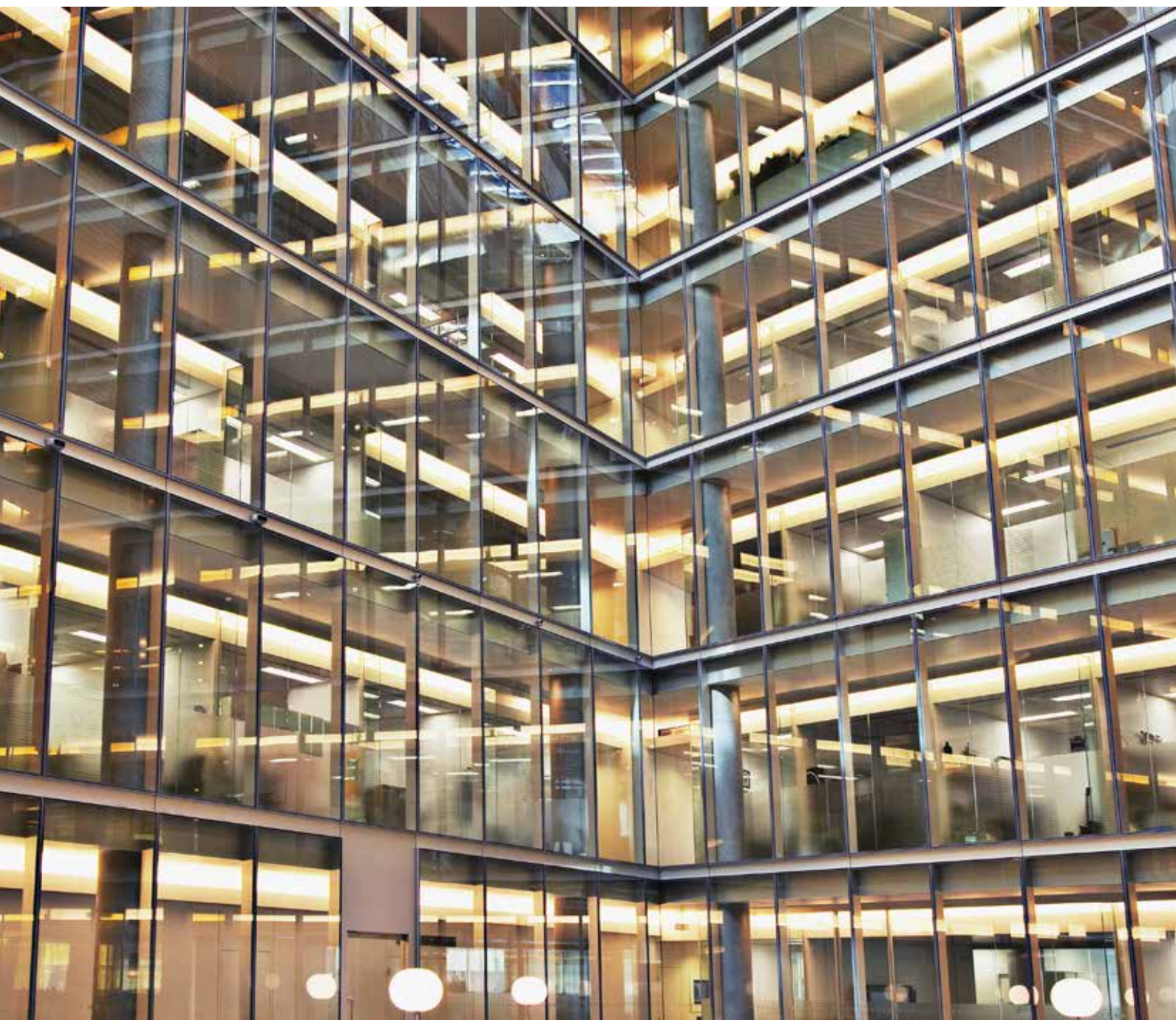
Configuration with PC software

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+ in operation

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





OPC Server for BMS

For easy facility management

A building management system (BMS) is a computer-based control system usually installed in large buildings in order to control and monitor the building's mechanical and electrical equipment such as ventilation, power systems, fire systems, lighting, etc. BMS systems are a critical component to managing energy consumption and improve reliability and life safety.

In order to support facility managers in their effort of monitoring and targeting energy consumption, improve life safety, save time and money during maintenance, Eaton enables its CGLine+ systems to communicate with their BMS through an OPC server.

Features:

- Easy BMS connection via IP based OPC DA2.0
- One OPC-Server for up to 32 CGLine+ Web-Controller
- 20 sum status information of each CGLine+ Web-Controller
- 10 commandos from BMS to each CGLine+ Web-Controller
- Definition of up to 8 function test groups & 8 duration test groups
- 20 sum status information of each single lines 1-4
- 20 sum status information of each single zone 1-16
- 16 status information of each single luminaire 1-800



Emergency lighting exit signs



Wall surface-mounting



Wall mounting with recessed LED supply



Ceiling surface-mounting



Wire suspension



Pendant suspension

LEDs for increased safety.

Longevity, instant start-up, high efficiency and small construction size are the features that make LEDs especially suitable for emergency and safety lighting. But precise matching along with low temperatures and low operating current guarantees high luminous efficacy with maximum service life.

Lightguide technology for optimal illumination

The highly developed Lightguide technology converts the high point-sourced luminance of the LED into an illuminated surface with absolutely homogeneous brightness, with luminance of over 500 cd/m² on the white surface. As such the escape sign always remains easily recognisable even with poor visibility conditions or in bright surroundings.

- Lightguide technology for perfect illumination in line with standards and for a special slender design
- High efficiency LEDs for a higher operational safety and especially low power consumption
- Minimum service requirement due to high service life of the LEDs (50,000 h)
- Versatile installation options in a continuous design without visible screw fastenings
- Lithium batteries as standard
- Integrated CGLine+ monitoring capability
- Integrated automatic self-test function

Lithium ion battery technology

Lithium ion batteries with identical capacity require much less space than NiCd or NiMh cells. This leaves more space for compact designs and cable routing. The so-called memory effect familiar with NiCd and NiMh cells is irrelevant with lithium ion cells.

Permanent safety

Capacity losses from ageing have been considered by corresponding dimensioning of the cells. A multiple protective circuit integrated in the battery ensures safe operation and high reliability.

NiCd and NiMh batteries have a significantly higher self-discharge and are therefore permanently charged. This is no longer necessary with the new GuideLed luminaires, saving additional energy costs.

Exemplary design via revolutionary technology.

Escape signs must be conspicuous enough to give clear orientation in emergencies. And discreet enough to blend unobtrusively in with the architecture. Whether installed as a wall luminaire or freely suspended, both GuideLed versions impress with clear functionality, an especially flat construction design and no visible screw connections.

Diverse types of mounting make GuideLed a real all-rounder

GuideLed represents the optimal solution for all applications with an extensive product spectrum and a wide selection of pictograms. GuideLed is supplied as standard in a discreet light grey. Further colours matched to specific architecture as well custom pictograms can be ordered on request.

Exit sign luminaire

GuideLed wall mount



11811 CGLine+

- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation
- For single point installation or connection to the CGLine+ monitoring system
- Environmentally-friendly due to modern lithium ion technology
- Low operating costs via low connected load
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m²
- Dimmable in three steps for use in dark ambient conditions
- Simple fault analysis and status display via bicolor LED and testing button
- 1 minute switch-back delay after mains return
- Blocking function prevents unintended discharge during idle operating times (only with CGLine+ WEB-Controller)



11812 CGLine+

Technical data

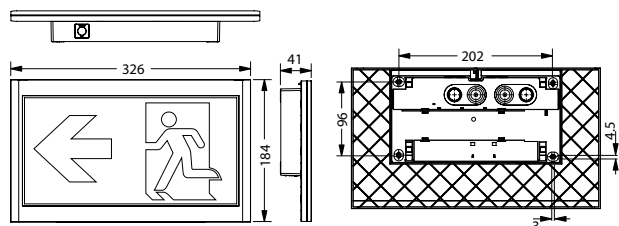
Viewing distance	24 m
Luminous flux Φ_E/Φ_N at end of rated operating time	100% at 1 h; 50% at 2 h; 15% at 8 h
Housing material	Polycarbonate, PMMA, sheet steel (semi-recessed wall housing)
Housing colour	Light grey RAL 7035
Weight	0.77 kg (11811 CGLine+) 0.97 kg (11812 CGLine+)
Type of mounting	Wall surface-mounting, insulation class II (protective earth required) Semi-recessed wall mounting; insulation class I
Terminals	Through-wiring from mains (L, L', N, PE) up to 2.5 mm ² CGLine+ bus through-wiring up to 1.5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power/effective power)	4.7 W
Permissible ambient temperature	Maintained mode -5 °C to +30 °C Non-maintained mode 0 °C to +35 °C
Battery	Lithium ion 3.7 V/2000 mAh with multiple protective circuit
Light source	LED strip
Warranty	5 years

Ordering information

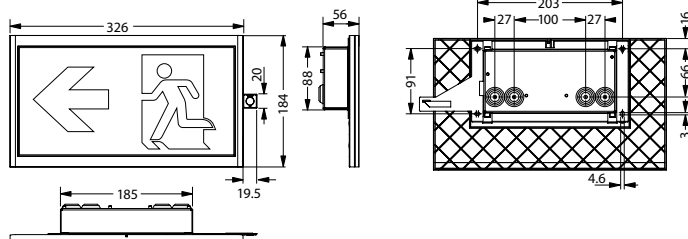
40071353260	Wall mounting set for GuideLed 11811 CGLine+, surface mounting, including LED-supply, Lithium battery and CGLine+ technology, 24m	
40071353262	Mounting set for GuideLed 11812 CGLine+, recessed mounting of the LED-supply, lithium battery and CGLine+ technology, for cavity walls, 24 m	
TBC	LED-pictogram Left for GuideLed Wall Mount, 24m	
TBC	LED-pictogram Right for GuideLed Wall Mount, 24m	
TBC	LED-pictogram Centre for GuideLed Wall Mount, 24m	

Dimensions

11811 CGLine+

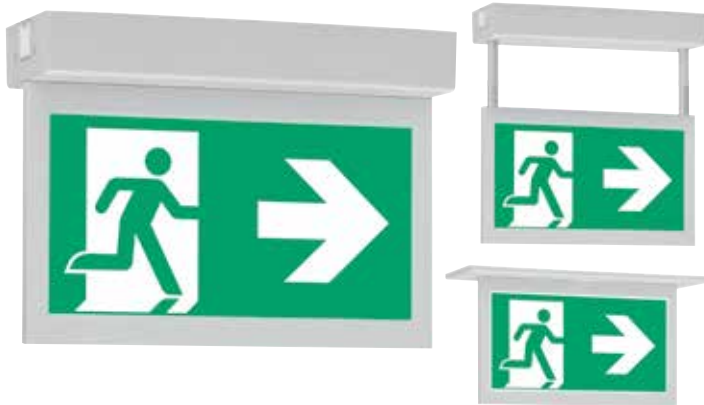


11812 CGLine+



Exit sign luminaire

GuideLed ceiling mount

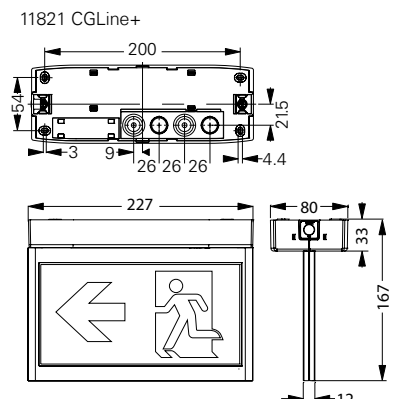
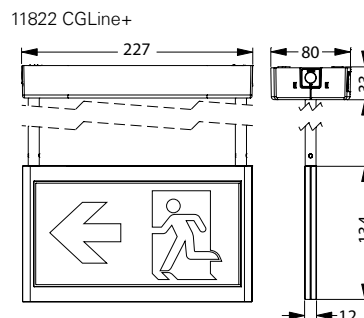
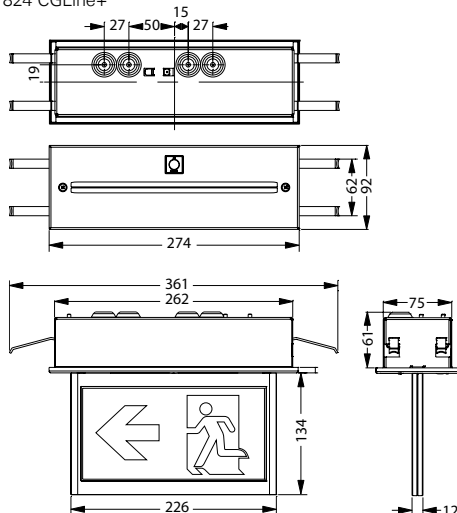


Technical data

Viewing distance	24 m
Luminous flux Φ_E/Φ_N one sided at end of rated operating time double sided	100% at 1 h; 80% at 2 h; 25% at 8 h 100% at 1 h; 50% at 2 h; 15% at 8 h
Housing material	Polycarbonate, PMMA, sheet steel (recessed housing)
Housing colour	Light grey RAL 7035
Weight	0.70 kg (10821 CGLine+) 0.80 kg (10822 CGLine+) 0.85 kg (10823 CGLine+) 1.06 kg (10824 CGLine+)
Type of mounting	Ceiling, suspended mounting; insulation class II (protective earth required)recessed ceiling mounting; insulation class I
Terminals	Through-wiring from mains (L, L', N, PE) to 2.5 mm ² CGLine+ bus through-wiring to 1.5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power / effective power)	One sided 4.1 W Double sided 5.1 W
Permissible ambient temperature	Maintained mode -5 °C to +30 °C Non-maintained mode 0 °C to +35 °C
Battery	Lithium ion 3.7 V/2000 mAh with multiple protective circuit
Light source	LED strip
Warranty	5 years

Dimensions

11824 CGLine+



- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation
- For autonomous installation or connection to the CGLine+ monitoring system
- Environmentally-friendly due to modern lithium ion technology
- Low operating costs via low connected load
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m²
- Dimmable in three steps for use in dark ambient conditions
- Simple fault analysis and status display via bicolor LED and testing button
- 1 minute switch-back delay after mains return
- Blocking function prevents unintended discharge during idle operating times (only with CGLine+ WEB-Controller)

Ordering information

40071353269	Ceiling mounting set 11821 CGLine+ with canopy, including LED-supply, Lithium battery and CGLine+ technology, 24 m	
40071353270	Ceiling mounting set 11822 CGLine+ with canopy and 0,5m pendant suspension, including LED-supply, Lithium battery and CGLine+ technology, 24 m	
40071353271	Ceiling mounting set 11823 CGLine+ with canopy and 1,5m pendant suspension, including LED-supply, Lithium battery and CGLine+ technology, 24 m	
40071353272	Ceiling mounting set 11824 CGLine+, recessed housing for ceiling thickness 1 to 25 mm and metal bezel, including LED-supply, Lithium battery and CGLine+ technology, 24 m	
TBC	LED-pictogram Left/Right for GuideLed Ceiling Mount, 24m	
TBC	LED-pictogram Centre/Centre for GuideLed Ceiling Mount, 24m	
TBC	LED-pictogram Left/Blank for GuideLed Ceiling Mount, 24m	
TBC	LED-pictogram Right/Blank for GuideLed Ceiling Mount, 24m	
TBC	LED-pictogram Centre/Blank for GuideLed Ceiling Mount, 24m	

Exit sign luminaire

GuideLed suspended



- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation
- For single point installation or connection to the CGLine+ monitoring system
- Environmentally-friendly due to modern lithium ion technology
- Low operating costs via low connected load
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 50,000 hours)
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- 1 minute switch-back delay after mains return
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Technical data

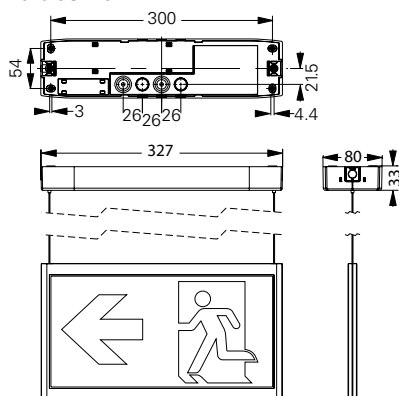
Viewing distance	24 m
Luminous flux Φ_E / Φ_N one sided at end of rated operating time double sided	100% at 1 h; 50% at 2 h; 15% at 8 h 85% at 1 h; 25% at 2 h; 8% at 8 h
Housing material	Polycarbonate, PMMA, sheet steel (11826)
Housing colour	Light grey RAL 7035
Weight	1.06 kg (11825 CGLine+) 1.57 kg (11826 CGLine+)
Type of mounting	
10825	Cable suspension (drop height max. 1.5 m); insulation class II (protective earth required)
10826	Cable suspension (drop height max. 1.5 m); insulation class I
Terminals	Through-wiring from mains (L, L', N, PE) to 2.5 mm ² CGLine+ bus through-wiring to 1.5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz
Power consumption mains operation one sided (apparent power / effective power) double sided	4.7 W 6.3 W
Permissible ambient temperature	Maintained mode -5 °C to +30 °C Non-maintained mode 0 °C to +35 °C
Battery	Lithium ion 3.7 V/2000 mAh with multiple protective circuit
Light source	LED strip
Warranty	5 years

Ordering information

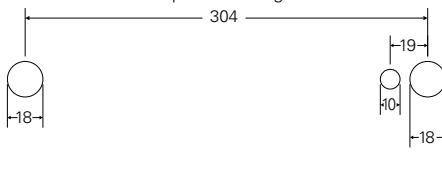
40071353273	Wire suspension set 11825 CGLine+ with canopy including LED supply, Lithium battery and CGLine+ technology, 24 m
40071353263	Wire suspension set 11826 CGLine+ with ceiling wire holder, LED-supply, Lithium battery and CGLine+ technology in additional housing with strain relief, 24m
TBC	LED-pictogram Left/Right for GuideLed Wire Suspended, 24m
TBC	LED-pictogram Centre/Centre for GuideLed Wire Suspended, 24m
TBC	LED-pictogram Left/Blank for GuideLed Wire Suspended, 24m
TBC	LED-pictogram Right/Blank for GuideLed Wire Suspended, 24m
TBC	LED-pictogram Centre/Blank for GuideLed Wire Suspended, 24m

Dimensions

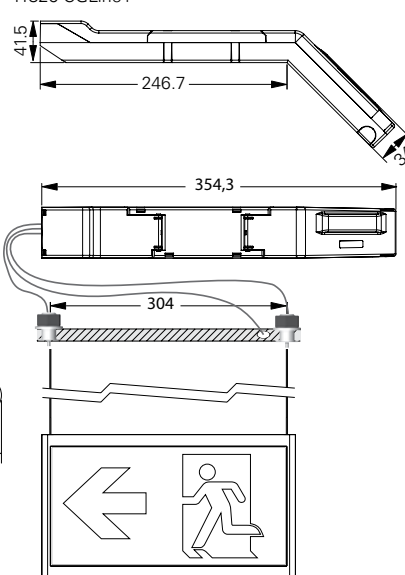
11825 CGLine+



11826 CGLine+ hole pattern ceiling



11826 CGLine+



Exit sign luminaire

CrystalWay






- Exclusive escape sign panel luminaire with LED light guide technology and automatic test for reduced inspection effort
- For autonomous installation or connection to the CGLine+ monitoring system
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, centre, blank) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension
- Unobtrusive, thin & slim electronic base (Height: only 22 mm)
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² (for bright surroundings), and high uniformity Lmin/Lmax > 0.8
- Dimmable in three steps for use in dark ambient conditions
- Simple fault analysis and status display via bicolor LED and testing button
- Blocking function prevents unintended discharge during idle operating times (only with CGLine+ Web-Controller)

Technical data

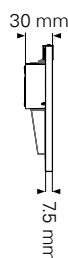
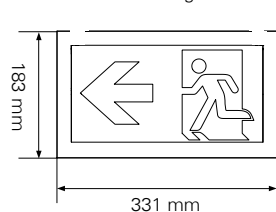
Viewing distance	24 m
Luminous flux Φ_E / Φ_{Nenn} at end of rated operating time	45% at 2 h
Housing material	Polycarbonate
Housing colour	RAL 9003
Weight	0.7 kg
Type of mounting	Wall and ceiling mounting
Connection terminals	2 x 3 x 0.5 - 2.5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power/effective power)	12 VA / 5.8 W
Battery type	Lithium ion 3.6 V/1240 mAh
Permissible ambient temperature	+10 °C up to +40 °C
Light source	LED batten
Warranty	5 years

Ordering information

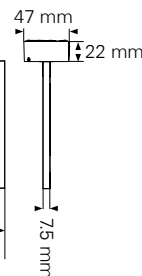
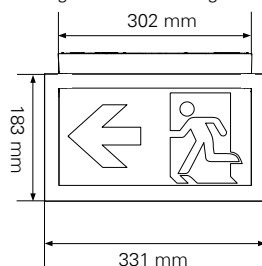
LUM17125	CrystalWay CGLine+ exit light, Lithium battery, 24m, for wall and ceiling mounting, including pictogram set (right, left, centre, blank) & magnet for manual test.
LUM10560	CrystalWay Wire suspension kit
LUM105606M	CrystalWay Wire suspension kit, 6 metres
LUM10562	CrystalWay Recessed base, for ceiling mounting, 30 m
LUM10564	CrystalWay Recessed base with bezel, for ceiling mounting, 30 m
LUM10566	Concrete box, for Recessed base with bezel, 30 m
LUM11145	CrystalWay Pictograph Centre 
LUM11146	CrystalWay Pictograph Left 
LUM11147	CrystalWay Pictograph Right 
40071352379	CrystalWay Spare Magnet for functional test

Dimensions

Wall-surface mounting



Ceiling-surface mounting



Exit sign luminaire

LED Kwiklite



Installation notes

Wall or ceiling mount.

Power connection via knockouts in top & back of universal mounting bracket.

Supplied c/w lamp or LED strip.

Weatherproof enclosure can be quickly and easily fitted on site. (purchased individually)

Application

- Commercial offices areas
- Hospitals
- Shopping centres

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Standard materials	Body, mounting bracket & backing cover - flame retardant PC+ABS, white finish Diffuser- Injection moulded polycarbonate Legend insert - Flame retardant PVC
Weight	KLED - 1.5kg,
Warranty	3 year product warranty

The New Generation Kwiklite offers one of the highest classifications in today's market.

The New Generation Kwiklite provides a solution to most applications.


A unique combination of a powerful down light and evenly illuminated exit panel provides an exceptionally high level of threshold light over the surrounding floor area, minimising the quantity of additional emergency luminaires required.

- Maintained
- One box solution - pictograph
- Long life, 50,000 hour energy efficient 3W LED
- 24m viewing distance
- IP65 enclosure available
- Slide on universal mounting bracket for wall or ceiling mount
- Options: Wire guard
Cantilever bracket
Legend kit - EXIT

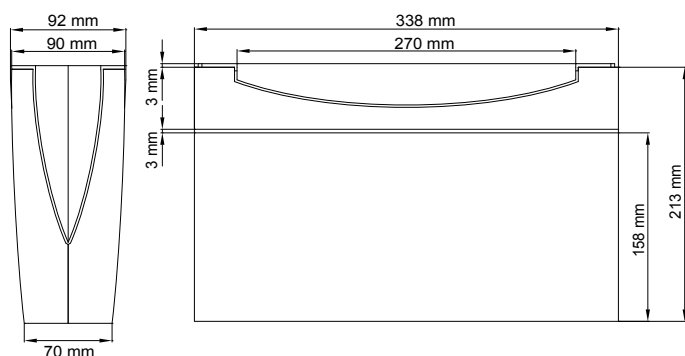
Design features

- Downlight Optic - Minimises the quantity of additional emergency luminaires required.
- Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- Slide on universal mounting bracket.
- Optional cantilever bracket.

Ordering information

KLED	3W LED 1 box solution exit, Ni-Mh
KLED-B	3W LED 1 box solution theatre exit, Ni-Mh
KLK-EX	Legend kit - EXIT
KLK-RM	Legend kit - PICTOGRAPH
WG-KWIK-CEILING	Wire guard - ceiling mount
WG-KWIK-WALL	Wire guard - wall mount
KLCL	Cantilever bracket
KLWP	IP65 weatherproof enclosure 
KLWPWM	Wall mount bracket for KLWP
KLWPCL	Cantilever bracket for KLWP
KLED-CGL	3W LED 1 box solution exit, CGLine+ monitoring

Dimensions



Exit sign luminaire

Economy LED Kwiklite



KLEDE is an attractive 3W LED exit sign designed to provide performance, uniformity and low energy usage at an 8W fluorescent price point.

- Maintained
- One box solution - pictograph
- Long life, 50,000 hour energy efficient 3W LED
- 24m viewing distance
- Slide on universal mounting bracket for wall or ceiling mount
- Options: Wire guard
Cantilever bracket
Legend kit - EXIT
IP65 enclosure

Installation notes

Wall or ceiling mount.

Power connection via knockouts in top & back of universal mounting bracket.

Weatherproof enclosure can be quickly and easily fitted on site. (purchased individually)

Application

- Commercial offices areas
- Hospitals
- Shopping centres


Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Standard materials	Body, mounting bracket & backing cover - flame retardant PC+ABS, white finish Diffuser- Injection moulded polycarbonate Legend insert - Flame retardant PVC
Weight	KLEDE - 1.5kg,
Warranty	1 year product warranty

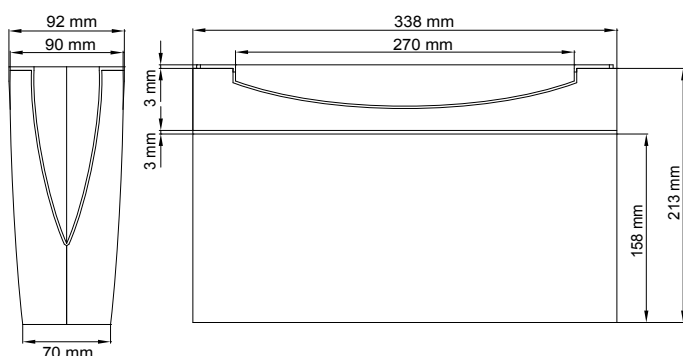
Design features

- Downlight classification C0:D4 (7.3m) ; C90:E25 (5.8m)
- Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- Slide on universal mounting bracket.
- Optional cantilever bracket.

Ordering information

KLEDE	3W LED 1 box solution exit , Ni-Cad
KLVE-EX	Legend kit - EXIT
KLVE-RM	Legend kit - PICTOGRAPH
WG-KWIK-CEILING	Wire guard - ceiling mount
WG-KWIK-WALL	Wire guard - wall mount
KLCL	Cantilever bracket
KLWP	IP65 weatherproof enclosure 
KLWPWM	Wall mount bracket for KLWP
KLWPCL	Cantilever bracket for KLWP

Dimensions



Emergency exit signs

Velos LED Blade



Installation notes

Recess mount with cut out: 315mm x 85mm
 Supply with flex and plug
 Surface mount enclosure can be quickly and easily fitted on site.
 (purchased individually)

Application

Ideally suited to a wide rage of applications where aesthetics coupled with performance are required.

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Standard materials	Body, mounting bracket & backing cover - flame retardant PC+ABS, white finish Diffuser - Injection moulded polycarbonate Legend insert - Flame retardant PVC
Weight	VELOS - 1.5kg,
Warranty	3 year product warranty

Velos blade emergency exit sign incorporates an intelligent technology that monitors the LEDs light source, upon failure of an LED the remaining LED light output is increased to maintain luminance on the legend.

With class leading performance and attractive modern styling, the Velos utilises cutting edge materials and LED light source providing a functional yet stylish emergency exit sign.

This blade emergency exit sign uses the latest innovations in plastic material to provide superior luminance across the face of the legend and provides improved visibility in low level light situations (high level smoke).

- Maintained
- One box solution - pictograph
- Long life, 60,000 hour energy efficient 3W LED
- 24m viewing distance
- Recess mount
- Options: Legend kit - EXIT
Retrofit faceplate
Surface mount enclosure

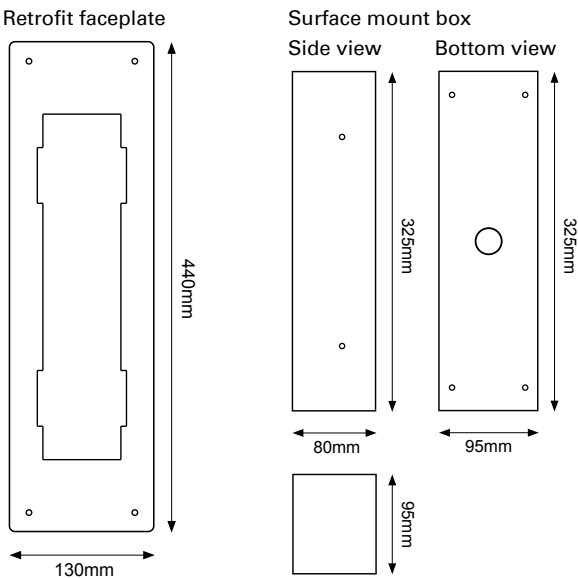
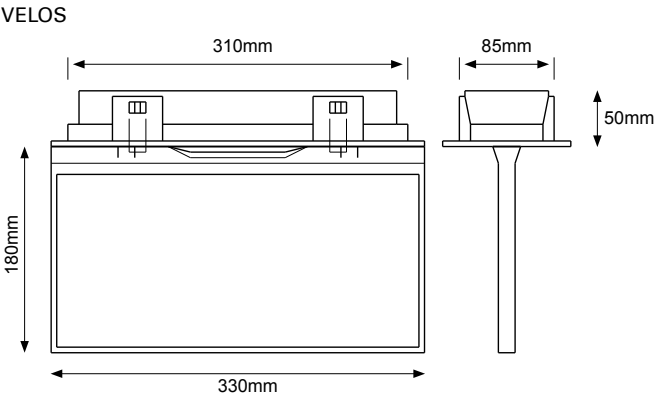
Design features

- Downlight classification
- Energy efficiency and longer life - LED option offers up to 60,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- Recess mount
- Optional surface mount enclosure

Ordering information

VELOS	3W LED 1 box solution exit blade, Ni-Cad
KLV-EX	Legend kit - EXIT
KLV-RM	Legend kit - PICTOGRAPH
VELOS-SMK	Surface mount enclosure
VELOS-FP	Retrofit faceplate
VELOS-CGL	3W LED 1 box solution exit blade, CGLine+ monitoring

Dimensions



Emergency exit signs

Velos LED Surface Mount Blade



Installation notes

Surface mount with fast-fix base

Supplied with swivel adaptors to suit wall and slope surface mounting

Recess mount adaptor with cut out: 315mm x 85mm can be quickly and easily fitted on site. (supplied)

Application

Ideally suited to a wide range of applications where aesthetics coupled with performance are required.

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Classification	C0: D5 (8.1m); C90: E3.2(6.4m)
Standard materials	Body, mounting bracket & backing cover - flame retardant PC+ABS, white finish Diffuser - Injection moulded polycarbonate Legend insert - Flame retardant PVC
Weight	VELOS - 1.5kg,
Warranty	3 year product warranty

Velos blade uses the latest innovations in plastic material to provide superior luminance across the face of the legend and provides improved visibility in low level light situations (high level smoke).

Velos, with class leading performance and attractive modern styling, utilises cutting edge materials and LED light source providing a functional yet stylish emergency exit sign.

Velos incorporates an intelligent technology that monitors the LEDs light source, upon failure of an LED the remaining LED light output is increased to maintain luminance on the legend.

- Maintained
- 24m viewing distance
- One box solution - pictograph
- Long life, 60,000 hour energy efficient 3W LED
- Surface mount - ceiling, wall and slope surface
- Recess mount - ceiling, wall and slope surface

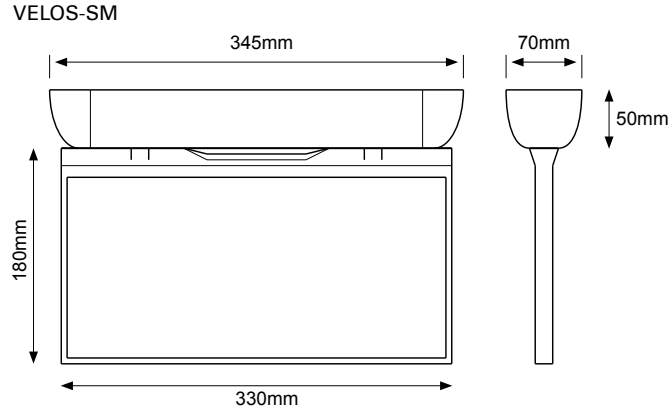
Design features

- Downlight classification
- Energy efficiency and longer life - LED option offers up to 60,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- Surface mount with swivel adaptors to suit wall and slope surface mounting
- Recess mount adaptor is included

Ordering information

VELOS-SM	3W LED 1 box solution exit blade, Ni-Cad
KLV-EX	Legend kit - EXIT
KLV-RM	Legend kit - PICTOGRAPH
VELOS-S-CGL	3W LED 1 box solution exit blade, CGLine+ monitoring

Dimensions



Emergency exit signs

LED Exlite



Installation notes

Wall or ceiling mount.
Ideal for both new and retrofit applications.
Supplied c/w LED strip.

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Standard materials	Body and gear tray - flame retardant PC+ABS, white finish Diffuser - Injection moulded polycarbonate Legend insert - Flame retardant PVC
Weight	EXM-LED-CM - 1.5kg, EXM-LED-WM - 1.2kg
Warranty	1 year product warranty

LED surface mount Exlite is designed specifically to provide exceptional performance, stunning uniformity and low energy usage.

Exlite is available as either a wall or ceiling mount one box solution exit that is guaranteed to provide a solution in wall or ceiling mount applications where cost of ownership coupled with aesthetic appearance are a major consideration.

- Maintained
- One box solution - pictograph
- Long life, 50,000 hour energy efficient 3W LED
- 24m viewing distance
- Removable gear tray ensures ease of installation
- Options: Legend kit - EXIT

Design features

- Photometric classification - Minimises the quantity of additional emergency luminaires required.
- Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.

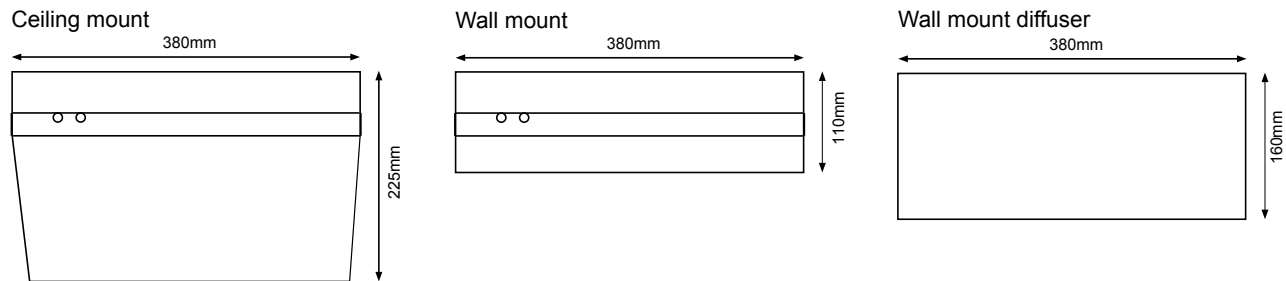
Application

- Commercial offices areas
- Restaurants
- Hospitals
- Shopping centres

Ordering information

EXM-LED-WM	3W LED 1 box solution exit, wall mount, Ni-Cad
EXM-LED-CM	3W LED 1 box solution exit, ceiling mount, Ni-Cad
EXM-EX	Legend kit - EXIT
EXM-RM	Legend kit - Pictograph

Dimensions



Emergency exit signs

LED Ultimate Exit



Installation notes

Wall, ceiling, pendant or cantilever mount.
 Universal BESA mounting bracket supplied with fixture.
 Entry drill outs on rear, sides & top.
 Pictograph opal insert to be fixed on site as required.
 Diffuser retained by stainless steel Torx head screws
 Supplied c/w LED light strip.
 Body and legend sold separately.

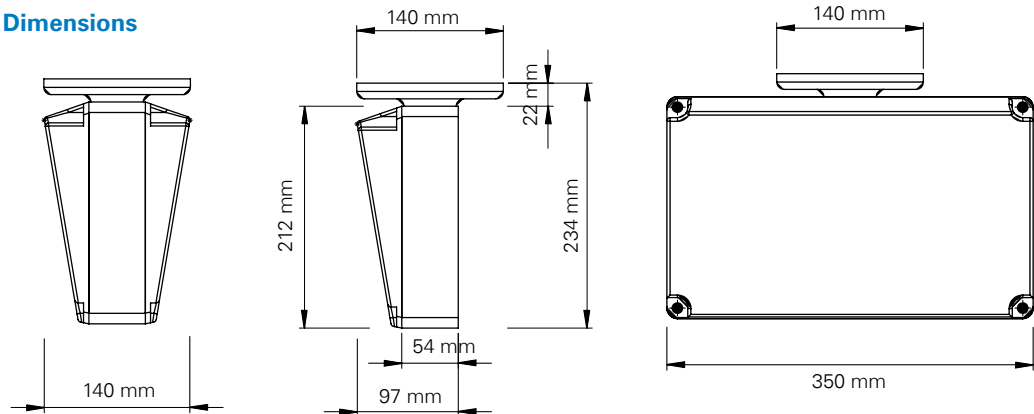
Application

- Food processing facilities,
- Outdoor parking garages,
- Walk-in freezers,
- Indoor/outdoor severe environments.

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED strip 2 hour emergency duration
Standard materials	Body - heavy duty die cast aluminium, powder coated - grey finish Diffuser - UV stable, clear polycarbonate, vandal resistant Gear tray - powder coated steel, white finish
Weight	4.7kg
Warranty	3 year product warranty

Dimensions



IP66 Ultimate Exit is a long-life, low-maintenance, dependable exit sign which combines the strength and durability of die-cast aluminium with architecturally pleasing aesthetics.

Designed for the most severe environments, the UXM-LED exit will provide maximum performance against rain, moisture, cold, corrosives, and dust.

The injection-moulded, clear, polycarbonate diffuser not only provides protection against moisture and rain but vandalism as well.

- Maintained
- Long life, 50,000 hour energy efficient 3W LED
- 24m viewing distance
- Vandal resistant polycarbonate diffuser
- Complete with 2 x diffusers (clear only) for single or double sided applications
- Universal mount
- IP66, diecast aluminium housing powder coated finish

Design features

- Energy efficiency and longer life - LED option offers up to 50,000 hours lamp life and is up to 60% more energy efficient than a 10W fluorescent tube.
- Robust vandal resistant construction.

Ordering information

UXM-LED	3W maintained LED housing, Ni-Cad
UXM-LED-FR	3W maintained LED housing -30° Freezer Room, Ni-Cad
UX-EC	Pictograph legend centre
UX-EL	Pictograph legend left
UX-ER	Pictograph legend right
UX-EXC	EXIT legend centre
UX-EXL	EXIT legend left
UX-EXR	EXIT legend right
UXM-LED-CGL	3W maintained LED housing, Ni-Cad CGLine+ monitoring

Emergency exit signs

Jumbo LED exit



Installation notes

Suitable for wall or ceiling mounting
Chain mount, suspension
Cable entry on rear or top, with large terminal block

Application

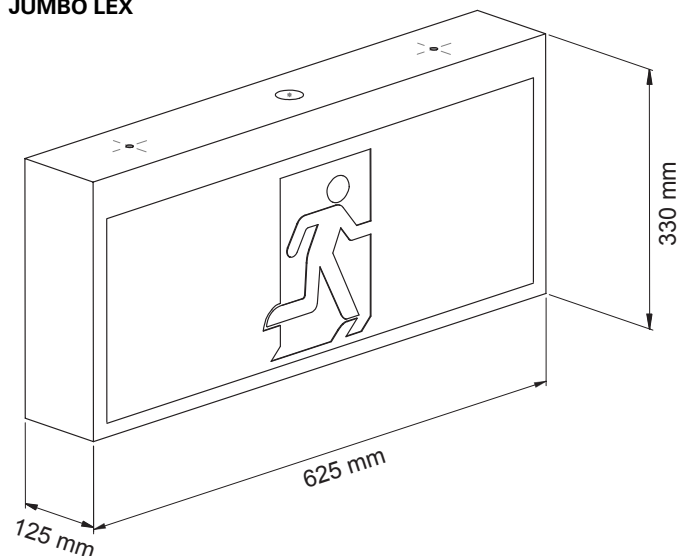
- Exhibition spaces
- Warehouses
- Entertainment centres
- Factories

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz 220VDC ; DC current: 0.06A (LEX-LED-40M-CG)
Lamp detail	12W 6500K (Samsung LM561B) 2 hour emergency duration
Standard materials	Body and gear cover - steel powder coated in RAL9016 white Diffuser - UV stable, 4.5mm opal acrylic
Weight	5.3 kg
Warranty	3 years

Dimensions

JUMBO LEX



Jumbo LED is a traditionally styled emergency exit sign. LEX provide a large format exit sign that is ideally suited to large, open plan areas.

Robustly constructed, the luminaire features a screw fixed frame that securely retains the legend panel.

- Maintained
- Complete with single sided pictograph centre
- 12W LED
- 40m viewing distance
- Surface mount, chain suspension
- Single or double sided
- White powder coated steel housing
- Options:
Computer monitored CGLine+
Computer monitored CEAG central battery

Design features

- High quality control gear and LED
- Low power consumption
- Simple to install

Ordering information

LEX-LED-40M	LED maintained, 2 hours, self-contained Ni-Cad, pictograph centre
LEX-LED-40M-CGL	LED maintained, 2 hours, self-contained CGLine+ monitored, pictograph centre
LEX3-C	Single sided diffuser, pictograph centre
LEX3-L	Single sided diffuser, pictograph left <
LEX3-R	Single sided diffuser, pictograph right >
LEX3-E	Single sided diffuser, EXIT centre, c/w peel off arrow

Emergency exit signs

IP66 Jumbo LED exit



Built using premium Halyester GRP enclosure, Eaton Weatherproof Jumbo exit guarantees long-standing service under such stringent operating conditions as oil, chemical plants, food processing and heavy industry. The enclosures are UV resistant, dust and jet water tight to a degree of protection IP66

- Maintained
- Complete with single side pictograph centre
- 12W LED
- 40m viewing distance
- Glass-mat reinforced polyester housing
- Options:
 - Computer monitored CGLine+
 - Computer monitored CEAG central battery

Installation notes

IP66 rating if install correctly using suitable gland and fixing method

Suitable for wall or ceiling mounting

Provision for chain mount, suspension if using correct hardware, plate

Application

- Warehouses
- Outdoor space
- Factories
- Carpark

Technical data

Operation mode	Maintained
Operation voltage	240V, 50Hz 220VDC, DC current: 0.06A
Lamp detail	12W 6500K (Samsung LM561B) 2 hour emergency duration
Standard materials	Body - Glass-mat reinforced polyester Clear cover – high quality polycarbonate. Pictograph legend – UV stable, 4.5mm opal acrylic
Weight	4.5 kg
Warranty	3 years

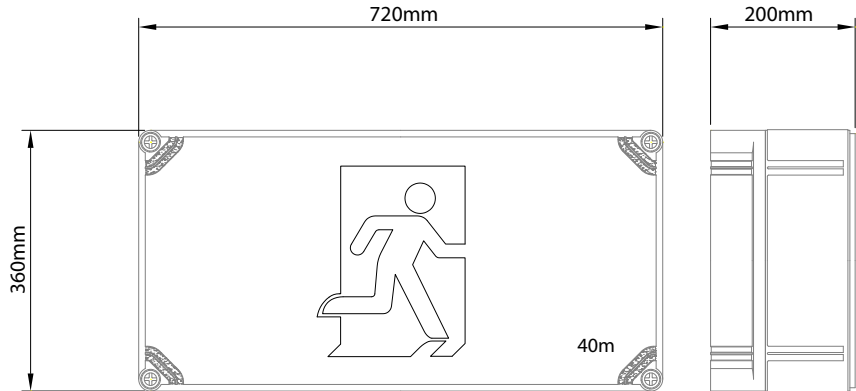
Design features

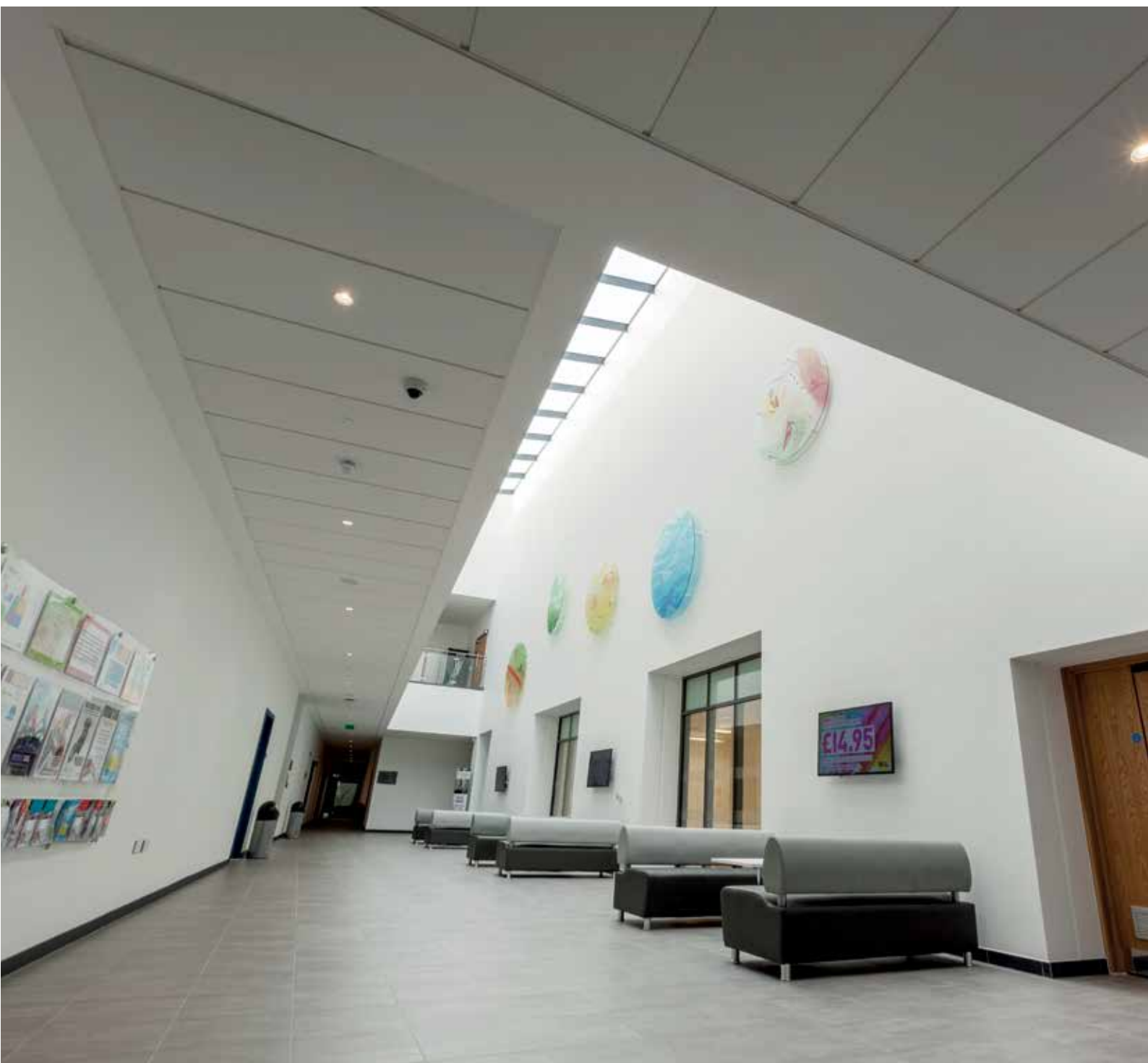
- IP66 dust and jet water protection to suit outdoor and wash down area
- High quality control gear and LED
- Low power consumption
- Simple to install

Ordering information

LEX-LED-IP66-40M	LED maintained, IP66, 2 hours, self-contained Ni-Cad
LEX-LED-IP66-40M-CGL	LED maintained, IP66, 2 hours, self-contained CGLine+ monitored
LEX-LED-IP66-40M-CG	LED maintained, 2 hours, central battery CG-S monitored
LEX4-C	Single sided diffuser, pictograph centre
LEX4-L	Single sided diffuser, pictograph left<
LEX4-R	Single sided diffuser, pictograph right>
LEX4-E	Single sided diffuser, EXIT centre, c/w peel off arrow

Dimensions

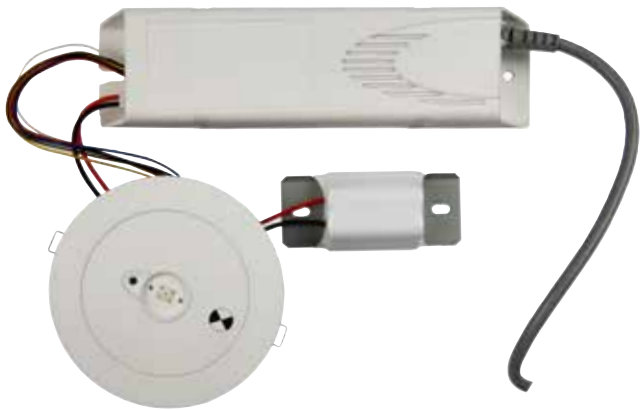




Emergency luminaires

Interior emergency luminaires

UFO LED



Installation notes

Suitable for flush mounting into suspended ceilings.
 Spinning assembly retained by steel clips.
 Plug and go assembly.

Application

- Stairwells and other escape route areas
- Offices
- Restaurants
- Hospitals
- Shopping centres

Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED 2 hour emergency duration
Standard materials	Housing - PC + ABS, choice of black or white finish Spinning assembly - PC + ABS
Weight	0.6kg
Warranty	3 year product warranty

Recessed UFO LED is a stylish, modern and easy to install non maintained luminaire suitable for both new and retrofit applications.

LED technology offers new possibilities for emergency lighting, allowing luminaires to be more discreet, use less energy, have a lower environmental impact and require dramatically less maintenance than before.

- Non maintained
- Recessed
- LED
- Superior light output
- Versatile construction
- Theatre option
- Choice of spinning assembly sizes
- Ideal for both new & retrofit applications

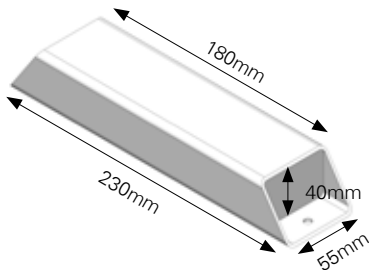
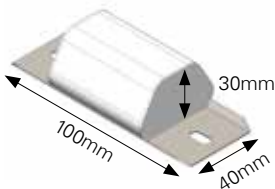
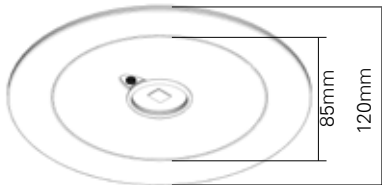
Design features

- Superior light output - C0, C90: D40
- Energy efficiency and longer life - 50,000 hours
- Dual rate charge inverter -very low stand by usage
- 85mm spinning for new applications (70mm cut out)
- Adaptor plate for retrofit applications (up to 110mm cut out)
- Spring fixing allows installation on ceilings from 1mm to 20mm

Ordering information

UFO-LED	Recessed mount non maintained emergency (complete fitting, white finish) Ni-Mh
UFO-LED-B	3W LED black Theatre mask non-maintained emergency
UFO-LED-BLK	Theatre conversion kit - KIT ONLY (spinning and adaptor plate only, black finish)
UFO-LED-CD	IP44 recessed mount non maintained emergency (complete fitting and clear dome, white finish)
UFO-LED-CGL	Recessed mount non maintained emergency, CGLine+ monitoring

Dimensions



Interior emergency luminaires

UFO Surface Mount



UFO-LED surface mount has been designed to ease installation, reduce power consumption and minimise maintenance,

- Non maintained
- Surface mount LED
- Superior light output
- Modern light weight construction
- Ideal for both new & retrofit applications
- Available as a complete luminaire or conversion kit for existing UFO-LED's

Installation notes

Surface mount onto ceilings & where required walls.
Lower base plate fixed direct, via mounting hole.
Knockout provided on housing for surface conduit entry.

Application

- Stairwells and other escape route areas
- Offices
- Restaurants
- Hospitals
- Shopping centres
- Carparks
- Warehouses
- Factories

Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED 2 hour emergency duration
Standard materials	Housing - PC + ABS
Weight	0.7kg (complete fitting) 0.4kg (kit only)
Warranty	3 year product warranty

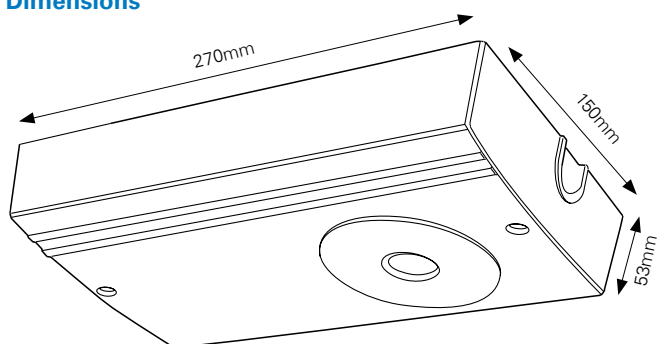
Design features

- Superior light output - C0, C90: D40
- Energy efficiency and longer life - 50,000 hours.
- Dual rate charge inverter -very low stand by usage
- Environmentally friendly Ni-Mh battery pack
- 3 x 20mm conduit entries
- Light weight PC + ABS construction for ease of installation

Ordering information

UFO-LED-SM	Surface mount non maintained emergency (complete fitting, white finish) Ni-Mh
UFO-LED-SM-B	Theatre surface mount non maintained emergency (complete fitting, black finish) Ni-Mh
UFO-LED-SMK	Surface mount conversion kit used to quickly and effortlessly transform recessed mount UFO LED to a surface mount luminaire.
UFO-LED-SM-CGL	Surface mount non maintained emergency (complete fitting, white finish) CGLine+ monitoring

Dimensions



Emergency floodlight

LED Gemini Junior



Installation notes

- Suitable for wall mounting
- Cable entry on both sides
- Direct screw fixed with keyhole slots
- Lamp heads swivel and tilt, locked in position by screws

Application

- Warehouses
- Factories
- Any areas with high ceilings

Technical data

Operation mode	Non-maintained
Operation voltage	240V, 50Hz
Lamp detail	2 high intensity LED
Standard materials	Body - sheet steel, powder coated
	Lamp heads - polycarbonate, Ingress Protection: IP20 rating
	Batteries Ni-Cd battery cells, 9.6V 2500mAh
Weight	2.1 kg
Warranty	3 year warranty

Combining flexibility and ease of installation, Gemini Junior LED floodlight represents exceptional value for money.

This competitive beam projector is suitable for a wide variety of installations, with a choice of top or side mounting of the lamp heads, with multi directional swivel and tilt facility ensuring that exactly the right aiming angle is achieved.

Twin LED's provide peace of mind, covering individual lamp failure in addition to mains and charging status. When cost is paramount, Gemini Junior is an excellent choice for factory and high ceiling applications.

- Non-maintained
- Exceptional performance
3 hour duration self-contained emergency luminaire
- Can be used for high risk task area applications
- NiCd batteries for reduced weight and carry handle for ease of install
- 20mm knock out on both sides for cable entry
- Multi-direction lamp heads for application
- 2 high intensity LED heads and twin LED indicators
- Options:
CGLine+ monitored

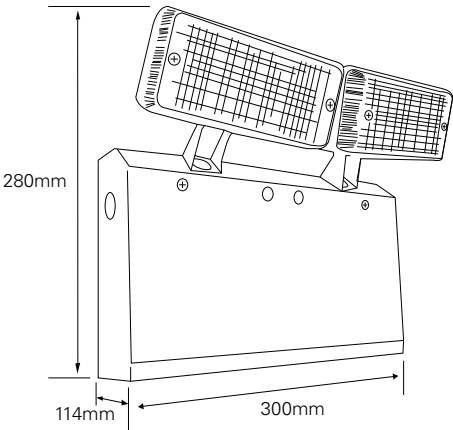
Design features

- IP20 2 high intensity LED heads and twin LED indicators
- Sheet steel, powder coated enclosure with removable front access door

Ordering information

GEMJAU	LED twinspot 256lm
GEMJAU-CGL	LED twinspot 256lm, CGLine+ monitored

Dimensions



Emergency floodlight

ZCC4



Installation notes

Wall and ceiling mount.

Factory fitted 3 core flex and 3 x pin plug.

Direct screw fixed with keyhole slots in rear of housing.

Supplied c/w lamps.

Application

- Shopping centres,
- Public auditoriums/ sport halls
- Warehouses
- Factories
- Commercial premises

Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	6V, 9W Incandescent - GE908 2 hour emergency duration
Standard materials	Body and lamp heads - fire retardant PC + ABS, white finish Lamp heads - PC + ABS white finish with clear lens
Weight	3.6kg
Warranty	1 year product warranty

The ZCC4 emergency floodlight is the ideal choice when simple installation coupled with reasonable cost is required.

Contemporary round corner styling, designer white finish, and consistent family appearance enables the ZCC4 to blend with any decor. The components are injection moulded from tough polycarbonate materials which resist discoloration due to age and ultraviolet radiation.

- Non maintained
- 2 x 9W
- Housing tethered to mounting plate
- Fully adjustable, high impact polycarbonate lamp heads
- Complete with standard 3 core and pin plug
- Glare free trapezoidal light distribution
- Impact and flame resistant thermoplastic
- Sealed Lead Acid battery

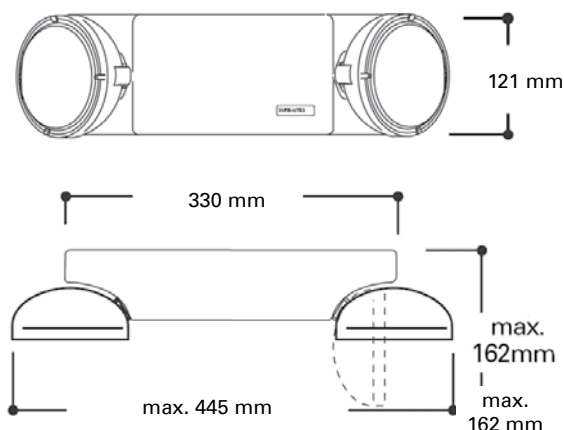
Design features

- Lamp heads swivel and tilt
- Compact and attractive
- Lead acid battery

Ordering information

ZCC4	2 x 9W economy non maintained emergency flood light
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Dimensions



Exterior emergency luminaires

i-P65+



Installation notes

Suitable for wall or ceiling mounting
 Mounting bracket for chain suspension option
 Supplied with M20 cable gland

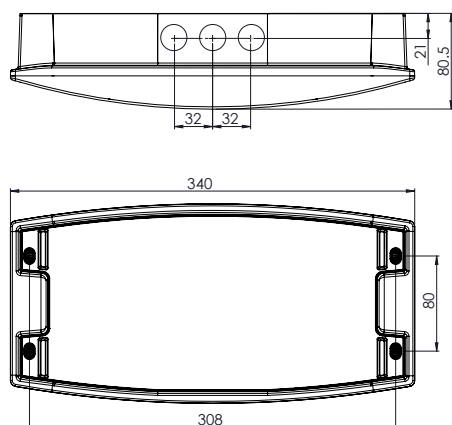
Application

- Indoor/ outdoor
- Stair well
- Ware houses
- Factories
- Carpark

Technical data

Operation mode	Maintained, non-maintained
Operation mode	L = Wide angle, H = Narrow angle
Operation voltage	240V, 50Hz
Lamp detail	LED 6.5W 3 hour emergency duration
Standard materials	Body – high impact polycarbonate or aluminium Clear cover – high quality opaque polycarbonate.
Weight	1.8 kg (Polycarbonate), 2.3 kg (Aluminium)
Warranty	3 years

Dimensions



The i-P65+ luminaire was developed specifically for requirements in industrial environments.

With a combination of high-efficiency LEDs and special optics, the i-P65+ provides optimum performance for a variety of applications. The housing construction features an IP65 protection rating and IK08 impact resistance, making it ideal for ambient conditions in the industrial sector. The photometric and electronic components including batteries are designed for reliable functionality with continuous ambient temperatures up to 40°C.

The lens optic emits almost square light distribution over a very large area. This makes it especially suitable for large halls. The reflector solution was specifically developed for extreme mounting heights in combination with tight escape routes, e.g. with highbay racking applications, where in the case of wrong light distribution more light is distributed into the shelving than for safety along the escape routes.

- Fixture level L70 60,000hrs
- Mounting bracket for chain suspension option
- IP65, IK08 high impact resistance polycarbonate or aluminium body
- Impact and heat resistant polycarbonate diffuser
- Luminous flux:
Narrow beam: 690lm
Wide beam: 900lm
- Options:
Computer monitored CGLine+
Computer monitored CEAG central battery

Design features

- IP65 dust and water protection to suit outdoor area
- High quality control gear and LED
- Low power consumption
- Simple to install

Ordering information

iP65PLP3HAU	Maintained/non-maintained emergency 3h, PC body, wide angle
iP65PHP3HAU	Maintained/non-maintained emergency 3h, PC body, narrow angle
iP65PLA3HAU	Maintained/non-maintained emergency 3h, Alu body, wide angle
iP65PHA3HAU	Maintained/non-maintained emergency 3h, Alu body, narrow angle
iP65PLP3HAU-CGL	Maintained/non-maintained emergency 3h, PC body, wide angle, CGLine+ monitored
iP65PHP3HAU-CGL	Maintained/non-maintained emergency 3h, PC body, narrow angle, CGLine+ monitored
iP65PLA3HAU-CGL	Maintained/non-maintained emergency 3h, Alu body, wide angle, CGLine+ monitored
iP65PHA3HAU-CGL	Maintained/non-maintained emergency 3h, Alu body, narrow angle, CGLine+ monitored



Battens

Interior emergency luminaires

ETBT battens



Ordering information

Diffuser	
ETBT624	LED 24W 600MM 4000K, mains only, 2580lm
ETBT1224	LED 24W 1200MM 4000K, mains only, 2670lm
ETBT1248	LED 48W 1200MM 4000K, mains only, 5440lm
ETBT624S	LED 24W 600MM 4000K, mains only, 2580lm, motion sensor
ETBT1248S	LED 48W 1200MM 4000K, mains only, 5440lm, motion sensor
ETBT624EM	LED 24W 600MM 4000K, Emergency, Ni-Cad
ETBT1224EM	LED 24W 1200MM 4000K, Emergency, Ni-Cad
ETBT1248EM	LED 48W 1200MM 4000K, Emergency, Ni-Cad
ETBT624SEM	LED 24W 600MM 4000K, Emergency, Ni-Cad, motion sensor
ETBT1248SEM	LED 48W 1200MM 4000K, Emergency, Ni-Cad, motion sensor
ETBT624LF-CGL	LED 24W 600MM 4000K, Emergency, LiFePO4, CGLine+ monitor
ETBT1224LF-CGL	LED 24W 1200MM 4000K, Emergency, LiFePO4, CGLine+ monitor
ETBT1248LF-CGL	LED 48W 1200MM 4000K, Emergency, LiFePO4, CGLine+ monitor
ETBT624SLF-CGL	LED 24W 600MM 4000K, Emergency, LiFePO4, motion sensor, CGLine+ monitor
ETBT1248SLF-CGL	LED 48W 1200MM 4000K, Emergency, LiFePO4, motion sensor, CGLine+ monitor
Wire Guard	
ETBTWG624	LED 24W 600MM 4000K, mains only, 2580lm
ETBTWG1248	LED 48W 1200MM 4000K, mains only, 5440lm
ETBTWG624S	LED 24W 600MM 4000K, mains only, 2580lm, motion sensor
ETBTWG1248S	LED 48W 1200MM 4000K, mains only, 5440lm, motion sensor
ETBTWG624EM	LED 24W 600MM 4000K, Emergency, Ni-Cad
ETBTWG1248EM	LED 48W 1200MM 4000K, Emergency, Ni-Cad
ETBTWG624SEM	LED 24W 600MM 4000K, Emergency, Ni-Cad, motion sensor
ETBTWG1248SEM	LED 48W 1200MM 4000K, Emergency, Ni-Cad, motion sensor
ETBTWG624LF-CGL	LED 24W 600MM 4000K, Emergency, LiFePO4, CGLine+ monitor
ETBTWG1248LF-CGL	LED 48W 1200MM 4000K, Emergency, LiFePO4, CGLine+ monitor
ETBTWG624SLF-CGL	LED 24W 600MM 4000K, Emergency, LiFePO4, motion sensor, CGLine+ monitor
ETBTWG1248SLF-CGL	LED 48W 1200MM 4000K, Emergency, LiFePO4, motion sensor, CGLine+ monitor

LED Diffused/Wire Guard Batten ETBT battens with reliable high quality output LEDs

ETBT battens are designed for wall, ceiling or suspended indoor applications and are particularly suitable for high ceiling warehouses, halls or underground car parks where extra width is required to cover junction boxes with standard wide body size is ideal retrofit for existing T8 T5 wide body project battens

Mains and emergency battens with reliable high output LED also offer a variety of option in the form of diffused, wire guards luminaires with motion sensor technology to reduce overall energy usage in standby application such as stairwell, corridor, plant room.

- IP20
- Supplied with diffuser or wire guard
- Suitable for direct fix, trunking, conduit or chain suspension
- BESA entries across range
- End cable entry via knockout in bare, diffused & wire guard
- Options:
 - Mains only 220/240VAC 50/60Hz
 - Self-contained
 - Maintained Emergency
 - CGLine+ Computer monitored system
 - CEAG Computer monitored Central Battery System
 - Motion sensor

Application

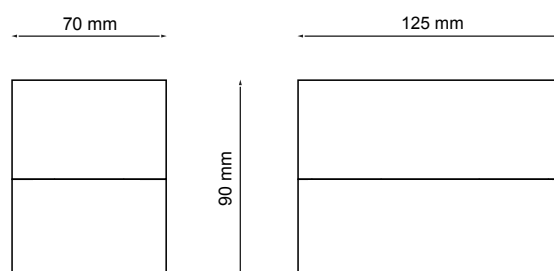
- General commercial interiors,
- Retail stores
- Carparks
- Passageways

Technical data

Operation mode	Mains only, Emergency
Operation voltage	240V, 50Hz
Lamp detail	High efficacy linear LED light engines >80CRI, 4000°K
	Tridonic driver as standard 12W, 24W and 48W Samsung 2835 LM281B LED
Standard materials	Body assembly - rigid steel wide channel, powder coated in RAL9016 finish white Diffuser - UV stabilized opal polycarbonate End caps - injection molded ABS, UV stabilized and fire retardant, color matched white finish Wire Guard - Heavy gauge welded steel, powder coated white
Warranty	3 years

Dimensions

Dimension - Lamp	L (mm)	W (mm)	D (mm)
12W LED diffused/wire guard batten	620	125	108
24W LED diffused/wire guard batten	1230	70	90
48W LED diffused/wire guard batten	1230	125	90



Interior / exterior emergency luminaires

VersaLite



Installation notes

Surface mount rear brackets supplied, removing the need to drill the housing base

Gear tray hangs on the body for ease of install, locates in final position with tool free clips

1x 20mm cable entry hole in housing end, supplied with IP gland & sealing bung

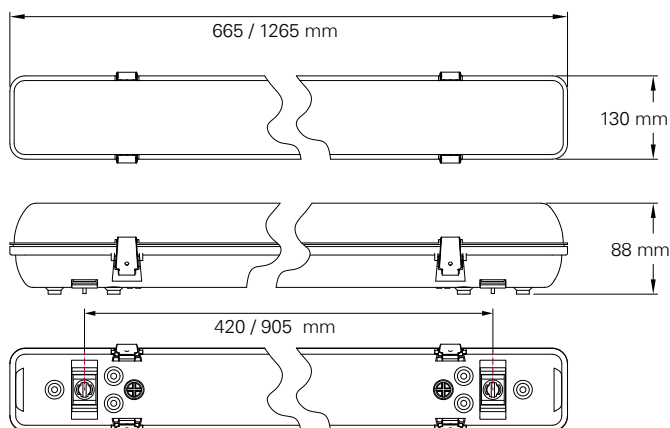
Simple to use diffuser clips with security screws to lock them in the closed position as anti -tamper feature and ensures access only through toolled entry to the luminaire

This luminaire is IP65, IK10 rated, this rating only applies when the luminaire is installed observing the correct orientation

Technical data

Operation mode	Mains only, emergency maintained/ non-maintained
Operation voltage	240V/ 50Hz, 19W - 42W
Lamp detail	LED 18W - 40W
Certification	AS2293:2005, CISPR15:2011
Standard materials	Body – PC, Diffuser – PC
Weight	Mains only & emergency: 600mm: 1.4 & 2.3 kg 1200mm: 2.5 & 3.4 kg
Warranty	3 year product warranty

Dimensions



VersaLite is a versatile general purpose, IP65 rated, IK10 weatherproof luminaire

Linear LED light engines and efficient control gear provide class leading performance; they are protected by a polycarbonate housing and prismatic diffuser delivering a uniform lit appearance. 2 hour maintained lithium battery emergency version available.

With matching mains, emergency and with optional motion sensor, VersaLite delivers choice and flexibility to suit a wide range of applications

- Fixture level L70 50,000hrs
- Fast fix mounting clips for rapid installation
- Uniform lit appearance, no shadowing
- 4000° Kelvin colour temperature, CRI 80, IP65, IK10
- 4650 lumen output (42W)
- High efficiency of 110 (m/cW)
- Impact and heat resistant prismatic polycarbonate diffuser secured with anti-tamper diffuser clips
- Lumen output to match and exceed traditional fluorescent technology with reduced energy consumption

Design features

- High efficacy linear LED light engines
- >80 CRI, 4000K colour temperature
- Optional microwave sensor control gear

Application

- Warehousing
- Plant rooms
- Carparks
- Loading/storage spaces
- Assembly areas (where high ingress protection and robust construction are required.)

Ordering information

VL62100	VersaLite IP65, 2100lm 4000K HF 0.6m twin, mains only
VL124600	VersaLite IP65, 4650lm 4000K HF 1.2m twin, mains only
VL62100S	VersaLite IP65, 2100lm 4000K HF 0.6m twin, mains only, motion sensor
VL124600S	VersaLite IP65, 4650lm 4000K HF 1.2m twin, mains only, motion sensor
VL62100EM	VersaLite IP65, 4000K HF 0.6m twin, emergency
VL124600EM	VersaLite IP65, 4000K HF 1.2m twin, emergency
VL62100SEM	VersaLite IP65, 4000K HF 0.6m twin, emergency, motion sensor
VL124600SEM	VersaLite IP65, 4000K HF 1.2m twin, emergency, motion sensor
VL62100LF-CGL	VersaLite IP65, 4000K HF 0.6m twin, emergency, CGLine+ monitor, LiFeP04
VL124600LF-CGL	VersaLite IP65, 4000K HF 1.2m twin, emergency, CGLine+ monitor, LiFeP04
VL62100SLF-CGL	VersaLite IP65, 4000K HF 0.6m twin, emergency, CGLine+ monitor, motion sensor, LiFeP04
VL124600SLF-CGL	VersaLite IP65, 4000K HF 1.2m twin, emergency, CGLine+ monitor, motion sensor, LiFeP04

Interior / exterior emergency luminaires

VersaLite circular



Installation notes

Suitable for wall or ceiling mounting

Surface mount rear brackets supplied, removing the need to drill the housing base

Gear tray and diffuser hangs on the body for ease of install, locates in final position with tool free clips

Cable entry holes supplied with sealing bung

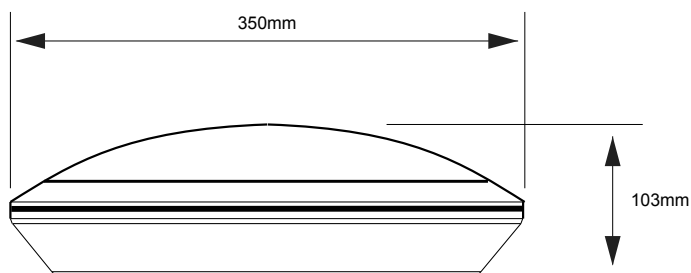
Simple to use diffuser clips with screws lock

This luminaire is IP65, this rating only applies when the luminaire is installed observing the correct orientation

Technical data

Operation mode	Maintained, non-maintained
Operation voltage	240V/ 50Hz,
Lamp detail	LED 18W 4000K 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2011
Standard materials	Body – high impact polycarbonate Diffuser – high quality opaque polycarbonate
Weight	1.5 kg (mains), 2.4 kg (emergency)
Warranty	3 year product warranty

Dimensions



Circular LED bulkhead light engines and efficient control gear provide class leading performance

The lumens are protected by a polycarbonate housing and opaque diffuser delivering a uniform lit appearance. 2 hour maintained lithium battery emergency version available.

With matching mains, emergency and with optional motion sensor, VersaLite Circular bulkhead delivers choice and flexibility to suit a wide range of applications

- Fixture level L70 50,000hrs
- Fast fix mounting clips for rapid installation
- Uniform lit appearance, no shadowing
- 4000° Kelvin colour temperature, CRI 80, IP65
- 1800 lumen output (42W)
- Impact and heat resistant opaque polycarbonate diffuser
- Lumen output to match and exceed traditional fluorescent technology with reduced energy consumption
- Options:
Computer monitored CGLine+
Computer monitored CEAG central battery

Design features

- IP65 dust and water protection to suit outdoor area
- High quality control gear and LED
- Low power consumption
- Simple to install
- Optional microwave sensor control gear

Application

- Indoor/ outdoor
- Stair well
- Apartments
- Carpark

Ordering information

VLC1800	VersaLite Circular IP65, 1800lm 4000K LED, mains only
VLC1800S	VersaLite Circular IP65, 1800lm 4000K LED, mains only, motion sensor
VLC1800EM	VersaLite Circular IP65, 1800lm 4000K LED, emergency
VLC1800SEM	VersaLite Circular IP65, 1800lm 4000K LED, emergency, motion sensor
VLC1800LF-CGL	VersaLite Circular IP65, 1800lm 4000K LED, emergency, CGLine+ monitored LiFePO4
VLC1800SLF-CGL	VersaLite Circular IP65, 1800lm 4000K LED, emergency, motion sensor, CGLine+ monitored LiFePO4



Accessories

Emergency test switch

Eaton's emergency light test kit



It is a mandatory legislative requirement that any building or structure that has an emergency evacuation lighting system installed be regularly inspected and maintained in accordance with the requirements of AS/NZS 2293.2

This standard sets out the periodic inspection and maintenance procedures which are necessary to ensure that the emergency evacuation lighting system will be in a state of readiness for operation at all times and this maintenance & inspection work shall only be carried out by persons with suitable qualifications and experience.

Unit discharge tests shall be carried out at six monthly intervals by simulating a mains failure. All luminaires and exit signs shall remain illuminated for the full duration of this discharge test. Any luminaire with a battery that cannot sustain illumination for the full duration of the test shall have this battery replaced and when fully charged retested.

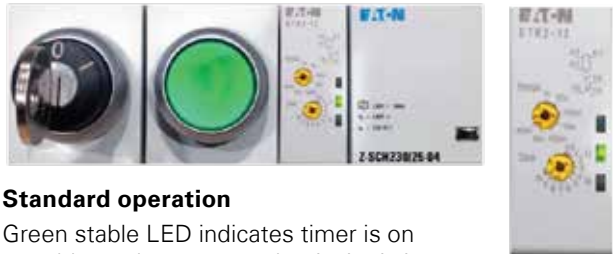
- Manual testing of single point systems
- Enclosed option available
- DIN rail mount option available
- Manual or automatic reset
- Simulate supply failure to emergency luminaires in accordance with AS/NZS2293.2
- High quality European switchgear components

Technical data



	Z-EMER-E	Z-EMER-DIN
Description	Emergency lighting test switch (enclosed)	Emergency lighting test switch (DIN mount)
Operation	Key switch operation	Rotary switch operation
Dimensions	160 x 160 x 90 (mm)	140 x 90 x 90 (mm)
Operating voltage	240V AC +/- 5%, 50Hz	
Cable entry	4mm ²	
Contactors	4 pole, 25A NC	
Time delay	Fully programmable	
Operating temperature	5° to 50°C	
IP rating	IP20	
Warranty	1 year product warranty	

Operation and visual indication



Standard operation

Green stable LED indicates timer is on stand-by and emergency luminaire is in charging mode.



Emergency lighting test operation

Green flashing LED indicates emergency lighting is under test.

Emergency inverter

Conkit LED



- For LED modules with a forward voltage of 3 – 180V
- Selectable operating time (jumper)
- Output power limitation and SELV classified
- Polarity reversal protection from battery connector
- Automatic shutdown of output if LED load is out of range
- Low profile casing (35x23x185 mm)
- Emergency lighting LED Driver
 - Low Voltage for 3-33Vdc LED lamps. Output open voltage 40Vdc (SELV)
 - Medium Voltage for 20-55Vdc LED lamps. Output open voltage 60Vdc (SELV)
 - High Voltage for 40-180Vdc LED lamps. Output open voltage 200Vdc
- Low profile casing, for mains luminaire installation (build-in)
- Non maintained operation with rest mode
- Constant voltage output mode selectable by jumper:
- 4-pole technology: LED lamp change over from mains LED driver through a dedicated relay offering full isolation from mains driver
- Automatic shutdown of emergency operation if no LED lamp is connected on the output terminals

Technical data

Operation mode	Non maintained
Mains input voltage	240 V AC
Mains frequency	50/60Hz
Duration	1 or 3h, selectable by jumper
(t_a) Permissible ambient temperature	5..40°C
(t_c) Case temperature max	Converter: 70°C / battery: 70°C
Terminals	Mains (L/N unswitched) (L1 switched in/out) up to 1,5 mm ² screwless pushwire & multicore
IP rating	IP20
Warranty	1 year product warranty

Conversion Kit LED is designed for use in emergency luminaires in conjunction with LED modules and LED control gear from all manufacturers. The Conversion Kit LED range is certified to conform with IEC61347-2-7 standard which makes the converted luminaires easily achieve compliance to IEC60598-2-22 standard.

The product range is designed in a very small 35x23x185 mm housing, making it ideal for use in compact LED luminaires where space is at a premium. All models available are programmable by a jumper to an emergency operation of either 1 hour or 3 hours duration.

It is compatible with all dimmable and non-dimmable constant current mains LED Drivers for linear / area as well as down light applications and can be used with normal fixed output or dimming LED control gear from 2,5W up to 4,1W emergency output power

Ordering information

O-LVLD-4AA-TB	Led Kit Low Voltage Driver 3-33Vdc (12Vdc) / 4AA, with Test button LED, 35 cm
O-LVLD-3CS-TB	Led Kit Low Voltage Driver 3-33Vdc (12Vdc) / 3CS, with Test button LED, 35 cm
O-LVLD-4D-TB	Led Kit Low Voltage, High Power Driver 3-33Vdc / 4D, 2h with Test button LED, 35cm
O-MVLD-4AA-TB	Led Kit Medium Voltage Driver 20-55Vdc (24Vdc) / 4AA, with Test button LED, 35 cm
O-MVLD-4CS-TB	Led Kit Medium Voltage Driver 20-55Vdc (24Vdc) / 4CS, with Test button LED, 35 cm
O-MVLD-4D-TB	Led Kit Medium Voltage, High Power Driver 20-55Vdc / 4D, 2h with Test button LED, 35cm
O-HVLD-4AA-TB	Led Kit High Voltage Driver 40-180Vdc (24Vdc) / 4AA, with Test button LED, 35 cm
O-HVLD-5CS-TB	Led Kit High Voltage Driver 40-180Vdc (24Vdc) / 5CS, with Test button LED, 35 cm
O-HVLD-4D-TB	Led Kit High Voltage, High Power Driver 40-180Vdc / 4D, 2h with Test button LED, 35cm

Emergency inverter

T5 / T8 Invertor Kits



The latest range of Convertalite conversion kits deliver optimum performance for a diverse choice of fluorescent lamp types and wattages. Convertalite packs simplify selection for T5 & T8 lamps, the same module being suitable for high frequency circuits.

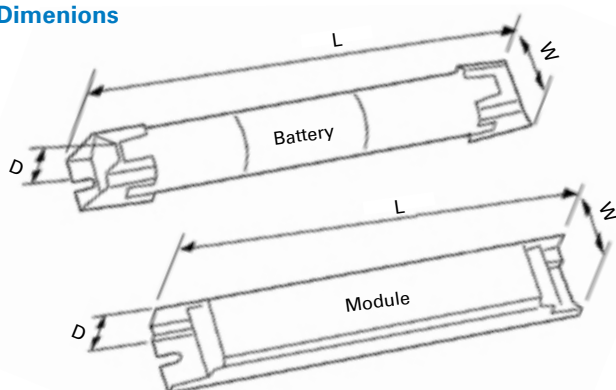
Each module has 4 pole output switching plus an additional relay pole to isolate the switched live in emergency mode. Consequently, lock out of the ballast is prevented when it returns to mains mode. Low profile modules combined with unique chamfered batteries and end caps, ease integration into shallow luminaires.

- Fast and easy conversion of fluorescent fittings to emergency luminaires
- Compatible with electronic ballasts
- Covers a diverse choice of lamps
- High temperature Ni-Cad batteries
- AS2293 Compliant
- Narrow low profile inverter case
- 5 pole relay to prevent electronic ballast lockout
- EMC compliant

Technical data

Operation mode	Maintained & non maintained
Operation voltage	240V, 50Hz
Lamp detail	Kits to suit 14, 21, 28, 35, 49 & 54W T5 lamps and 18, 36 & 58W T8 fluorescent lamps 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2006 Module case - steel, white finish
Standard material	Battery end caps - polycarbonate Batteries - Ni-Cad
Warranty	1 year product warranty

Dimensions



Dimension	L (mm)	W (mm)	D (mm)	Fixing Centres
QX/HC/HD/HE	216	38	28.5	205
SMCB110HF	216	40	40	205
2 cell battery pack & caps	160	33	33	150
3 cell battery pack & caps	220	33	33	210
4 cell battery pack & caps	280	33	33	270
5 cell battery pack & caps	340	33	33	330

Ordering information

Ordering information (DC inverter for 110V Central Battery System)	
SMCB110HF	110VDC Kits to suit 14, 21, 28, 35, 49 & 54W T5 lamps and 18, 36 & 58W T8 fluorescent lamps
Ordering information (T8 Power Packs to Suit 18,36 & 58W)	
ZBQX2H	18W inverter only (3 cell)
ZCQX2H	18W, 36W & 58W inverter only (4 cell)
ZBQX-KIT	18W inverter & 3 cell (stick) battery pack
ZCQX-KIT	18, 36 & 58W inverter, 4 cell (stick) battery pack
ZCQX-KIT22	18, 36 & 58W inverter, 4 cell (split pack) battery pack
Ordering information (T5 Power Packs 14, 21, 28, 35, 49 & 54W)	
HC1AU	14-21 watt, T5 inverter & 4 cell (stick) battery pack
ZHD1-KIT	26-42W PLT inverter & 5 cell (stick) battery Pack
ZHD2	28-35 watt, inverter only (5 cell)
ZHD2-KIT	28-35 watt, T5 inverter & 5 cell (stick) battery pack
ZHE1-KIT	49-54 watt, T5, inverter only & 6 cells (split pack) battery pack

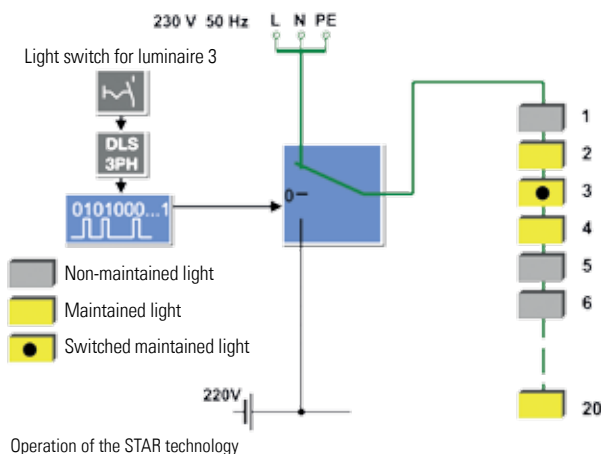


Central battery systems

Central battery system STAR technology

STAR TECHNOLOGY

S T A R
Switching Technology Advanced Revision



Switch to safety!

The continuing development of the CEWA GUARD monitoring system has led to the creation of the

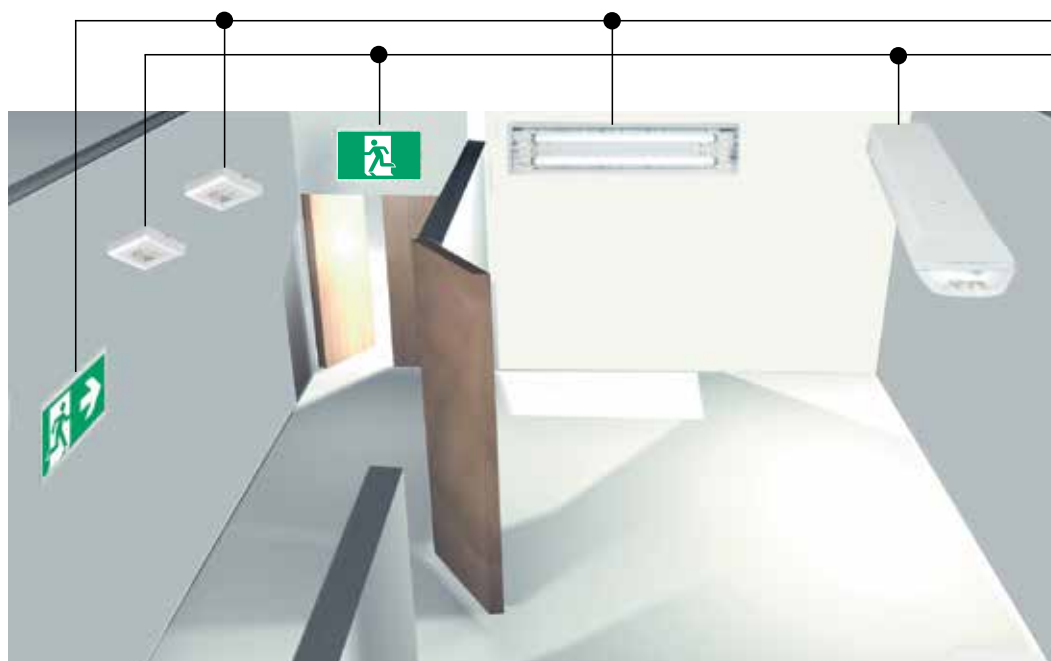
Switching | Technology | Advanced | Revision, or **STAR** for short.

This CG-STAR-technology allows different switching modes to be implemented in one and the same circuit, and the switching mode of each individual luminaire can be re-programmed at any time. As a result, this technology offers not just the proven CEWA Guard safety when it comes to operating a safety lighting system, it also gives planners the confidence and flexibility of knowing that the system can respond and adapt at any time to any changes that are made to a building and its use.

Your Advantages:

The number of outgoing circuits needed can be sharply reduced, since maintained, non-maintained and switch maintained lighting can be realised in one common circuit. This allows the use of shorter cable runs, reduces installation costs and minimises the effects of burning materials. Any mode of operation can be assigned at a later date – without modification of the lighting installation. This enables simple project planning without having to take all possible types of operation into account.

As with CEWA GUARD technology, the patented STAR technology requires no additional data cable to the luminaires.



Installation with
STAR-Technology:

All types of switching modes

- Only two outgoing circuits for all types of switching modes
- Maintained light, non-maintained light and switched maintained light are possible in one common circuit
- Later circuit modifications do not pose any problems

Central battery system

ZB-S with STAR technology



Safe operation under the most extreme environmental conditions

As well as providing a dependable supply of power (230V AC/220 V DC) to safety and exit luminaires, the central battery system ZB-S tests itself automatically and individually monitors each CG-S luminaire (up to 20 per circuit), and it does all this using the power supply cable alone.

The new type of STAR technology allows the switching mode of every connected CG-S luminaire to be freely programmed within a 50 or 60 Hz supply network using the central battery system's controller. This means that maintained light, switched maintained light and non-maintained light modes can be combined in one and the same circuit – there is no need for separate data cables!

The control module with its nonvolatile program memory and large graphic display monitors and controls the central battery system. It automatically tests all functions of the devices and emergency luminaires connected to it, and reports any faults that occur.

An integral search function automatically detects all system-dependent luminaires and modules that are assigned an address during installation. A central monitoring device can be connected via an interface.

- Shortened inspection effort due to CEWA GUARD technology; automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures with STAR-technology; freely programmable mixed operation of the switching modes per luminaire in one circuit
- Less installation costs as no data line is required to the luminaires
- Automatic luminaire search function
- Plain text display on the control module down to the last luminaire
- Flexible data storage for test log and system configuration with memory card
- Modular charging technology in the range of 5.5 to 1,000 Ah
- Energy-saving and increased service life via alternating switching of the charging modules and optimised efficiency
- Compatible with CGVision software package

Central battery system

LP-STAR



Simple installation and reliable power supply

The LP-STAR System supplies reliable power to the escape luminaires and exit sign luminaires (230V AC/220 V DC)

The system performs an automatic self-check and monitors all CG-S luminaires connected (up to 20 luminaires per circuit) simply through a feed line. The circuit type of each connected CG-S luminaire can be programmed freely in the 50 Hz or 60 Hz supply network with the control module based on the STAR technology. This means that the same power circuit is used for mixed operation including maintained light, switched maintained light and non-maintained light, all this without an additional data cable!

The control module including a non-volatile program memory as well as a big graphical display that monitors and controls the LP-STAR device and checks all functions of the connected emergency luminaires and reports the operating states of the entire system. The integrated search function detects all luminaires addressed during installation automatically. A central monitoring system can be connected using the optional bus interface.

- Standard cabinet is IP20, optional IP54
- Simple operation and commissioning based on a smart programming and operating plan
- 230V AC / 220V DC supply voltage selectable to power the escape luminaires and exit sign luminaires to comply with architectural issues
- Standard integrated phase monitor for monitoring general power supply conditions
- Additional phase monitor input including line monitoring for an external phase monitor
- Standard eight digital 230 V input channels for switching each luminaire separately.
- Optional - CG-S interface for connecting to the CG-S bus for CGVision or master/slave operation for connecting several LP-STAR devices
- Shorter inspection time using the CEWA GUARD technology, automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation costs due to the STAR technology
- Automatic luminaire search function
- Plain text display at the control module for all luminaires
- Flexible data memory for the test log and device configuration using the Secure Digital card

GuideLed CG-S - Ceiling mounting



- Escape sign panel luminaire in LED technology for ceiling installation
- Slender design with pictogram width of only 12 mm
- Very good perceptibility on account of high luminance of the white contrasting colour > 500 cd/m² in and high uniformity L_{min}/L_{max} > 0.8
- Reduced battery costs on account of especially low power consumption
- Low operating costs on account of low effective power of 4.1 W only (2.6 W one-sided, radiating)
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)

Technical data

Viewing distance	24 m
Luminous flux Φ_E/Φ_N at the end of rated operating time	100 %
Housing material	PC, PMMA
Housing colour	Light grey RAL 7035
Type of mounting	Ceiling, suspended, recessed installation
Connection terminal	Clamp terminal 2.5 mm ² reverse-polarity protected
Connection voltage	220 - 240 V AC, 50/60 Hz 176 V - 275 V DC
Current consumption - battery operation (220 V)	one-sided 11 mA – two-sided 17 mA
Power consumption mains operation (apparent power/effective power)	one-sided 5.0 VA / 2.6 W two-sided 7.1 VA / 4.1 W
Permissible ambient temperature	-20 °C to +40 °C
Light source	LED batten
Warranty	5 years

Ordering information

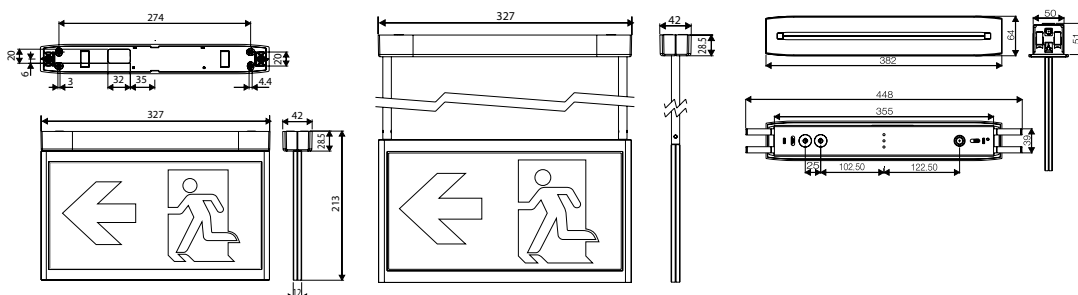
40071353620	Ceiling installation set for GuideLed CG-S with canopy incl. LED supply and CG-S technology (20 addresses) 0.79 kg
40071353621	Ceiling installation set for GuideLed CG-S with canopy and tube suspension 0.5 m, incl. LED supply and CG-S technology (20 addresses) 0.94kg
40071353622	Ceiling installation set for GuideLed CG-S with canopy and tube suspension 1.5 m, incl. LED supply and CG-S technology (20 addresses) 0.99 kg
40071353623	Ceiling installation set for GuideLed CG-S incl. recessed installation housing incl. LED supply and CG-S technology (20 addresses) 1.22kg
40071353646	Chain fastening for 11021 CG-S
40071352893	Concrete installation box for GuideLed 11024 CG-S

LED pictograms must ordered separate

LED pictogram PL/PR, for GuideLed CG-S, 24 m	
LED pictogram PU/PU, for GuideLed CG-S, 24 m	
LED pictogram PL/BL, for GuideLed CG-S, 24 m	
LED pictogram PR/BL, for GuideLed CG-S, 24 m	
LED pictogram PU/BL, for GuideLed CG-S, 24 m	

Dimensions

Dimensions in mm



CrystalWay CG-S - Exit Sign Luminaires






- Exclusive escape sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity L_{min}/L_{max} > 0.8
- Reduced battery costs on account of especially low power consumption
- Low operating costs on account of low effective power of 3.7 W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)
- Shortened inspection effort due to CEWA GUARD Technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR Technology

Technical data

Viewing distance	24 m
Luminous flux Φ_E/Φ_{Nenn} at end of rated operating time	100 %
Housing material	Polycarbonat
Housing colour	RAL 9003
Weight	0.7 kg
Type of mounting	Wall and ceiling mounting
Connection terminals	2 x 3 x 2.5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz 176 - 275 V DC
Power consumption mains operation (apparent power/effective power)	6.5 VA / 3.7 W
Current consumption - battery operation (220 V)	15 mA
Permissible ambient temperature	-20 °C to +40 °C
Light source	LED strip
Warranty	5 years

Ordering information

40071354593	CrystalWay CG-S	
LUM10560	Wire suspension kit	
LUM10562	Recessed base, for ceiling mounting	
LUM10564	Recessed base with cover, for ceiling mounting	
LUM10566	Concrete box (suitable for recessed base with cover)	
LUM11145	Pictogram - Centre	
LUM11146	Pictogram - Left	
LUM11147	Pictogram - Right	

Wire suspension kit

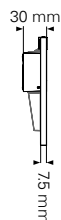
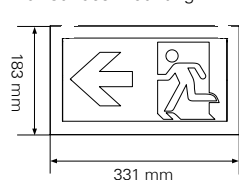


Recessed base with cover

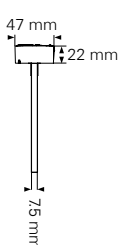
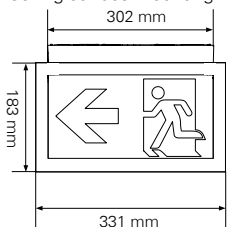


Dimensions

Wall-surface mounting



Ceiling-surface mounting



LED LT CG-S






LED LT CG-S is an LED escape sign luminaire with high protection class (IP65) and high viewing distance of 60m, suitable for operation in food preparation facilities (dry, non-humid and without dust, and for use outside by using a screw gland with a ventilation membrane.

- Specialized electronics with components for reliable operation down to -40 °C
- Silk-screened pictogram on a robust panel (polycarbonate)
- Excellent perceptibility on account of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard DIN 4844-1 and high uniformity L_{min}/L_{max} > 0.8
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
Service life is increased at -20 °C ambient temperature
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation cost by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

Technical data

Viewing distance	40m
Luminous flux Φ_E/Φ_N at the end of rated operating time	100 %
Housing material	Enclosure: Coated sheet metal; Panel: PC
Housing colour	White, similar RAL 9010
Weight	5.5 kg
Type of mounting	Wall mounting
Connection terminals	2 x 3 x 2.5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz 176 - 275 V DC
Current consumption - battery operation (220 V)	50 mA
Power consumption mains operation (apparent power / effective power)	11.0 VA / 10.5 W
Power Factor	0.9
Permissible ambient temperature	-40 °C to +40 °C
Light source	8 x 1 W High Power LED
Warranty	5 years

Ordering information

40071351579	Safety luminaire for low temperature (to -40 °C) applications, single-sided, incl. LED supply and CG-S technology (20 addresses), without pictogram
	Cover with silkscreened pictogram centre 
	Cover with silkscreened pictogram left 
	Cover with silkscreened pictogram right 
40071350005	Cable gland with ventilation membrane for outdoor areas

Atlantic LED LT CG-S



Atlantic ED LT CG-S is an LED safety luminaire with high protection class (IP65) for indoor and outdoor use, with a robust construction from aluminium diecast and high impact resistant cover made of polycarbonate.

- Specialized electronics with components for reliable operation down to -40 °C
- Luminaire with limited surface temperatures for use in operating areas with fire hazard
- Acc. HACCP suitable for use in food processing industry
- Numerous knock-outs for cable entries
- High spacing by double optics technology and highly efficient HighPower LEDs
- Up to 24 m from luminaire to luminaire with optics for escape route illumination
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours) Service life is increased at -20°C ambient temperature
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation cost by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

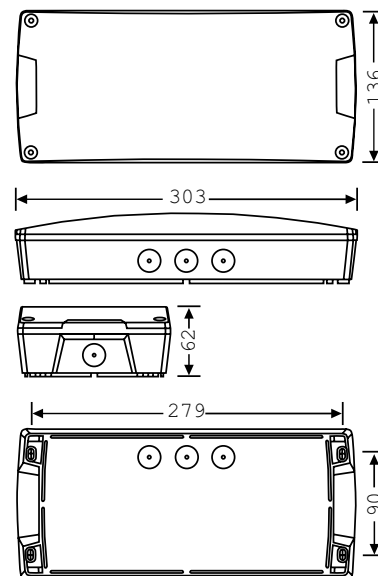
Technical data

Luminous flux	Atlantic LED R LT 225 lm Atlantic LED O LT 220 lm
Luminous flux Φ_E/Φ_N at the end of rated operating time	100 %
Housing material	Enclosure: Aluminium diecast Cover: Polycarbonate (850 °C glow wire resistant)
Housing colour	Grey
Weight	Atlantic LED R LT CG-S 1.4 kg Atlantic LED O LT CG-S 1.4 kg
Type of mounting	Ceiling mounting
Connection terminals	3 x 2.5 mm ²
Connection voltage	220 - 240 V, 50/60 Hz 176 - 275 V DC
Current consumption - battery operation (220 V)	20.5 mA
Power consumption mains operation (apparent power / effective power)	6.1 VA / 4.65 W
Power Factor	0.77
Permissible ambient temperature	-40 °C to +40 °C
Light source	2 x 1.5 W High Power LED
Warranty	5 years

Ordering information

40071354866	Low temperature safety luminaire with asymmetric optics for escape route illumination, incl. LED supply and CG-S technology (20 addresses), incl. M20 cable gland
40071354867	Low temperature safety luminaire with symmetric optics for anti-panic / open area illumination, incl. LED supply and CG-S technology (20 addresses), incl. M20 cable gland

Dimensions



i-P65+ CG-S Aluminium enclosure



The i-P65+ CG-S aluminium enclosure is an LED safety luminaire with high ingress protection class (IP65) for both indoor and outdoor use. This enclosure robust design (IK08) is made from aluminium die-cast and impact-resistant polycarbonate. The high lumen output ensures suitability for increased illumination levels such as min 15 lx for high risk task areas or applications with 10.8 lx acc. NFPA 101

- Wide-beam symmetrical lens with a near-square light distribution, i-P65+ L variant is suitable for illuminating large areas (Spacing in both direction up to 22 m for E= 1lx and up to 31 m for E = 0.5 lx) and mounting heights up to 18 m
- Narrow-beam reflector technology, the i-P65+ H variant is especially suitable for escape route lighting with high spacing up to 30 m and mounting heights up to 26 m
- With provisions for M20 cable entries on enclosure sides (3 x lateral and 1 x at each end side) and BESA entry on rear
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 60,000 h)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring for up to 20 luminaires per circuit
- Reduced installation cost through STAR Technology
- Freely programmable mixed operation, allowing the switching of luminaire modes within one circuit

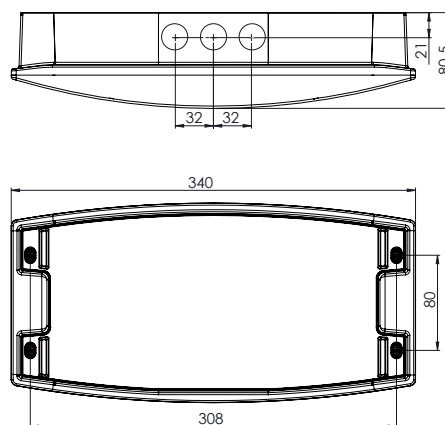
Technical data

Luminous flux Φ_N	i-P65+ L: 770 lm i-P65+ H: 590 lm
Luminous flux Φ_E/Φ_N at end of rated operating time	100 %
Housing material	Aluminium, Polycarbonat
Housing colour	Weiß
Weight	1,85 kg
Type of mounting	Ceiling mounting
Terminals	3 x 2 x 2,5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz 176 - 275 V DC
Current consumption - battery operation	40 mA
Power consumption mains operation (apparent power / effective power)	15.6 VA / 9.3 W
Permissible ambient temperature	-20°C to +40°C
Light source	COB LED 6.4 W
Warranty	5 years

Ordering information

IP65PLACGS	Safety luminaire with wide-beam, symmetrical lenses for anti-panic/open area illumination, incl. LED supply with CG-S technology (20 addresses)
IP65PHACGS	Safety luminaire with narrow-beam lenses for emergency lighting, incl. LED supply with CG-S technology (20 addresses)
IP65PSUSPB	Mounting bracket for chain suspension or for mounting at trunking systems or similar

Dimensions



i-P65+ CG-S Polycarbonate enclosure



The i-P65+ CG-S polycarbonate enclosure is an LED safety luminaire with high ingress protection class (IP65) for both indoor and outdoor use. It's robust design (IK08) is made from impact-resistant polycarbonate, with provisions for M20 cable entries on enclosure sides (3 x lateral and 1 x at each end side) and BESA entry on rear

- With wide-beam symmetrical lens with a near-square light distribution, i-P65+ L variant is suitable for illuminating large areas (Spacing in both direction up to 22 m for E= 1lx and up to 31 m for E = 0.5 lx) and mounting heights up to 18 m
- With narrow-beam reflector technology, the i-P65+ H variant is especially suitable for escape route lighting with high spacing up to 30 m and mounting heights up to 26 m
- High lumen output ensures suitability for increased illumination levels such as min 15 lx for high risk task areas or applications with 10.8 lx acc. NFPA 101
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 60,000 h)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring for up to 20 luminaires per circuit
- Reduced installation cost through STAR Technology
- Freely programmable mixed operation, allowing the switching of luminaire modes within one circuit

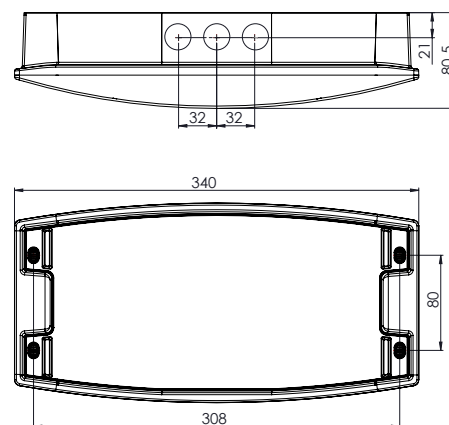
Technical data

Luminous flux Φ_N	i-P65+ L: 770 lm i-P65+ H: 590 lm
Luminous flux Φ_E/Φ_N at end of rated operating time	100%
Housing material	Polycarbonate
Housing colour	White
Weight	1,75 kg
Type of mounting	Ceiling mounting
Terminals	3 x 2 x 2,5 mm ²
Connection voltage	220 - 240 V AC, 50/60 Hz 176 - 275 V DC
Current consumption - battery operation	40 mA
Power consumption mains operation (apparent power / effective power)	15.6 VA / 9.3 W
Permissible ambient temperature	-20°C to +30°C
Light source	COB LED 6.4 W
Warranty	5 years

Ordering information

IP65PLPCGS	Safety luminaire with wide-beam, symmetrical lenses for anti-panic/open area illumination, incl. LED supply with CG-S technology (20 addresses)
IP65PHPCGS	Safety luminaire with narrow-beam lenses for emergency lighting, incl. LED supply with CG-S technology (20 addresses)
IP65PSUSPB	Mounting bracket for chain suspension or for mounting at trunking systems or similar

Dimensions



UFO LED CG-S



Installation notes

Suitable for flush mounting into suspended ceilings.

Spinning assembly retained by steel clips.

Plug and go assembly.

Surface mount onto ceiling and walls

Knock-outs provided on housing for conduit entry

Application

- Stairwells and other escape route areas
- Offices
- Restaurants
- Hospitals
- Shopping centres

Technical data

Operation mode	Non maintained
Operation voltage	240V, 50Hz
Lamp detail	3W LED 2 hour emergency duration
Certification	AS2293:2005, CISPR15:2011
Standard materials	Housing - PC + ABS, choice of black or white finish Spinning assembly - PC + ABS
Weight	0.6kg
Warranty	3 year product warranty

recessed and surface mount UFO LEDs are a stylish, modern and easy to install non maintained luminaire suitable for both new and retrofit applications.

LED technology offers new possibilities for emergency lighting, allowing luminaires to be more discreet, use less energy, have a lower environmental impact and require dramatically less maintenance than before.

- Non-maintained
- Recessed or Surface Mount
- LED
- Superior light output
- Versatile construction
- Theatre option
- Choice of spinning assembly sizes
- Ideal for both new & retrofit applications

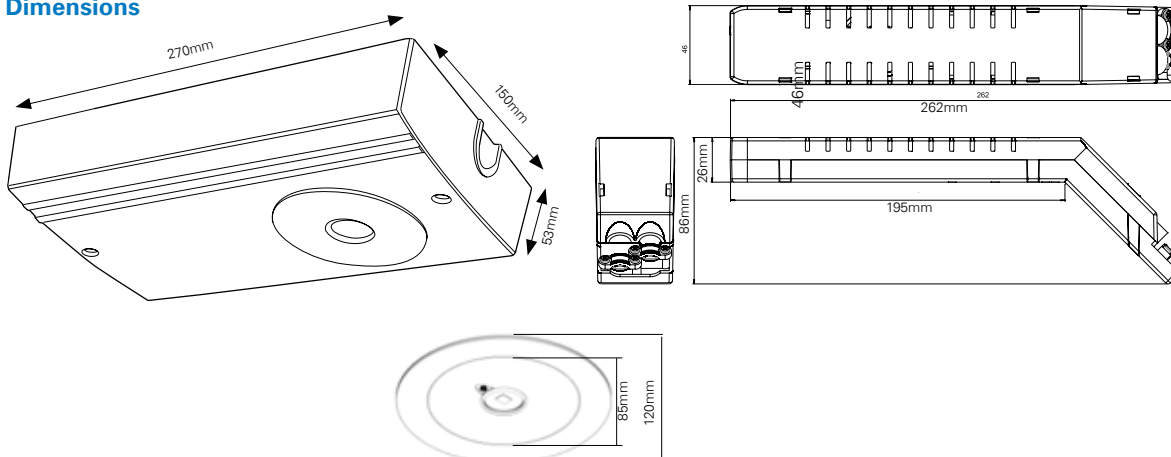
Design features

- Superior light output - C0, C90: D40
- Energy efficiency and longer life - 50,000 hours
- 85mm spinning for new applications (70mm cut out)
- Adaptor plate for retrofit applications (up to 110mm cut out)
- Spring fixing allows installation on ceilings from 1mm to 20mm
- 3x20mm conduit entry (surface mount version)

Ordering information

UFO-LED-CG	Recessed mount non maintained emergency (complete fitting, white finish)
UFO-LED-B-CG	3W LED black Theatre mask non-maintained emergency
UFO-LED-SM-CG	Surface mount, non-maintained, emergency
UFO-LED-SM-B-CG	Theatre surface mount, non-maintained, emergency

Dimensions



Centrally powered modules

A portfolio of monitoring modules, electronic ballasts with integrated monitoring, and LED drivers with integrated monitoring enables general lighting luminaires to be integrated into the emergency lighting system.



With CEAG monitoring modules, electronic ballasts or LED supply modules, luminaires for general lighting systems from any manufacturer can be connected to group and central batteries and thus integrated into the building emergency lighting concept. The modules matched to the requirements of central and group battery installations make it possible to monitor and control up to 20 luminaires in only one circuit. Using the ballasts, luminaires on one circuit can be operated in different switching modes such as maintained light, non-maintained light or switched maintained light. Here in the case of the N-EVGs (electronic ballasts), the emergency lighting level of each lamp can be individually set for battery operation from 30 to 100 % of the nominal luminous flux. Addressing and adjustment of the luminous flux is performed, as usual, via easy to access coding switches.

For further information on the full range of modules and drives, please contact Eaton on 1300 332 866

Spare parts

Part No.	Description
BEN3AU, BEN3WAU	
PCB583GMN	Battery charger
BAT12SLA7	SLA battery 12V, 7Ah
BLMAU	
EPA601P	Charger / inverter
BAT3SLC	Battery pack (3 D-cell 4.0Ah)
CEWP118, CEWP218, CEWP136 & CEWP236	
ZBQX2H	18W Charger / inverter
ZCQX2H	36W Charger / inverter
BAT3SLC	Battery pack (3 D-cell 4.0Ah)
BAT4SLC	Battery pack (4 D-cell 4.0Ah)
BAT4SLC2	Battery pack (4 D-cell split pack 4.0Ah)
ZBQX-KIT	18W Charger / inverter and Battery pack (3 D-cell 4.0Ah)
ZCQX-KIT	36W Charger / inverter and Battery pack (4 D-cell 4.0Ah)
ZCQX-KIT22	36W Charger / inverter and Battery pack (4 D-cell split pack 4.0Ah)
DRG28M & DRG28NM	
C1192	Charger / inverter / ballast
BAT4SLC2	Battery pack (4 D-cell split pack 4.0Ah)
EBVRWO28AU (Vianza)	
C1192	Charger / inverter / ballast
BAT4SLC2	Battery pack (4 D-cell split pack 4.0Ah)
EXM-LED-CM & EXM-LED-WM (Exlite LED)	
B5-0008	Battery pack
KLED & KLM-LED-P (Kwiklite)	
EPA605	Charger / inverter
EPA606	LED strip
M4AA15H-BC7	Battery pack to suit KLED
BAT4SLSC	Battery pack to suit KLM-LED-P
LEX-218S (Jumbo)	
ZBQX2H	8W charger / inverter
BAT3SLC	Battery pack
NSLEDAU (Safe Edge)	
EPA605	Charger / inverter
EPA606	LED strip
BAT4SLSC	Battery pack
RELM-LED (Gloline)	
EPA605	Charger / inverter
EPA606	LED strip
BAT4SLSC	Battery pack
UFO SERIES	
BAT5SP14H	Battery pack to suit UFO-SP and UFO-SM-MK2 (1x10W halogen)
M5AA15H-GC7	Battery pack to suit UFO-LED and UFO-LED-SM (3W LED)
VSMAU (Vistral)	
EPA601P	Charger / inverter
BAT2SP3	Battery pack
UXM-LED	
EPA605	Charger / inverter
EPA606	LED strip
BAT4SPSC9	Battery pack
ZCC4	
BAT6SLA12	SLA battery 6V, 12Ah

Classifications

Item No.	C0	C90	C180	Luminance	Photometric	Thermal
BEN3AU	NA	NA			LL15357A	LSA0536105T
BLMAU	D25	C25	NA		LL16657	LL1315003T
CEWP118	D32	C25	NA		LL16377	LL1307004T
CEWP128	D32	C25	NA		LL17719	LL1414701T
CEWP136	D40	C32	NA		LL16421	LL13-081-03T
CEWP218	D20	C25	D25		LL16376	LL1307005T
CEWP228	D32	C40	D40		LL17720	LL1414702T
CEWP236	D32	C40	D40		LL16484	LL1309803T
DRG28M	D25	D25	D25		LSA10398	LSA0622801T
EBVRWO28AU	D25	D25	D25		LL10709	LL0633902T
ETBT1224EM	D40	D12.5			170209PH	170208TH
ETBT1248EM	D32	D16			170213PH	170212TH
ETBT624EM	D32	D16			170216PH	170215TH
EXM-LED-CM	D6.3	D6.3	NA	LL17637	LL17649	LL1412206T
EXM-LED-WM	E2.5	E2.5	C2	LL17636	LL17648B	LL1412206T
EXM-LED-WM (ceiling mount no pictograph)	D10	D8	NA		LL17688	LL1412206T
GEMJAU	N/A	N/A	N/A		215254A	215253
GUIDELED				TBA		TBA
i-P65+					TBA	TBA
KL8M	C8	E6.3	NA		LL14881-R01	LL1104001T-R01
KLED	D5	E12.5	NA		LL14882	LL1104003T
KLEDE	D4	E2.5	N/A	LL19143	LL19144	LL1602505T
LEX-LED-40M	D16	E12.5		LL19224	LL19227	LL1602506T
MPM	B8	B8	NA		LL12257	LL08254603
NSLEDAU	E2.5	B25		LL13933	LL13934	LL1017602T
RELM-LED	D2.5	E10		LL13927, LL13928	LL13931	LL1017605T
UFO-LED and UFO-LED-SM	D40	D40	NA		LL16725-R01	LL1318501T
UFO-SM-MK2	D16	D16	NA		LL12662	LL0907204T
UFO-SP	D16	D16	NA		LL12662	LAA001801T
UXM-LED (EXIT)	NA	NA		LL13616	NA	LL1010604T
UXM-LED (Pictograph exit)	NA	NA		LL13614	NA	LL1010604T
VELOS	D5	E3.2	N/A	LL19948	LL19949	LL1701103T-R01
VL124600					TBA	TBA
VL62100					TBA	TBA
VLC1800					TBA	TBA
VSMAU	E16	C16	NA		LL16372	LL13-070-01T
WLMAU (Pictograph exit)	D12	C20		LSA10411		LSA0621304T
ZCC4	NA	NA	NA		LL11247	LL0719005T

Spacing tables

A SERIES

Luminaire spacing

	A1	A1.25	A1.6	A2	A2.5	A3.2	A4	A5	A6.3	A8	A10	A12.5	A16	A20	A25	A32	A40	A50	A63
2.1	2.2	2.5	2.8	3.1	3.4	3.7	3.9	4.2	4.5	4.8	5.0	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4
2.4	2.0	2.4	2.8	3.1	3.5	3.8	4.1	4.4	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.4	7.7	8.1
2.7	1.7	2.2	2.7	3.1	3.5	3.9	4.3	4.6	5.0	5.4	5.7	6.0	6.4	6.8	7.1	7.5	7.9	8.3	8.7
3.0	1.0	1.9	2.5	3.0	3.5	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.2
3.3		1.3	2.2	2.9	3.4	4.0	4.4	4.9	5.3	5.8	6.2	6.6	7.1	7.5	7.9	8.4	8.9	9.3	9.8
3.6			1.8	2.6	3.3	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.8	8.3	8.8	9.3	9.8	10.3
4.0				2.1	3.0	3.7	4.4	5.0	5.5	6.1	6.6	7.2	7.7	8.2	8.7	9.3	9.8	10.3	10.9
4.5					2.2	3.4	4.2	4.9	5.6	6.2	6.8	7.4	8.1	8.7	9.2	9.9	10.4	11.0	11.6
5.0						2.7	3.8	4.7	5.5	6.3	7.0	7.6	8.4	9.0	9.6	10.4	11.0	11.6	12.3
6.0							2.1	3.8	5.0	6.1	7.0	7.8	8.7	9.5	10.3	11.2	11.9	12.7	13.5
7.0								1.1	3.8	5.4	6.7	7.8	8.9	9.8	10.8	11.8	12.7	13.6	14.5
8.0										4.1	5.9	7.3	8.8	9.9	11.0	12.2	13.3	14.3	15.4
9.0											4.5	6.5	8.3	9.8	11.1	12.5	13.7	14.9	16.1
10												5.1	7.6	9.4	10.9	12.6	13.9	15.3	16.6
15															5.2	9.5	12.7	15.2	17.5
20																		10.3	14.9

B SERIES

Luminaire spacing

	B1	1.25	B1.6	B2	B2.5	B3.2	B4	B5	B6.3	B8	B10	12.5	B16	B20	B25	B32	B40	B50	B63
2.1	2.4	2.7	3.1	3.4	3.7	4.1	4.4	4.7	5.0	5.4	5.7	6.0	6.4	6.7	7.1	7.5	7.8	8.2	8.6
2.4	2.2	2.6	3.1	3.4	3.8	4.2	4.6	4.9	5.3	5.7	6.1	6.4	6.8	7.2	7.6	8.1	8.5	8.9	9.3
2.7	1.8	2.4	3.0	3.4	3.8	4.3	4.7	5.1	5.5	6.0	6.4	6.8	7.2	7.7	8.1	8.6	9.0	9.5	10.0
3.0	1.1	2.0	2.8	3.3	3.8	4.4	4.8	5.3	5.7	6.2	6.7	7.1	7.6	8.1	8.5	9.1	9.6	10.1	10.6
3.3		1.4	2.4	3.1	3.7	4.3	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	9.0	9.5	10.1	10.6	11.2
3.6			1.9	2.8	3.6	4.3	4.9	5.4	6.0	6.6	7.1	7.6	8.2	8.8	9.3	10.0	10.5	11.1	11.7
4.0				2.2	3.2	4.1	4.8	5.4	6.1	6.7	7.3	7.9	8.6	9.2	9.8	10.5	11.1	11.7	12.4
4.5					2.4	3.7	4.5	5.3	6.1	6.9	7.5	8.2	9.0	9.6	10.3	11.1	11.7	12.4	13.2
5.0						2.9	4.1	5.1	6.0	6.9	7.7	8.4	9.3	10.0	10.7	11.6	12.3	13.1	13.9
6.0							2.3	4.1	5.4	6.6	7.6	8.6	9.6	10.5	11.4	12.4	13.3	14.2	15.2
7.0								1.2	4.1	5.9	7.3	8.5	9.7	10.8	11.9	13.1	14.1	15.1	16.2
8.0										4.4	6.4	8.0	9.6	10.9	12.1	13.5	14.7	15.9	17.1
9.0											4.9	7.1	9.1	10.7	12.2	13.7	15.1	16.4	17.8
10												5.6	8.2	10.2	12.0	13.8	15.3	16.9	18.4
15															5.7	10.6	13.8	16.6	19.2
20																		11.1	16.2

C SERIES

Luminaire spacing

	C1	C1.25	C1.6	C2	C2.5	C3.2	C4	C5	C6.3	C8	C10	C12.5	C16	C20	C25	C32	C40	C50	C63
2.1	2.8	3.2	3.7	4.1	4.5	5.0	5.4	5.9	6.3	6.8	7.3	7.8	8.3	8.9	9.4	10.0	10.6	11.3	11.9
2.4	2.5	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.2	7.7	8.2	8.8	9.4	10.0	10.7	11.3	12.0	12.8
2.7	2.1	2.8	3.5	4.1	4.6	5.2	5.7	6.3	6.8	7.4	8.0	8.6	9.3	9.9	10.5	11.3	12.0	12.7	13.5
3.0	1.3	2.4	3.2	3.9	4.5	5.2	5.8	6.4	7.0	7.7	8.3	8.9	9.7	10.3	11.0	11.8	12.6	13.4	14.2
3.3		1.7	2.9	3.7	4.4	5.2	5.8	6.5	7.2	7.9	8.6	9.2	10.0	10.7	11.5	12.3	13.1	14.0	14.9
3.6			2.3	3.3	4.2	5.1	5.8	6.5	7.3	8.0	8.8	9.5	10.3	11.1	11.9	12.8	13.6	14.5	15.5
4.0				2.6	3.7	4.8	5.7	6.5	7.3	8.2	9.0	9.8	10.7	11.5	12.4	13.4	14.3	15.2	16.2
4.5					2.8	4.3	5.3	6.3	7.3	8.3	9.1	10.0	11.0	12.0	12.9	14.0	15.0	16.0	17.1
5.0						3.4	4.8	6.0	7.1	8.2	9.2	10.2	11.3	12.3	13.4	14.5	15.6	16.7	17.9
6.0							2.6	4.8	6.4	7.8	9.1	10.3	11.6	12.8	14.0	15.4	16.6	17.9	19.2
7.0								1.3	4.8	6.9	8.6	10.1	11.6	13.0	14.4	16.0	17.4	18.8	20.3
8.0										5.2	7.5	9.4	11.3	13.0	14.6	16.4	17.9	19.6	21.2
9.0											5.6	8.3	10.7	12.7	14.5	16.5	18.3	20.1	22.0
10												6.5	9.6	12.0	14.2	16.5	18.5	20.4	22.5
15															6.6	12.3	16.2	19.6	22.9
20																		12.9	18.9

Spacing tables

D SERIES

Luminaire spacing

	D1	D1.25	D1.6	D2	D2.5	D3.2	D4	D5	D6.3	D8	D10	D12.5	D16	D20	D25	D32	D40	D50	D63	D80	D125	D160
2.1	3.4	4.0	4.6	5.2	5.8	6.5	7.2	7.8	8.6	9.4	10.2	11.1	12.1	13.1	14.2	15.4	16.7	18.0	19.4	21.1	24.5	26.6
2.4	3.1	3.8	4.5	5.2	5.8	6.6	7.3	8.0	8.8	9.7	10.6	11.5	12.6	13.6	14.7	16.1	17.4	18.7	20.3	22.0	25.6	27.8
2.7	2.5	3.4	4.3	5.0	5.7	6.6	7.3	8.1	9.0	9.9	10.9	11.8	13.0	14.1	15.3	16.7	18.0	19.4	21.1	22.8	27.5	28.9
3.0	1.6	2.9	3.9	4.8	5.6	6.5	7.3	8.2	9.1	10.1	11.1	12.1	13.3	14.5	15.7	17.2	18.6	20.1	21.8	23.6	28.3	29.9
3.3		2.0	3.4	4.4	5.4	6.4	7.3	8.2	9.2	10.2	11.3	12.4	13.6	14.8	16.1	17.6	19.1	20.7	22.4	24.3	29.1	30.8
3.6			2.7	4.0	5.1	6.2	7.2	8.2	9.2	10.3	11.4	12.5	13.9	15.1	16.5	18.0	19.6	21.2	23.0	25.0	30.1	31.7
4.0				3.1	4.5	5.8	6.9	8.0	9.2	10.4	11.5	12.7	14.1	15.5	16.9	18.5	20.1	21.8	23.7	25.8	31.2	32.8
4.5					3.4	5.1	6.5	7.7	9.0	10.3	11.6	12.9	14.4	15.8	17.3	19.1	20.8	22.5	24.5	26.7	32.2	34.0
5.0						4.1	5.8	7.3	8.7	10.2	11.6	13.0	14.6	16.1	17.7	19.5	21.3	23.2	25.2	27.5	34.0	35.1
6.0							3.1	5.7	7.7	9.5	11.2	12.8	14.6	16.4	18.1	20.2	22.1	24.2	26.4	28.9	35.5	37.1
7.0								1.6	5.7	8.3	10.3	12.3	14.4	16.3	18.3	20.6	22.7	24.9	27.4	30.0	36.7	38.8
8.0										6.1	8.9	11.3	13.8	16.0	18.2	20.7	23.0	25.4	28.1	30.9	37.8	40.24
9.0											6.7	9.9	12.9	15.4	17.9	20.6	23.1	25.7	28.6	31.6	38.6	41.5
10												7.6	11.5	14.5	17.3	20.3	23.1	25.9	28.9	32.1	40.8	42.5
15															7.7	14.6	19.4	23.7	28.0	32.4	40.0	45.7
20																		15.2	22.5	28.9	-	46.1

E SERIES

Luminaire spacing

	E1	E1.25	E1.6	E2	E2.5	E3.2	E4	E5	E6.3	E8	E10	E12.5	E16	E20	E25	E32	E40	E50	E63
2.1	3.8	4.2	4.8	5.2	5.6	6.0	6.2	6.6	7.0	7.4	7.8	8.0	8.4	8.8	9.0	9.4	9.6	9.8	10.0
2.4	3.6	4.2	4.8	5.2	5.8	6.2	6.6	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0	10.2	10.6	11.0	11.2
2.7	3.2	4.0	4.8	5.4	5.8	6.4	7.0	7.4	8.0	8.4	9.0	9.4	9.8	10.4	10.8	11.2	11.6	12.0	12.2
3.0	3.6	3.6	4.4	5.2	6.0	6.6	7.2	7.8	8.4	9.0	9.4	10.0	10.6	11.0	11.4	12.0	12.4	12.8	13.2
3.3		4.0	4.0	5.0	5.8	6.6	7.4	8.0	8.6	9.2	9.8	10.4	11.0	11.6	12.2	12.8	13.2	13.8	14.2
3.6		3.0	4.2	4.6	5.8	6.6	7.4	8.2	8.8	9.6	10.2	11.0	11.6	12.2	12.8	13.4	14.0	14.6	15.0
4.0			3.8	4.8	5.2	6.6	7.4	8.4	9.2	10.0	10.8	11.4	12.2	13.0	13.6	14.4	15.0	15.6	16.2
4.5				4.0	5.2	5.8	7.2	8.4	9.4	10.2	11.2	12.0	12.8	13.6	14.4	15.4	16.0	16.8	17.6
5.0					4.6	5.8	6.6	8.2	9.4	10.4	11.4	12.4	13.4	14.4	15.2	16.2	17.0	17.8	18.8
6.0							7.0	7.0	8.8	10.4	11.8	13.0	14.4	15.4	16.6	17.8	18.8	19.8	20.8
7.0								6.8	8.2	9.4	11.6	13.2	14.8	16.2	17.4	19.0	20.2	21.4	22.6
8.0									7.0	9.4	10.2	12.8	14.8	16.6	18.2	19.8	21.4	22.8	24.2
9.0										8.0	10.4	11.4	14.4	16.6	18.6	20.4	22.2	23.8	25.6
10											9.2	11.6	13.2	16.2	18.6	20.8	22.8	24.8	26.6
15														15	17.4	17.4	22.0	26.0	29.4
20																20	18.4	23.2	25.8

Fulleon signalling devices

At Eaton we provide optimised protection of people, assets and reputation for business continuity in a variety of different product categories.

As a leader in life safety for decades, our signalling devices are developed to comply with industry codes and standards such as AS7240-3, AS7240-11 and AS7240-23. Setting the new standard, our signalling devices provide best-in-class efficiency and clear and intelligible communications.

RoLP Sounder



- Market leading conventional sounder
- Used across many functions: security, general signalling and process alarms
- Available in RoLP maxi, with higher sound output

RoLP Solista Sounder beacon



- Low current LED sounder beacon
- Device is extremely efficient
- Ideal for notification purposes where sounder circuit capacity is limited

RoLP Solista Maxi Sounder beacon



- Enhanced version of the RoLP Solista providing higher sound output on six key tones
- Suitable for use where higher noise levels require a more powerful sounder

RoLP LX Wall mount sounder beacon



- Reliable, high performance VAD
- Idea for dual use where a visual alarm device is required in addition to an audible alarm

Askari Compact sounder



- Discrete sounder flush of surface fixing
- Ideal for retail, hotel and residential applications

Asserta Mini Sounder beacon



- 105dB(A) output
- Low current consumption
- Ideal for general signalling in industrial environments
- IP66 rating

Asserta Midi Sounder beacon



- 112dB(A) output
- Low current consumption
- Ideal for general signalling in industrial environments
- IP66 rating

Asserta Maxi Sounder beacon



- 120dB(A)
- Low current consumption
- Ideal for general signalling in industrial environments
- IP66 rating

FB Bell



- 95dB(A) sound output
- Unique patented alarm bell designed for use in fire, security and other signalling systems
- Aesthetically pleasing design makes it suitable for all applications

CF Bell



- 95dB(A) sound output
- Popular choice for many applications including signalling class change in schools
- Incorporates highly efficient rotary centrifugal movements combining high sound output and low current consumption

CXL Universal



- Combines a number of features into one package
- Comes with a standard plastic and glass element
- Integrated LED indicators provides flexibility for diverse applications

Solista LX Wall mount beacon



- Suitable for a variety of applications
- Available in red and white
- Combines a patented lens design and minimum current consumption
- Ceiling mount beacon also available

Solista Maxi beacon



- Allows the users a choice between economy and performance
- Economy mode performs extremely efficiently requiring as little as 3mA
- Can be switched to attain a much higher light output

Fulleon Solista Xenon beacon



- Flexible solution, offering wide operating voltage and automatic synchronisation
- Powered by Xenon technology
- Cost effective solution that can complement audible alarms in high noise environments

Flashni Base sounder



- Audible and visual device which requires one single installation point
- Greatly reduces installation cost and is less obtrusive than two devices
- Versions are available with the sounder and beacon linked, or with separate terminals

Terms and conditions of sale

General

NOTE 1: These Terms and Conditions of Sale shall apply to all sales of equipment and services by Cooper Electrical Australia Pty Ltd as used herein, "seller", "we" and "our" shall refer to Cooper Electrical Australia Pty Ltd.

Acceptance of Orders

NOTE 2: All quotations and tenders, and the acceptance of all contracts and orders, are subject to final approval by the home office of Cooper Electrical Australia Pty Ltd at Sydney, NSW, Australia. Prices, cash discounts and terms are subject to change without notice.

NOTE 3: Cooper Electrical Australia Pty Ltd will accept orders and bill in accordance with published prices in Cooper Electrical Australia Pty Ltd current price list and terms found therein, even though incorrect prices and terms may appear on the purchaser's order.

Terms of Payment

NOTE 4: Payments to be in Australian Dollars in Sydney, NSW, Australia upon credit terms established by Cooper Electrical Australia Pty Ltd. Your account terms are net 30 days from end of month.

Cooper Electrical Australia Pty Ltd at it's sole written option may accept payment by means of deposit to an account in a country and in a foreign currency at an exchange rate designated by Cooper Electrical Australia Pty Ltd.

Important Price Information

NOTE 5:

(a) List prices and discounts are subject to change without notice. All prices are subject to change without notice. All prices are quoted in Australian dollars unless otherwise stated.

(b) Billing Price: Orders except "hold for release" orders and "deferred orders" will be billed at the price in effect on the date of receipt of the order or the date of shipment, whichever is lower. "Hold for release" orders will be

billed at the price in effect on the date of release. "Deferred orders" will be billed at the price in effect on date of shipment.

(c) A restocking fee of 15% may be applied to all stock accepted for return by the seller. Goods for return must follow the seller's Goods Return Policy and Procedures.

(d) Return of custom-made product is not acceptable.

(e) Tax: Prices shown in the Cooper Electrical Australia Pty Ltd price list do not include tax. If tax were applicable this would be chargeable at the rate ruling as at the shipment date.

(f) Lamps: Lighting fixture prices do not include lamps unless specified in quote.

(g) Claims for billing errors on invoices must be made to Cooper Electrical Australia Pty Ltd within seven (7) days from the date of the invoice.

Taxes

NOTE 6: Cooper Electrical Australia Pty Ltd reserves the right to add to the price of its products at any time an amount equivalent to any duties, imposts, revenues, sales use, manufacturer's payroll, excise or other taxes which may be imposed and made applicable to their product.

Delivery

NOTE 7:

(a) Cooper Electrical Australia Pty Ltd will use its own discretion in routing all shipments upon which it assumes transportation charges. Where practical to do so, shipments will be made in any manner request by the customer, if the customer will assume the extra transportation costs.

(b) Export orders will be supplied ex works Australia unless otherwise specified.

(c) Cooper Electrical Australia Pty Ltd shall not be liable for failure to deliver or delays in delivery occasioned by causes beyond its control, including but not limited to, strikes, lockouts or other industrial disturbances, inability to obtain materials, breakdowns, delays of carriers or suppliers, governmental acts and regulations, acts of public enemies, wars, blockages, insurrections, riots, earthquakes, fires, storms, floods, washouts, and explosions.

Shipping Charges

NOTE 8: All C.I.F. charges (freight, insurance, forwarding taxes, etc) are in addition to costs of material and will be billed as separate items.

Packing

NOTE 9: All orders will be shipped based upon Cooper Electrical Australia Pty Ltd standard packing. Any customer specific, or unusual packaging requirements will be quoted and charged accordingly.

Government Restrictions

NOTE 10: The acceptance, processing and fulfilment of orders will be subject to and contingent upon restrictions and conditions imposed by the governments having jurisdiction over points of manufacture or passage of the merchandise.

Partial Shipment

NOTE 11: Export orders will be shipped as complete orders unless specific instructions are received from the customer authorising partial shipments and accepting any additional transportation or packing charges resulting from partial shipment.

Minimum Order Value - \$100.00

NOTE 12: applies to all orders. Any order less than \$100.00 may incur a penalty charge of up to \$100.00 plus handling and transportation charges.

Limited Warranty

NOTE 13: Products of Cooper Electrical Australia Pty Ltd manufacture are warranted against mechanical, electrical and physical defects for a period of one year from the date of shipment from the factory,

if they have been properly used, and are warranted to be merchantable and fit for the ordinary purpose for which such products are used. There are no express warranties or warranties of fitness for any particular purpose, or any implied warranties, other than those made expressly herein, all such warranties being expressly disclaimed. The obligation of Cooper Electrical under this warranty of merchantability and fitness for the ordinary purpose for which the products are used, and all other warranties are limited to the furnishing of new parts free of charge in exchange for parts which have proven defective and does not include any other costs such as the cost of removal of defective part, installation, labour or consequential damages of any kind, the exclusive remedy being to require such new parts to be furnished. Cooper Electrical Australia Pty Ltd assumes no responsibility for proper selection and installation to its products.

Claims for Shortages

NOTE 14: No claims for shortages of material will be recognised by Cooper Electrical Australia Pty Ltd unless such alleged shortage is reported to Cooper Electrical Australia Pty Ltd within 48 hours from receipt of shipment at destination.

Claims for Damage or Loss in Transportation

NOTE 15: Risk of loss of goods passes to the Purchaser on delivery to the common carrier at Cooper Electrical Australia Pty Ltd point of shipment with delivery to the common carrier constituting delivery to the Purchaser, the Consignee should file with the appropriate carrier, any claims for loss or damage in transit.

Disputes

NOTE 16: Any dispute arising under these terms shall at the written request of either party delivered to the other party not less than twenty days in advance of the date of such submittal, be settled by arbitration. The site of such arbitration, unless the parties agree otherwise, shall be in the city of Sydney, NSW, Australia. This agreement shall be enforceable and judgement upon any award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. These Terms and Conditions shall be construed and interpreted according to the laws of the State of New South Wales, Australia.

Product Description

NOTE 17: The product information published in our catalogues and literature is not guaranteed. It has been compiled with care and is sufficiently accurate for most purposes. It is subject to change without notice. Occasionally, it may be necessary to modify the materials, finishes or other components of the product. These changes in no way reduce the performance or function for which the product is intended.

Product Liability Limitation

NOTE 18: All statements technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. In accordance with Cooper Electrical Australia Pty Ltd "Terms and Conditions of Sale" and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability in connection therein.

Retention of Title

NOTE 19: The ownership of the products supplied does not pass to the purchaser until the purchaser has discharged all outstanding indebtedness (whether in respect of the products supplied or otherwise) to the seller whatsoever or until such time as the purchaser sells the products to it's customers in the ordinary course of business. Until payment in full of such indebtedness has been made, the buyer acknowledges and agrees that:

(a) The products supplied are held by the purchaser in a fiduciary capacity as bailee to be sold by it as agent for and on behalf of the seller.

(b) The purchaser shall if directed by the seller store the products supplied marked in such a way that it is clear that they are the property of the seller but all cost of storage (whether or not the storage is at the direction of the seller) shall be to the account of the purchaser.

(c) If the products supplied or part thereof have been sold by the purchaser to it's customers prior to payment in full of the outstanding indebtedness of the buyer, then the debts of the purchaser arising from such on-sales, shall be the property of the seller and shall be held on a fiduciary basis separately for its account and not mixed with the purchaser's other moneys, debts or property and payable immediately without demand. The seller has the right to trace the proceeds of any such sales in accordance with the equitable principles.

****Please refer to Cooper Electrical Australia for full terms and conditions of sale****

Eaton's electrical business is a global leader with expertise in power distribution and circuit protection; backup power protection; control and automation; lighting and security; structural solutions and wiring devices; solutions for harsh and hazardous environments; and engineering services. Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges.

Eaton is a power management company with 2016 sales of \$19.7 billion. We provide energy efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Eaton is dedicated to improving the quality of life and the environment through the use of power management technologies and services. Eaton has approximately 95,000 employees and sells products to customers in more than 175 countries.

For more information, visit Eaton.com.

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Powering Business Worldwide