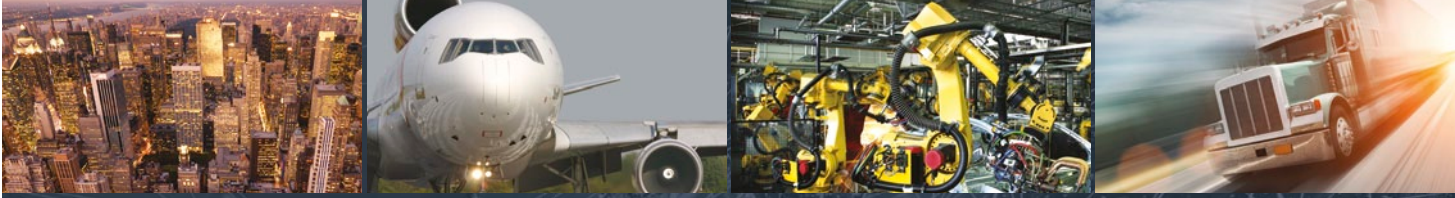




Simply the most flexible,  
reliable monitoring  
for peace of mind



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# Enhanced safety by providing reliable and efficient monitoring

Bringing all the best features from existing platforms, Eaton's portfolio of life safety products has now been enhanced with the launch of its latest emergency lighting monitoring system for self-contained luminaires. 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 supported by CGVision software, the system is capable of monitoring from 1 to over 25000 luminaires offering the scalability your project requires.

Individual building plans can be uploaded into the system creating a graphical representation of the location of each luminaire, allowing quick and easy identification in the event of any maintenance requirements. The Auto-ID function eliminates the manual addressing of the luminaires which reduces commissioning time and the automatic testing of each individual luminaire reduces maintenance cost.



CGLine+ issues an alert and pinpoints the location for any remedial work as soon as its detected. Also all events and tests are auto-populated into the digital log book where history and system configuration are securely backed up providing reliable efficient monitoring of your emergency lighting system and allowing you to comply with regulations.

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



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

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

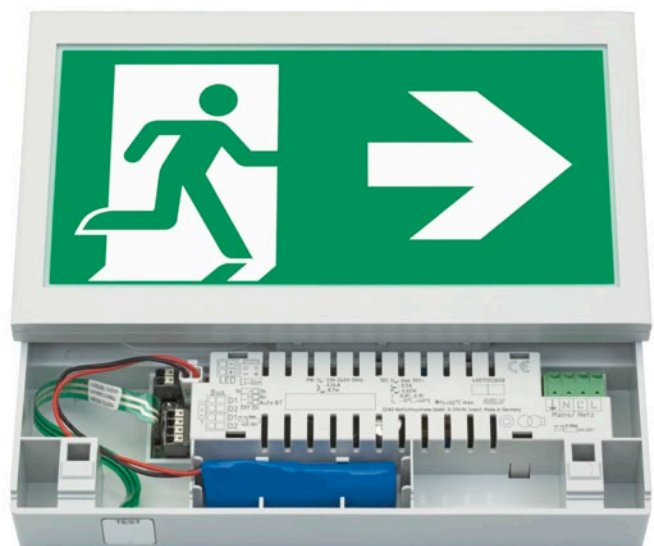
Even if a single safety luminaire or exit sign luminaire fails, depending on the particular local conditions, there is a significant risk of accidents, for example in a stairway. For this very reason legislation requires continuous testing of the emergency lighting. The operation of the luminaires in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

### Self-contained luminaires without an automatic test function

The function test is performed in case of single self-contained luminaires by pressing a button on the luminaire, and the result must be recorded by hand in a log book. An additional duration test for the duration of the rated operating time (1, 3 or 8 hours) 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 tests, the function test and the duration test, 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 in paper form for at least 4 years.



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

### Central controller provides more safety

The new 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.

# CGLine+ self-contained luminaire system

Enhanced safety by providing reliable and efficient monitoring

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

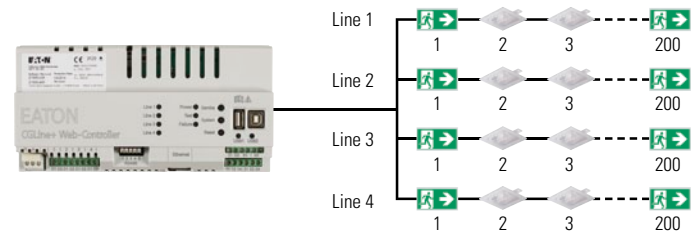


The new CGLine+ Web-Controller

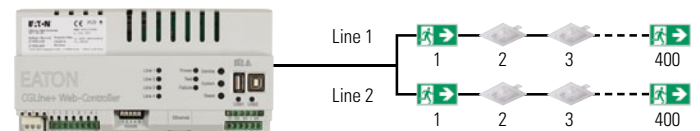
The tried and tested self-contained luminaire system CGLine 400 has been used since 2004 for the safe monitoring of self-contained luminaires. The new CGLine+ system is a more powerful system to make the operation of self-contained luminaire systems safer and even more convenient.

### Now up to 800 luminaires monitored

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



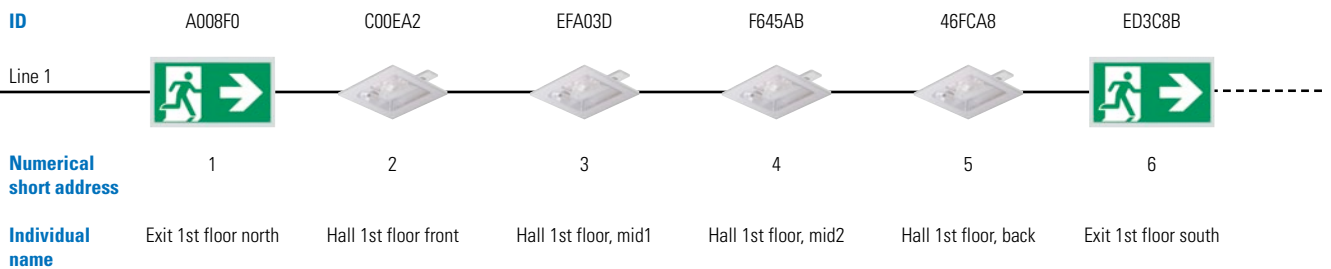
Typical installation with max. 4 lines of 200 luminaires each (above) or 2 lines of 400 luminaires each (below).



### Addressing CGLine+ luminaires

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

In addition, each luminaire can be configured to receive a short digital address and an individual name with a maximum of 20 characters. Hence it is possible to use a name which corresponds to the name of 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.

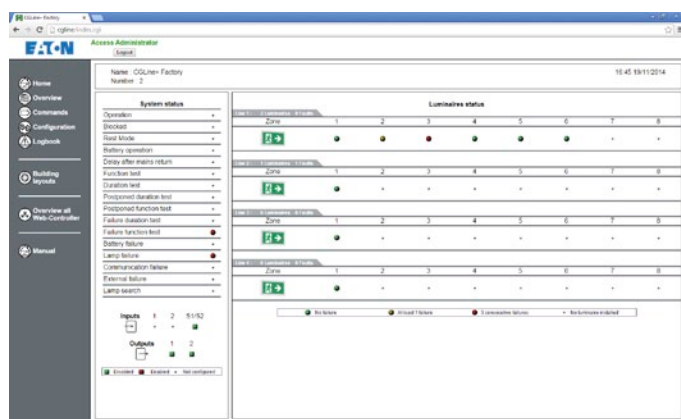
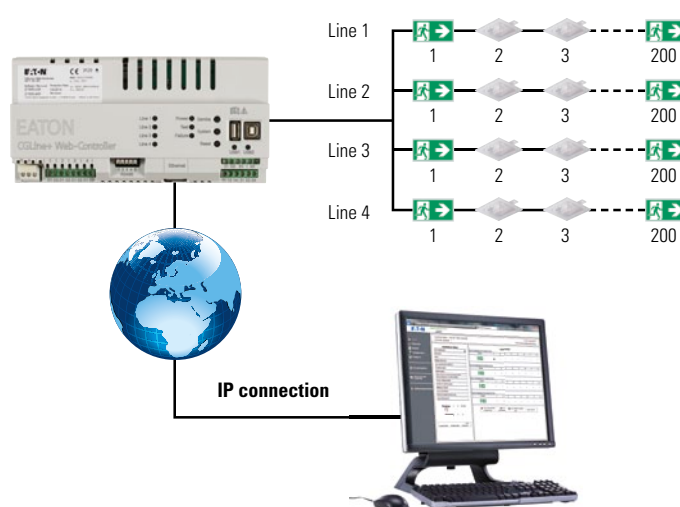






### Safety under control worldwide

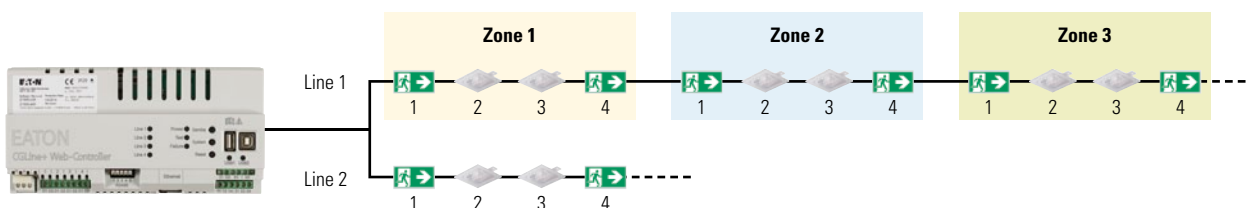
An integrated web server is available for convenient visualization, control and monitoring of all connected CGLine+ luminaires. The controller can be accessed from any PC with an IP connection and a regular web browser without requiring any special software. The controller provides an overview of faulty 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.

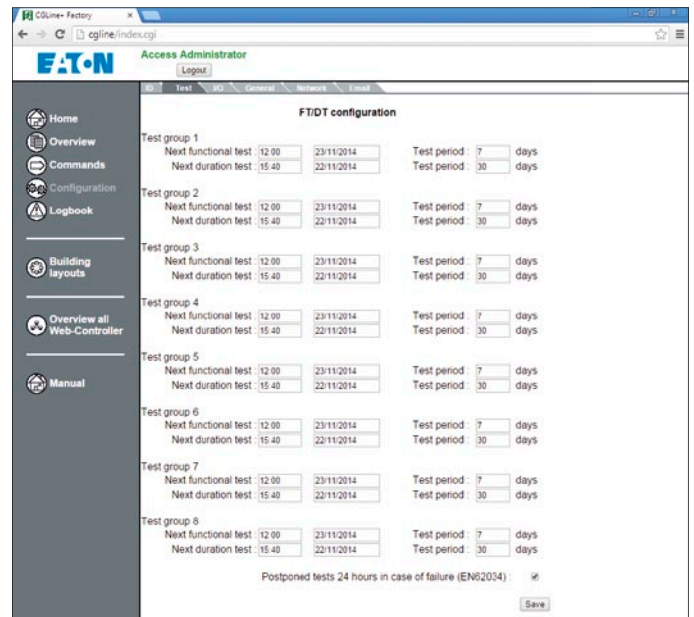


# CGLine+ self-contained luminaire system

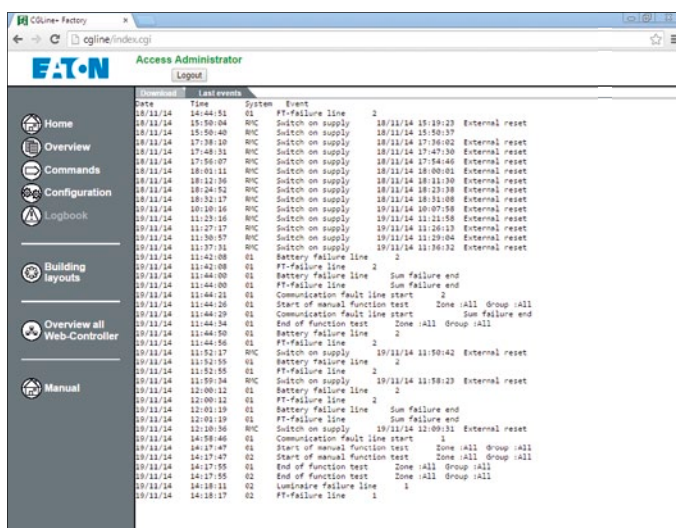
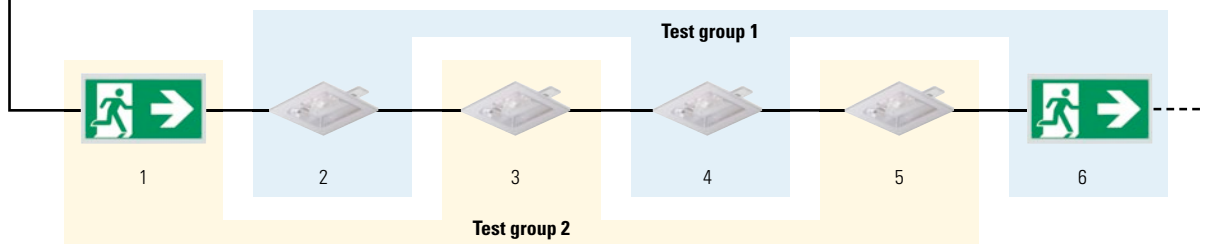
Enhanced safety by providing reliable and efficient monitoring

## 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.



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

## The electronic log book saves the need for manual logging

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

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



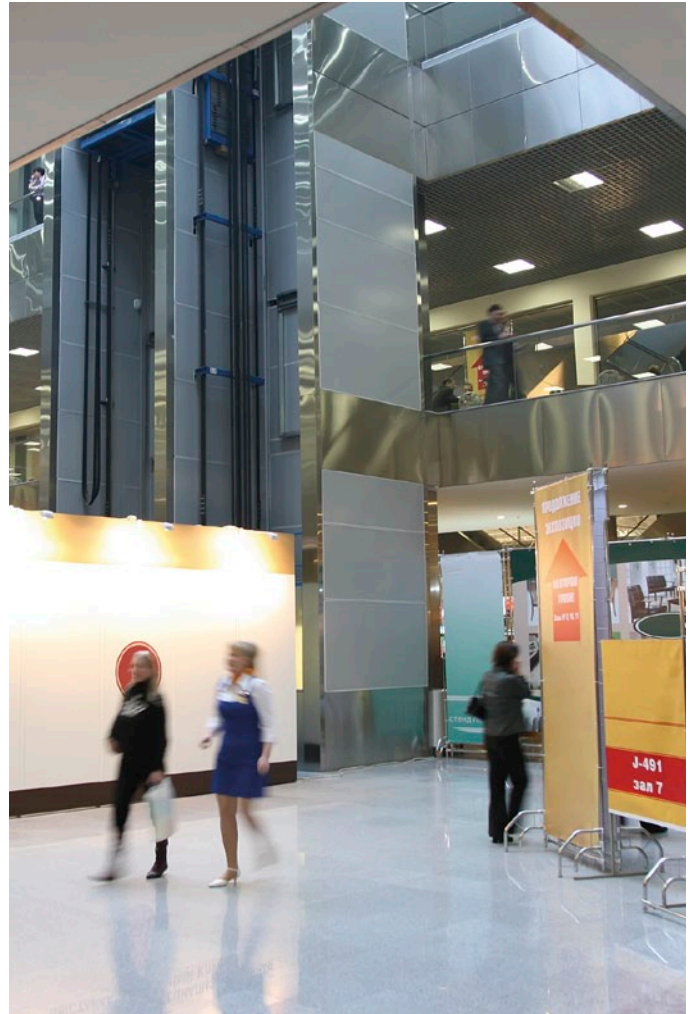
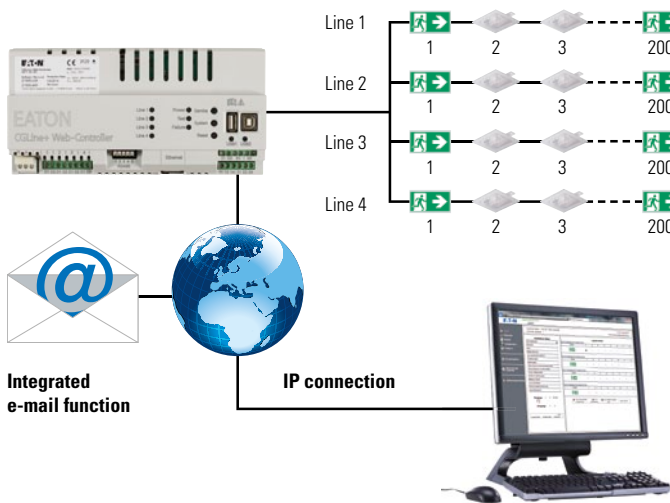
# CGLine+ self-contained luminaire system

Enhanced safety by providing reliable and efficient monitoring

## 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.



## 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

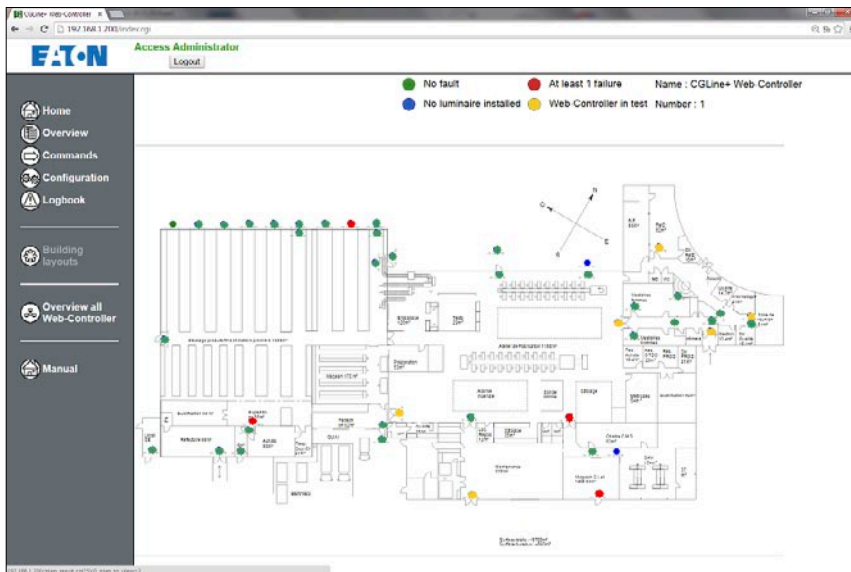
This can be done in detail for all luminaires, for a line, for a zone and down to individual luminaires.

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



# CGLine+ self-contained luminaire system

Enhanced safety by providing reliable and efficient monitoring



## 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.

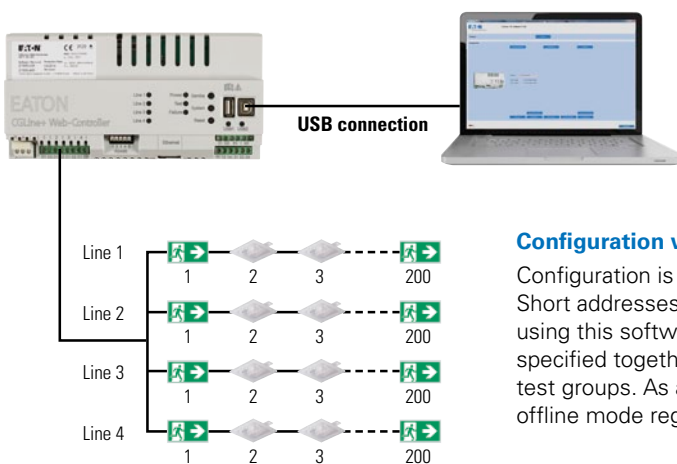
The overview helps provide better orientation in the building. The situation can be judged more effectively and repairs better prioritised.

## Compatibility with the CGLine 400 System

The comprehensive functionality of the CGLine+ controller can only be used in conjunction with CGLine+ luminaires. But of course CGLine+ luminaires and CGLine 400 luminaires can be connected to the CGLine+ controller in a straightforward manner in a mixed setup. In this set-up the controller operates in CGLine 400 mode only. The extended CGLine+ functions can be used only when only unmixed CGLine+ luminaires are installed. The new CGLine+ luminaires can also be used together with the proven CG controller CGLine 400 in CGLine 400 mode.

	CGLine+ luminaires	CGLine 400 luminaires
<b>CGLine+ Controller</b>	CGLine+ mode	CGLine 400 mode
<b>CGLine 400 Controller</b>	CGLine 400 mode	CGLine 400 mode

Comprehensive CGLine+ functions using CGLine+ luminaires connected to a CGLine+ controller



## Configuration with PC software

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

# CGLine+ self-contained luminaire system

## CGLine+ Web-Controller

### CGLine+ Bus

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

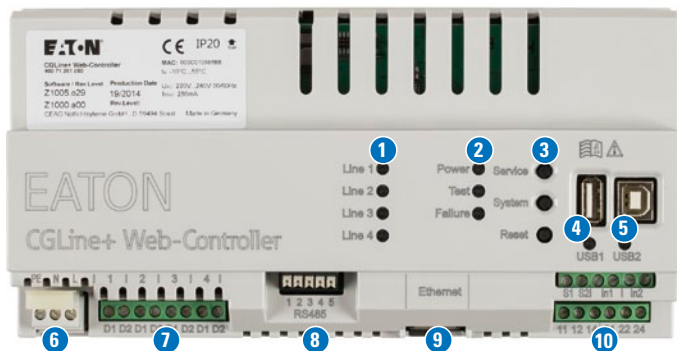
### Cable length of a line

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

### Electrical data per line/bus

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

### Set-up of the CGLine+ Web-Controller



#### 1 LEDs for line 1 to line 4:

It signals the sending or receiving of data between the CGLine+ Web-Controller and the CGLine+ self-contained luminaires.

- Green LED = Receiving of data by the Web-Controller

- Yellow blinking LED = Sending data to the luminaires

#### 2 Power LED:

The green light is lit as soon as the controller is connected to the 230V/AC supply voltage.

#### Test LED:

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

#### LED failure:

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

#### 3 Button:

- Service = Starts a function test for example
- System = Starts a USB connection using the USB2 port
- Reset = Hardware reset of the device

#### 4 USB1 port (Host) for

connecting a regular USB memory stick

#### 5 USB2 port (Device), for

connecting to a PC

#### 6 PE/N/L 230V 50/60Hz

#### 7 Connections for the CGLine+ bus, line 1 to line 4

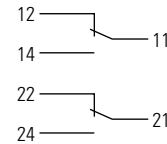
#### 8 RS485

#### 9 LAN (RJ45) with LED display

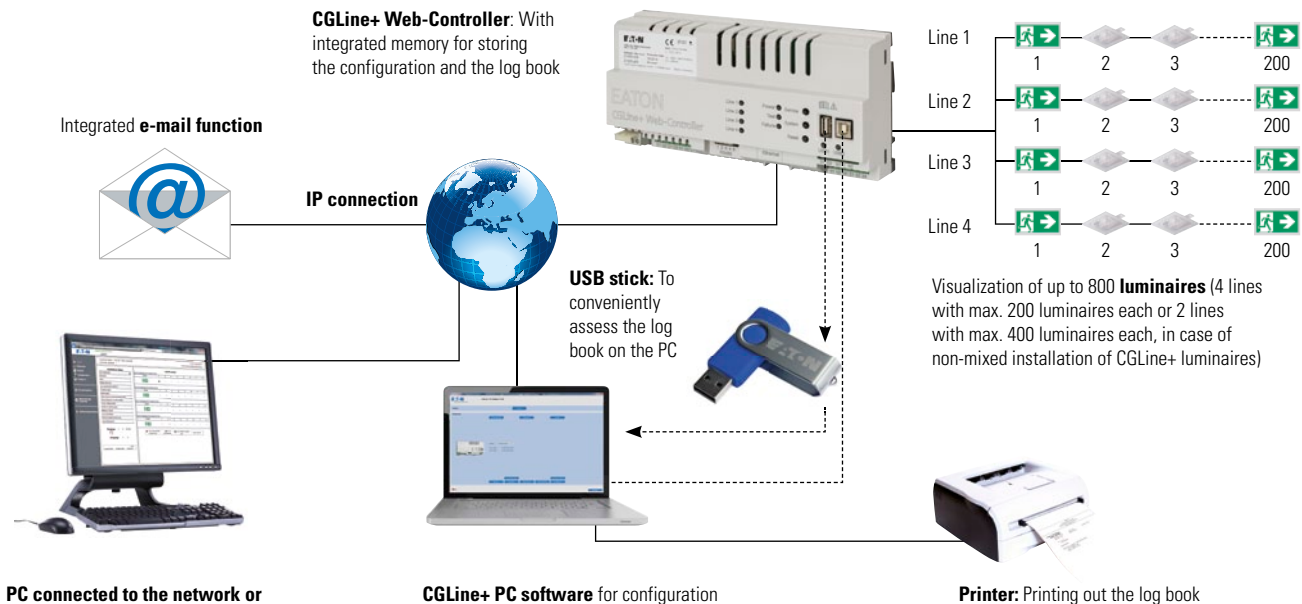
- yellow = connected (link)
- green = data transfer (traffic)

#### 10 Digital inputs and outputs:

- S1/S2 = Blocking input
- In1, In2 = 2 x digital inputs
- 11, 12, 14 / 21, 22, 24 = 2 x relay outputs



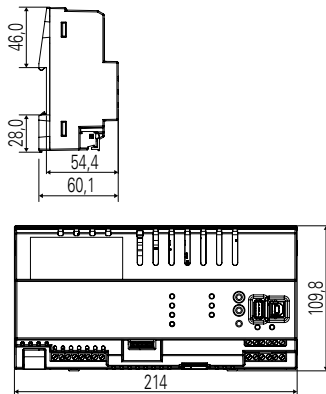
### CGLine+ in operation



CGLine+ Web-Controller with integrated web server



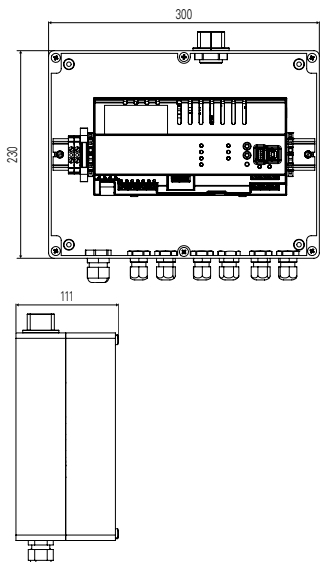
Dimensional drawings, data in mm



CGLine+ Web-Controller connection box



Dimensional drawings, data in mm



### CGLine+ Web-Controller

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

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

### Ordering details

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

### Accessories

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



## Mobile visualization

CGLine+ Wireless Monitoring Set

# CGLine+ Wireless Monitoring Set

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

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



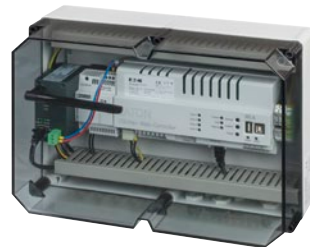
## Installation example



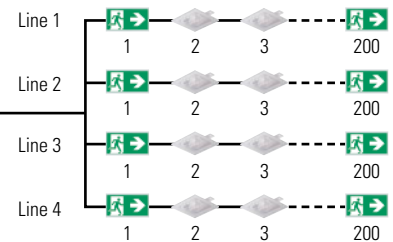
Current status indicator of all CGLine+ luminaires at all times in the web browser of a tablet or smartphone



WiFi (wireless network connection)



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



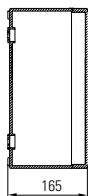
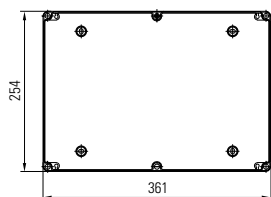
CGLine+ WiFi connection box + iPad\* Air



+



Dimensional drawing connection box, data in mm



### CGLine+ Wireless Monitoring Set

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

### CGLine+ WiFi connection box

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

### Ordering details

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

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

# CGLine+ self-contained luminaire system

CGVision in the CGLine+ Web-Controller



## CGVision in the CGLine+ Web-Controller

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

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

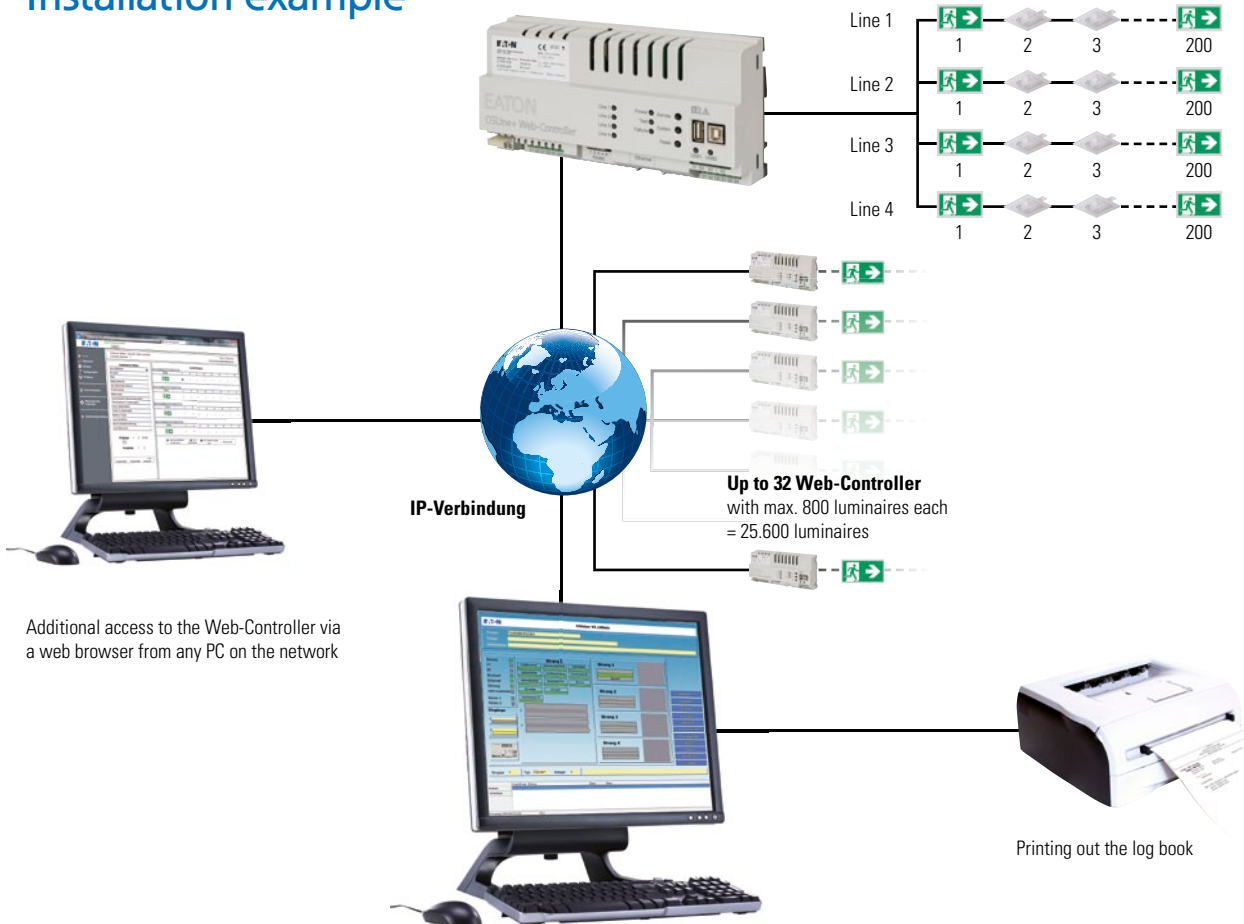
CGVision takes over all the control and test functions, and it generates a comprehensive electronic log book for all connected systems- and does so completely automatically.

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

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

## Installation example

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



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

Printing out the log book

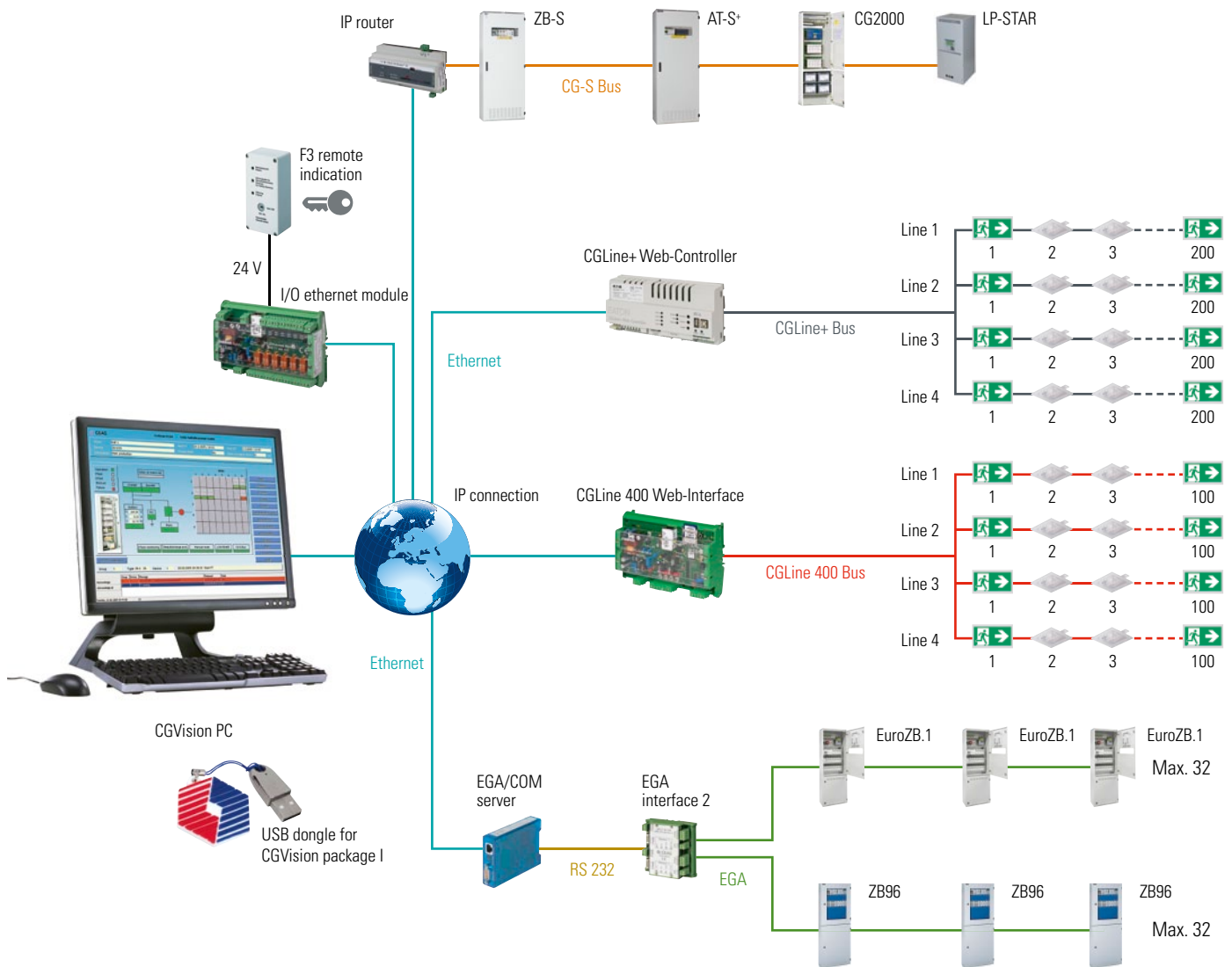
CGVision: Configuration und complete visualization of all luminaires



# CGLine+ self-contained luminaire system

CGVision in the CGLine+ Web-Controller

## Example for use of CGVision Package I



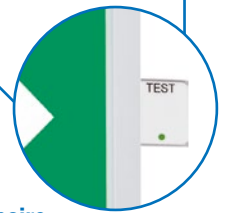
### CGVision ordering details

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

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







# CGLine+ self-contained luminaires

The CGLine+ self-contained luminaire series are available in the widest variety of housing shapes and protection ratings, and they offer a wide range of application options.

What all luminaires have in common is the CGLine+ functionality: In autonomous operation mode (without bus connection), the electronics fully automate the necessary function tests and duration tests. Test results are shown directly at the luminaire. CGLine+ luminaires are generally suitable for maintained and non-maintained mode.

The full potential of CGLine+ electronics is only utilised if the luminaires are connected to the controlling CGLine+ Web-Controller using the standard bus interface.

Amongst other things, this ensures decentralised monitoring of luminaires and allows the blocking of the device, for example during non-operational periods, and reduces expenditure linked with keeping the required log book by storing all results. Even a larger-scale project comprising a great number of self-contained luminaires can be operated cost-efficiently, and safety is monitored in compliance with the regulations.

In addition, optimised lighting technology ensure an economical emergency lighting system. Variations with highly-efficient LEDs bring even greater improvements. Particularly low installed loads and an LED lifetime of 50,000 hours minimise energy and maintenance costs.

## Characteristics of CGLine+ self-contained luminaires:

- Automatic function test and duration test
- All luminaires are suitable for maintained and non-maintained mode
- High-efficiency LEDs for low energy and maintenance costs
- Pictogram illumination compliant with standards
- Complies with the requirements of DIN EN 60598-2-22

## Status display with fault analysis using multi-coloured LEDs directly on the luminaire

Operation mode	LED
No failure	● green light on
Emergency mode	○ LED is off
Delay on mains return	●/● blinks green/yellow alternately at 0.5 Hz
Function test active / Duration test active	● blinks green at 1 Hz
Luminaire blocked	●/● blinks green/yellow alternately at 1 Hz

Error messages	LED
Charge fault / Function test failed / Duration test failed	● yellow light blinks slowly at 0.5 Hz
Luminaire fault	★ yellow light blinks rapidly at 2 Hz

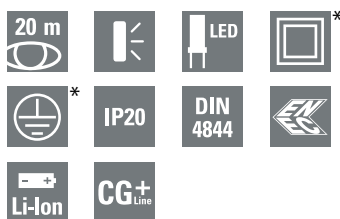
## Definitions of product feature icons

Icon	Definition	Icon	Definition
	Viewing distance, here: 20 m		Suitable for outdoor use
	Light output, here: single-sided		According to DIN 4844
	LED light source		According to EN 1838
	Protection class 1		Suitable for use in food processing industry acc. IFS
	Protection class 2		ENEC certified
	Degree of protection, here: IP20		With Lithium-ion battery
	Degree of mechanical impact resistance, here: IK10		With CGLine+ technology
	Luminaire with limited surface temperature		



# GuideLed 10811, 10812 CGLine+

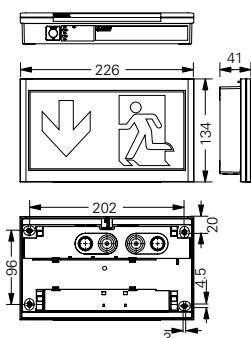
Exit sign luminaire, wall mounting



## GuideLed 10811, 10812 CGLine+

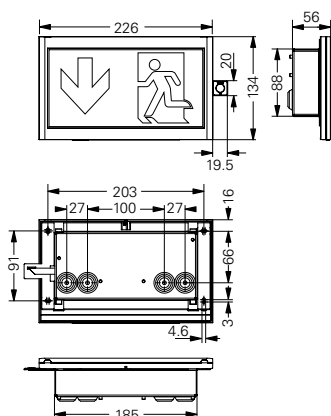
- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h operation
- For autonomous installation or connection to the CGLine+ monitoring system
- Environmentally-friendly due to modern lithium ion technology
- Low operating costs via low connected load
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m<sup>2</sup> according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity  $L_{min}/L_{max} > 0.8$
- 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)

10811 CGLine+ with LED pictogram PR



Viewing distance	20 m
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	100 % at 1 h; 80 % at 3 h; 25 % at 8 h
Housing material	Polycarbonate, PMMA, sheet steel (semi-recessed wall housing)
Housing colour	Light grey RAL 7035
Weight	0.64 kg (10811 CGLine+) 0.84 kg (10812 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) to 2.5 mm <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>
Connection voltage	220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power / effective power)	4.8 VA / 4.1 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




10812 CGLine+ with LED pictogram PR



## Ordering details – mounting set

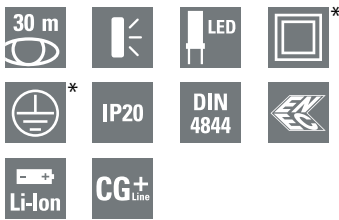
Scope of delivery	Order No.
Wall mounting set for GuideLed 10811 1-8 h/D CGLine+ and 11811 1-8 h/D CGLine+, surface mounted, incl. LED supply and CGLine+ technology, 20 m and 30 m	40071353260
Wall mounting set for GuideLed 10812 1-8h/D CGLine+, recessed mounting of LED supply and CGLine+ technology, 20 m	40071353261

## Ordering details – LED pictograms (fastening set required)

Scope of delivery	Order No.
LED pictogram PL for GuideLed 10x11/10x12, ISO 7010, 20 m	 40071354500
LED pictogram PR for GuideLed 10x11/10x12, ISO 7010, 20 m	 40071354501
LED pictogram PU for GuideLed 10x11/10x12, ISO 7010, 20 m	 40071354502

Please ensure clearance of 10 mm above the luminaire.

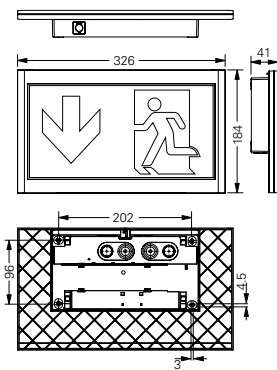
\* 10811: Protection class 2  
10812: Protection class 1



## GuideLed 11811, 11812 CGLine+

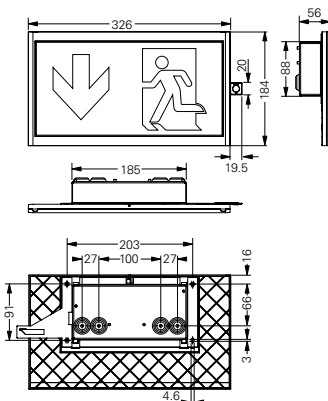
- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h operation
- For autonomous installation or connection to the CGLine+ monitoring system
- Environmentally-friendly due to modern lithium ion technology
- Low operating costs via low connected load
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m<sup>2</sup> according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity  $L_{\min}/L_{\max} > 0.8$
- 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)

11811 CGLine+ with LED pictogram PR



Viewing distance	30 m
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	100 % at 1 h; 50 % at 3 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) to 2.5 mm <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>
Connection voltage	220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power / effective power)	5.3 VA / 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




11812 CGLine+ with LED pictogram PR



## Ordering details – mounting set

Scope of delivery	Order No.
Wall mounting set for GuideLed 10811 1-8 h/D CGLine+ and 11811 1-8 h/D CGLine+, surface mounted, incl. LED supply and CGLine+ technology, 20 m and 30 m	40071353260
Wall mounting set for GuideLed 11812 1-8h/D CGLine+, recessed mounting of LED supply and CGLine+ technology, 30 m	40071353262

## Ordering details – LED pictograms (fastening set required)

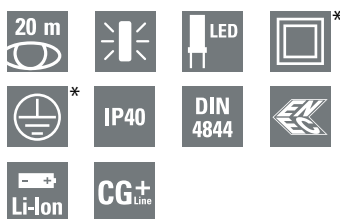
Scope of delivery	Order No.
LED pictogram PL for GuideLed 11x11/11x12, ISO 7010, 30 m	 40071354530
LED pictogram PR for GuideLed 11x11/11x12, ISO 7010, 30 m	 40071354531
LED pictogram PU for GuideLed 11x11/11x12, ISO 7010, 30 m	 40071354532

Please ensure clearance of 10 mm above the luminaire.

\* 11811: Protection class 2  
11812: Protection class 1

# GuideLed 10821, 10822, 10823, 10824 CGLine+

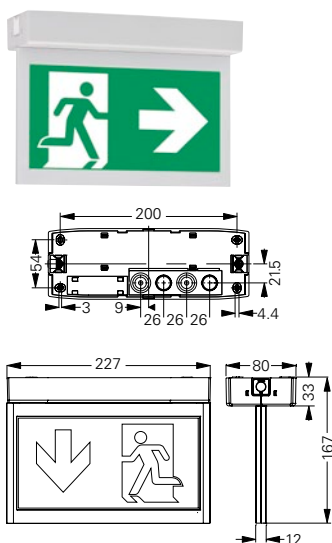
Exit sign luminaire, ceiling mounting



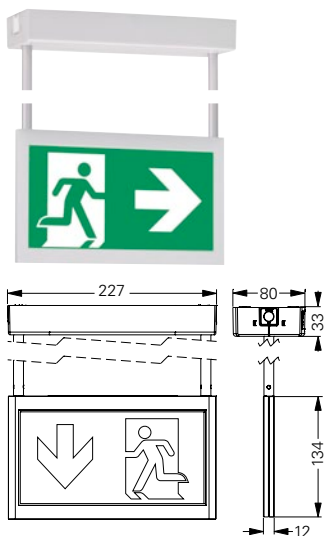
## GuideLed 10821, 10822, 10823, 10824 CGLine+

- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 (50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m<sup>2</sup> according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity  $L_{min}/L_{max} > 0.8$
- 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)

10821 CGLine+ with LED pictogram PL/PR



10822 CGLine+ with LED pictogram PL/PR



Viewing distance	20 m	
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	one sided	100 % at 1 h; 80 % at 3 h; 25 % at 8 h
	double sided	100 % at 1 h; 50 % at 3 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 <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>	
Connection voltage	220 - 240 V AC, 50/60 Hz	
Power consumption mains operation (apparent power / effective power)	one sided	4.8 VA / 4.1 W
	double sided	5.6 VA / 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	

## Ordering details – mounting set

Scope of delivery	Order No.
Ceiling mounting set 10821 1-8 h/D CGLine+ with canopy, incl. LED supply and CGLine+ technology, 20 m	40071353264
Ceiling mounting set 10822 1-8 h/D CGLine+ with canopy and 0.5 m pendant tube, incl. LED supply and CGLine+ technology, 20 m	40071353265
Ceiling mounting set 10823 1-8 h/D CGLine+ with canopy and 1.5 m pendant tube, incl. LED supply and CGLine+ technology, 20 m	40071353266
Ceiling mounting set 10824 1-8 h/D CGLine+ incl. ceiling recessing housing (sheet steel) for ceiling thicknesses 1 to 25 mm and ceiling plate, incl. LED supply and CGLine+ technology, 20 m	40071353267

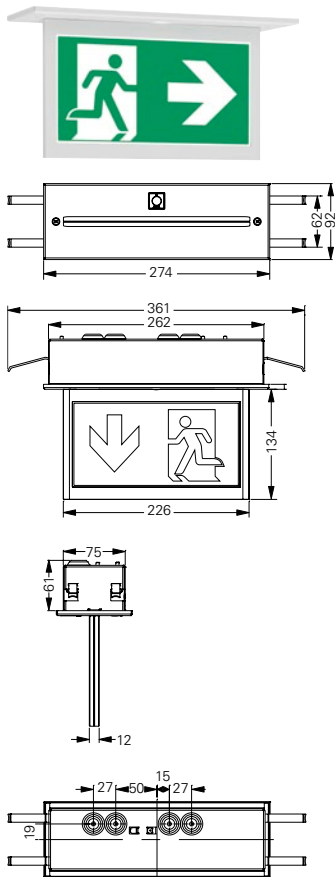
## Accessories

Scope of delivery	Order No.
Add-on housing for GuideLed ceiling surface-mounted 1082x, for expanded accommodation for wiring and cable entry, incl. through-wiring terminal and wiring to luminaire	40071353639
Chain suspension for GuideLed 10821/11821 1-8 h/D CGLine+	40071353624
Recessing housing for concrete for GuideLed 10824 1-8 h/D CGLine+	40071353520

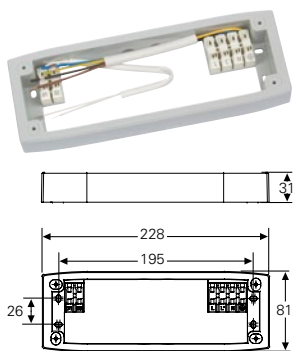
\* 10821, -22, -23: Protection class 2  
10824: Protection class 1



10824 CGLine+ with LED pictogram PL/PR



Add-on housing for expanded accommodation for wiring and cable entry



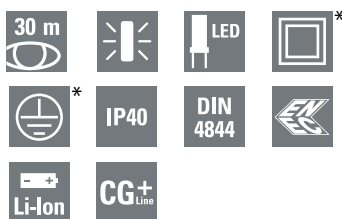
## Ordering details – LED pictograms (fastening set required)

Scope of delivery	Order No.
LED pictogram PL/PR, for GuideLed 10x21/10x22/10x23/10x24, ISO 7010, 20 m	40071354503
LED pictogram PU/PU, for GuideLed 10x21/10x22/10x23/10x24, ISO 7010, 20 m	40071354504
LED pictogram PL/BL, for GuideLed 10x21/10x22/10x23/10x24, ISO 7010, 20 m	40071354505
LED pictogram PR/BL, for GuideLed 10x21/10x22/10x23/10x24, ISO 7010, 20 m	40071354506
LED pictogram PU/BL, for GuideLed 10x21/10x22/10x23/10x24, ISO 7010, 20 m	40071354507
LED pictogram PL/PR-R*, for GuideLed 10x21/10x22/10x23/10x24, ISO 7010, 20 m	40071354508
LED pictogram PL/PR-W*, for GuideLed 10x21/10x22/10x23/10x24, ISO 7010, 20 m	40071354509

\* R = arrow direction room  
W = arrow direction wall

# GuideLed 11821, 11822, 11823, 11824 CGLine+

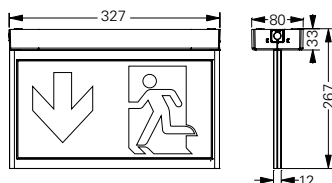
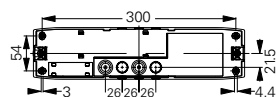
Exit sign luminaire, ceiling mounting



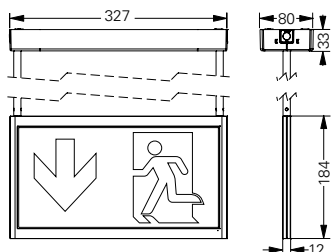
## GuideLed 11821, 11822, 11823, 11824 CGLine+

- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 (50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m<sup>2</sup> according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity  $L_{min}/L_{max} > 0.8$
- 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)

11821 CGLine+ with LED pictogram PL/PR



11822 CGLine+ with LED pictogram PL/PR



Viewing distance	30 m	
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	one sided	100 % at 1 h; 50 % at 3 h; 15 % at 8 h
	double sided	85 % at 1 h; 25 % at 3 h; 8 % at 8 h
Housing material	Polycarbonate, PMMA, sheet steel (recessed housing)	
Housing colour	Light grey RAL 7035	
Weight	1.04 kg (11821 CGLine+)	
	1.14 kg (11822 CGLine+)	
	1.19 kg (11823 CGLine+)	
	1.65 kg (11824 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 <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>	
Connection voltage	220 - 240 V AC, 50/60 Hz	
Power consumption mains operation (apparent power / effective power)	one sided	5.3 VA / 4.7 W
	double sided	6.6 VA / 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	

## Ordering details – mounting set

Scope of delivery	Order No.
Ceiling mounting set 11821 1-8 h/D CGLine+ with canopy, incl. LED supply and CGLine+ technology, 30 m	40071353269
Ceiling mounting set 11822 1-8 h/D CGLine+ with canopy and 0.5 m pendant tube, incl. LED supply and CGLine+ technology, 30 m	40071353270
Ceiling mounting set 11823 1-8 h/D CGLine+ with canopy and 1.5 m pendant tube, incl. LED supply and CGLine+ technology, 30 m	40071353271
Ceiling mounting set 11824 1-8 h/D CGLine+ incl. ceiling recessing housing for ceiling thicknesses 1 to 25 mm and ceiling plate, incl. LED supply and CGLine+ technology, 20 m	40071353272

## Accessories

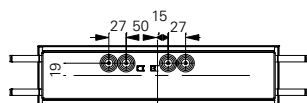
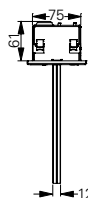
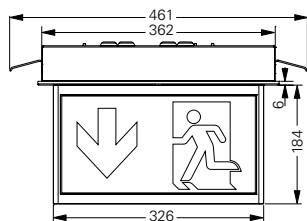
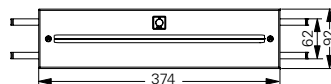
Scope of delivery	Order No.
Chain suspension for GuideLed 10821/11821 1-8 h/D CGLine+	40071353624
Recessing housing for concrete GuideLed 11824 1-8 h/D CGLine+	40071353530

\*11821, -22, -23: Protection class 2  
11824: Protection class 1

# GuideLed 11821, 11822, 11823, 11824 CGLine+

Exit sign luminaire, ceiling mounting

11824 CGLine+ with LED  
pictogram PL/PR



## Ordering details – LED pictograms (fastening set required)

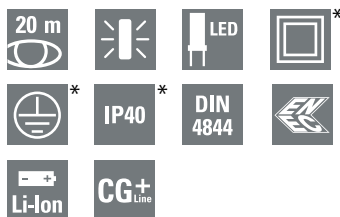
Scope of delivery	Order No.
LED pictogram PL/PR, for GuideLed 11x21/11x22/11x23/11x24, ISO 7010, 30 m	40071354533
LED pictogram PU/PU, for GuideLed 11x21/11x22/11x23/11x24, ISO 7010, 30 m	40071354534
LED pictogram PL/BL, for GuideLed 11x21/11x22/11x23/11x24, ISO 7010, 30 m	40071354535
LED pictogram PR/BL, for GuideLed 11x21/11x22/11x23/11x24, ISO 7010, 30 m	40071354536
LED pictogram PU/BL, for GuideLed 11x21/11x22/11x23/11x24, ISO 7010, 30 m	40071354537
LED pictogram PL/PR-R*, for GuideLed 11x21/11x22/11x23/11x24, ISO 7010, 30 m	40071354538
LED pictogram PL/PR-W*, for GuideLed 11x21/11x22/11x23/11x24, ISO 7010, 30 m	40071354539

\* R = arrow direction room  
W = arrow direction wall



# GuideLed 10825, 10826 CGLine+

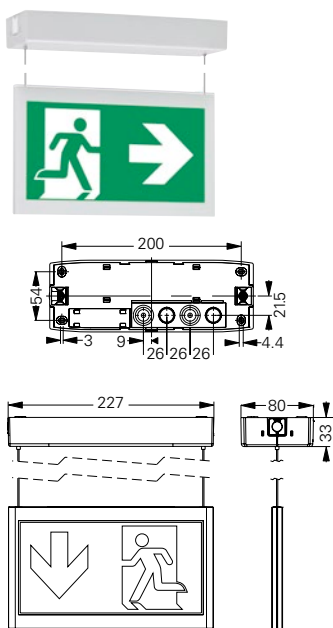
Exit sign luminaire, ceiling mounting with cable



## GuideLed 10825, 10826 CGLine+

- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 (50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m<sup>2</sup> according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity  $L_{min}/L_{max} > 0.8$
- 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)

10825 CGLine+ with LED pictogram PL/PR



Viewing distance	20 m	
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	one sided	100 % at 1 h; 80 % at 3 h; 25 % at 8 h
	double sided	100 % at 1 h; 50 % at 3 h; 15 % at 8 h
Housing material	Polycarbonate, PMMA, sheet steel (10826)	
Housing colour	Light grey RAL 7035	
Weight	0.71 kg (10825 CGLine+) 1.24 kg (10826 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 <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>	
Connection voltage	220 - 240 V AC, 50/60 Hz	
Power consumption mains operation (apparent power / effective power)	one sided	4.8 VA / 4.1 W
	double sided	5.6 VA / 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	

## Ordering details – mounting set

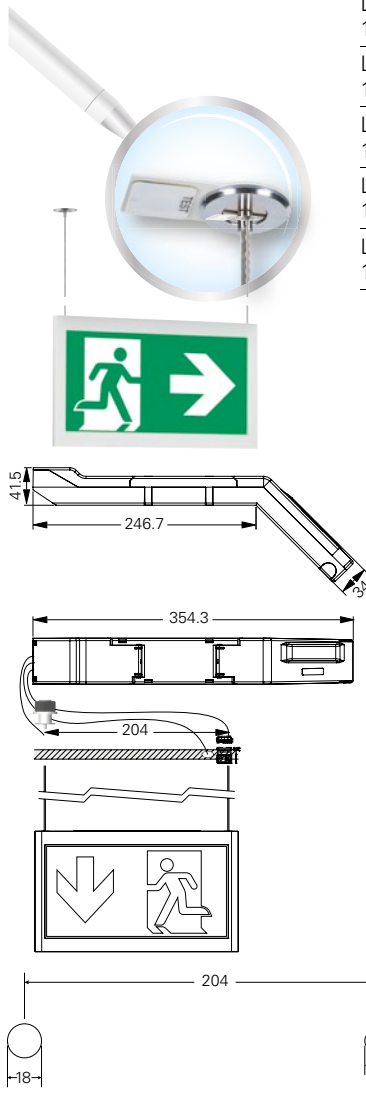
Scope of delivery	Order No.
Cable installation set 10825 1-8h/D CGLine+ with LED supply integrated in canopy and CGLine+ technology, 20 m	40071353268
Cable installation set 10826/11826 1-8h/D CGLine+ with ceiling cable holders, LED supply and CGLine+ technology for mounting in cavity ceiling, 20 m and 30 m	40071353263

\*10825: Protection class 2  
10826: Protection class 1

Degree of protection of the luminaire  
10826: IP40

Degree of protection of the housing: IP20

10826 CGLine+ with LED  
pictogram PL/PR



Hole pattern ceiling 10826 CGLine+

## Ordering details – LED pictograms (fastening set required)

### Scope of delivery

LED pictogram PL/PR, for GuideLed  
10x25/10x26 (cable installation), ISO 7010, 20 m



Order No.

40071354510

LED pictogram PU/PU, for GuideLed  
10x25/10x26 (cable installation), ISO 7010, 20 m



40071354511

LED pictogram PL/BL, for GuideLed  
10x25/10x26 (cable installation), ISO 7010, 20 m



40071354512

LED pictogram PR/BL, for GuideLed  
10x25/10x26 (cable installation), ISO 7010, 20 m



40071354513

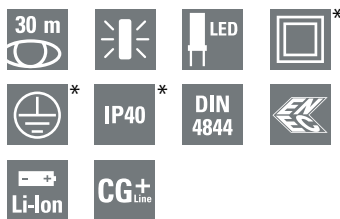
LED pictogram PU/BL, for GuideLed  
10x25/10x26 (cable installation), ISO 7010, 20 m



40071354514

# GuideLed 11825, 11826 CGLine+

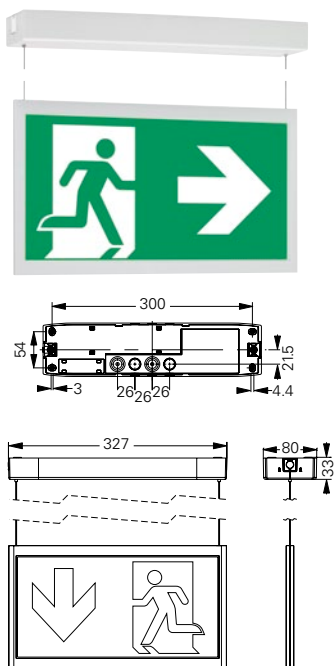
Exit sign luminaire, ceiling mounting with cable



## GuideLed 11825, 11826 CGLine+

- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 (50,000 hours)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m<sup>2</sup> according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity  $L_{min}/L_{max} > 0.8$
- 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)

11825 CGLine+ with LED pictogram PL/PR



Viewing distance	30 m	
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	one sided	100 % at 1 h; 50 % at 3 h; 15 % at 8 h
	double sided	85 % at 1 h; 25 % at 3 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 <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>	
Connection voltage	220 - 240 V AC, 50/60 Hz	
Power consumption mains operation (apparent power / effective power)	one sided	5.3 VA / 4.7 W
	double sided	6.6 VA / 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	

## Ordering details – mounting set

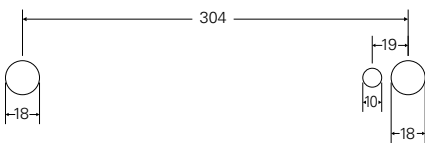
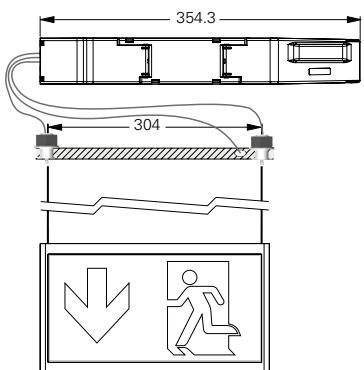
Scope of delivery	Order No.
Cable installation set 11825 1-8h/D CGLine+ with LED supply integrated in canopy and CGLine+ technology, 30 m	40071353273
Cable installation set 10826/11826 1-8h/D CGLine+ with ceiling cable holders, LED supply and CGLine+ technology for mounting in cavity ceiling, 20 m and 30 m	40071353263

\* 11825: Protection class 2  
11826: Protection class 1

Degree of protection of the luminaire  
11826: IP40

Degree of protection of the housing: IP20

11826 CGLine+ with LED  
pictogram PL/PR



Hole pattern ceiling 11826 CGLine+

## Ordering details – LED pictograms (fastening set required)

### Scope of delivery

		Order No.
LED pictogram PL/PR, for GuideLed 11x25/11x26 (cable installation), ISO 7010, 30 m		40071354540
LED pictogram PU/PU, for GuideLed 11x25/11x26 (cable installation), ISO 7010, 30 m		40071354541
LED pictogram PL/BL, for GuideLed 11x25/11x26 (cable installation), ISO 7010, 30 m		40071354542
LED pictogram PR/BL, for GuideLed 11x25/11x26 (cable installation), ISO 7010, 30 m		40071354543
LED pictogram PU/BL, for GuideLed 11x25/11x26 (cable installation), ISO 7010, 30 m		40071354544



# GuideLed SL 13811, 13821 CGLine+

Safety luminaire, ceiling recessed mounting



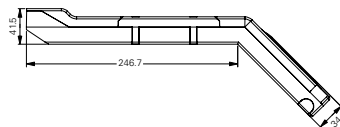
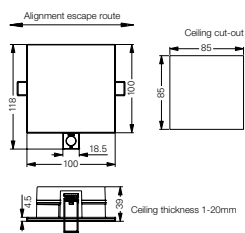
## GuideLed SL 13811, 13821 CGLine+

- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 via high LED service life (50,000 hours)
- Available with special optics for escape route illumination or open-area illumination
- High spacing via double optics technology and highly efficient High Power LEDs
- 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)

13811 CGLine+ with asymmetric optics



13821 CGLine+ with symmetric optics



Required height in cavity ceiling for recessing through ceiling cut-out: 150 mm

Luminous flux (mains operation)	asymmetric optics symmetric optics	210 lm 204 lm
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time		100 % at 1 h; 65 % at 3 h; 25 % at 8 h
Housing material	luminaire module housing	Polycarbonate, aluminium (heat sink) Polycarbonate
Housing colour		White, similar to RAL 9010
Weight		0.96 kg
Type of mounting		Ceiling recessing
Terminals		Through-wiring from mains (L, L', N, PE) to 2.5 mm <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>
Connection voltage		220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power / effective power)		6.9 VA / 6.7 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/4000 mAh with multiple protective circuit
Light source		HighPower LEDs 2 x 1.6 W

## Ordering details

Scope of delivery	Order No.
GuideLed SL ceiling recessed 13811 1-8 h/D CGLine+ with asymmetric optics for escape route illumination, clamping range for ceiling thickness 0 - 20 mm, white RAL 9010, supply electronics in housing with cable strain-relief	40071353275
GuideLed SL ceiling recessed 13821 1-8h/D CGLine+ with symmetric optics for anti-panic/open-area illumination, clamping range for ceiling thickness 0 - 20 mm, white RAL 9010, supply electronics in housing with cable strain-relief	40071353274

\* Degree of protection of the luminaire: IP41  
Degree of protection of the housing: IP20



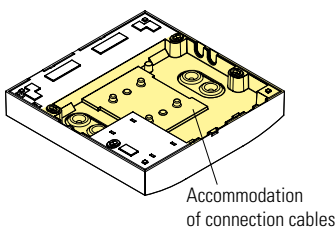
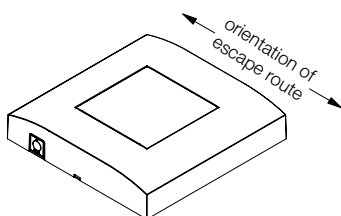
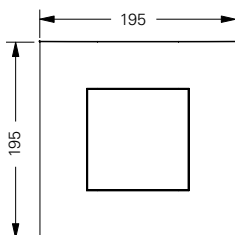
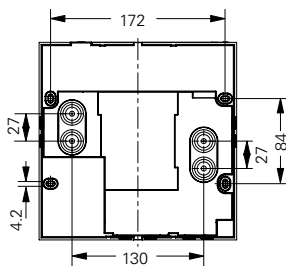
## GuideLed SL 13812, 13822 CGLine+

- LED self contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 via high LED service life (50,000 hours)
- Available with special optics for escape route illumination or open-area illumination
- High spacing via double optics technology and highly efficient High Power LEDs
- 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)

13812 CGLine+ with asymmetric optics



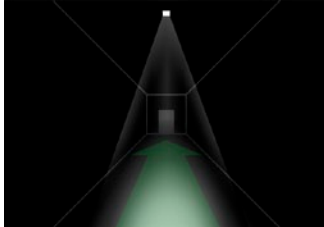
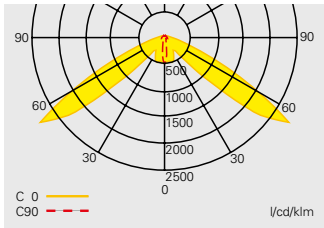
13822 CGLine+ with symmetric optics



Luminous flux (mains operation)	asymmetric optics symmetric optics	210 lm 204 lm
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time		100 % at 1 h; 65 % at 3 h; 25 % at 8 h
Housing material		Polycarbonate, aluminium
Housing colour		White, similar to RAL 9010
Weight		0.86 kg
Type of mounting		Ceiling surface-mounting
Terminals		Through-wiring from mains (L, L', N, PE) to 2.5 mm <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>
Connection voltage		220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power / effective power)		6.9 VA / 6.7 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/4000 mAh with multiple protective circuit
Light source		HighPower LEDs 2 x 1.6 W

## Ordering details

Scope of delivery	Order No.
GuideLed SL ceiling surface-mounted 13812 1-8h/D CGLine+ with asymmetric optics for escape route illumination, white RAL 9010	40071353279
GuideLed SL ceiling surface-mounted 13822 1-8h/D CGLine+ with symmetric optics for anti-panic/open-area illumination, white RAL 9010	40071353278

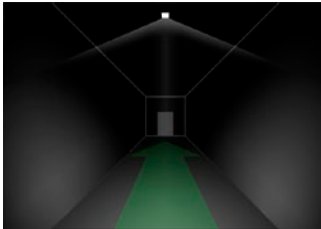
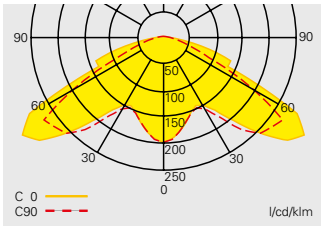


Escape route illumination with asymmetric optics

### Planning help for GuideLed SL CGLine+ with asymmetric optics for E = 1.0 lx (0.5 lx)

Measurement plane 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

Emergency light operating duration	Mounting height in metres	Mounting types	Mounting types				
			L1	L2	L3	L4	
1 h	2.5	Ceiling mounting	1.6 (2.9)	5.8 (7.4)	5.9 ( 6.6)	13.2 (14.7)	
	3.0	Escape route. central	1.3 (3.0)	5.8 (7.9)	6.6 ( 7.5)	15.0 (16.6)	
	3.5		1.1 (2.2)	4.5 (8.2)	7.3 ( 8.3)	16.6 (18.5)	
	4.0		1.1 (1.9)	3.9 (8.4)	8.1 ( 9.0)	18.0 (20.3)	
	4.5		1.1 (1.7)	3.4 (7.3)	8.7 ( 9.7)	19.3 (22.0)	
	5.0		1.1 (1.6)	3.2 (6.3)	9.4 (10.4)	20.9 (23.6)	
	5.5		1.0 (1.5)	3.0 (5.7)	10.0 (11.2)	22.4 (25.0)	
	6.0		1.0 (1.5)	3.0 (5.1)	10.5 (11.9)	23.8 (26.4)	
	6.5		1.0 (1.5)	3.1 (4.7)	3.6 (12.6)	20.6 (27.8)	
	7.0		1.0 (1.5)	3.0 (4.6)	3.5 (13.2)	19.0 (29.3)	
	7.5		0.9 (1.5)	3.0 (4.3)	3.4 (13.8)	19.2 (30.8)	
	8.0		0.9 (1.4)	2.9 (4.2)	3.3 (14.4)	19.6 (32.3)	
	8.5		0.8 (1.4)	2.9 (4.3)	3.1 (14.9)	20.0 (33.7)	
	3 h	2.5	Ceiling mounting	1.0 (2.3)	4.5 (6.4)	5.4 ( 6.2)	12.3 (13.7)
		3.0	Escape route. central	0.9 (1.7)	3.4 (6.7)	6.2 ( 6.9)	13.9 (15.6)
3.5			0.9 (1.4)	2.9 (6.5)	6.9 ( 7.6)	15.3 (17.3)	
4.0			0.9 (1.3)	2.6 (5.1)	7.5 ( 8.4)	16.7 (18.9)	
4.5			0.8 (1.2)	2.4 (4.5)	8.1 ( 9.1)	18.2 (20.4)	
5.0			0.8 (1.2)	2.5 (4.0)	8.7 ( 9.8)	19.6 (21.7)	
5.5			0.8 (1.2)	2.5 (3.7)	2.8 (10.4)	15.6 (23.2)	
6.0			0.8 (1.2)	2.4 (3.5)	2.7 (11.1)	15.5 (24.7)	
6.5			0.7 (1.1)	2.3 (3.4)	2.6 (11.6)	15.8 (26.2)	
7.0			0.5 (1.1)	2.3 (3.5)	2.4 (12.2)	16.3 (27.5)	
8 h	7.5		0.2 (1.1)	2.3 (3.5)	0.7 ( 4.0)	8.1 (23.0)	
	2.5	Ceiling mounting	0.5 (0.8)	1.6 (3.2)	4.7 ( 5.2)	10.4 (11.8)	
	3.0	Escape route. central	0.5 (0.8)	1.5 (2.6)	5.3 ( 5.9)	11.9 (13.2)	
	3.5		0.5 (0.8)	1.5 (2.3)	1.7 ( 6.6)	9.5 (14.6)	
	4.0		0.4 (0.7)	1.4 (2.1)	1.6 ( 7.2)	9.8 (16.1)	
4.5		0.2 (0.7)	1.4 (2.2)	1.3 ( 2.5)	5.1 (15.7)		

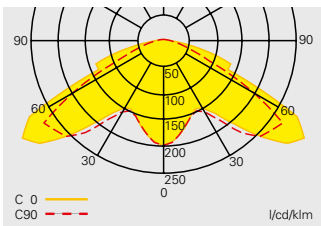


Escape route illumination with symmetric optics

## Planning help for GuideLed SL CGLine+ with symmetric optics for E = 1.0 lx (0.5 lx)

Measurement plane 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

Emergency light operating duration	Mounting height in metres	Mounting types	Mounting types			
			L1	L2	L3	L4
1 h	2.5	Ceiling mounting	3.8 (4.5)	9.0 (10.2)	4.2 (4.9)	9.7 (11.4)
	3.0	Escape route, central	4.1 (5.0)	10.0 (11.5)	4.4 (5.4)	10.9 (12.4)
	3.5		4.0 (5.4)	10.8 (12.7)	4.4 (5.9)	11.8 (13.7)
	4.0		3.4 (5.8)	11.5 (13.7)	2.4 (6.2)	12.3 (14.9)
	4.5		1.7 (5.8)	11.6 (14.6)	1.7 (6.4)	10.9 (15.9)
	5.0		1.3 (5.6)	11.0 (15.4)	1.3 (6.2)	10.3 (16.7)
3 h	5.5		0.6 (5.1)	10.2 (16.1)	0.6 (5.4)	9.2 (17.3)
	2.5	Ceiling mounting	3.3 (4.1)	8.2 ( 9.5)	3.6 (4.5)	8.9 (10.2)
	3.0	Escape route, central	3.1 (4.5)	9.0 (10.6)	3.4 (4.9)	9.7 (11.5)
	3.5		1.5 (4.7)	9.4 (11.5)	1.5 (5.1)	9.0 (12.6)
	4.0		1.0 (4.6)	8.9 (12.4)	1.1 (5.0)	8.3 (13.5)
8 h	4.5		0.4 (4.0)	8.0 (13.1)	0.4 (3.0)	6.1 (14.0)
	2.5	Ceiling mounting	0.6 (2.8)	5.5 ( 7.7)	0.7 (3.1)	5.2 ( 8.4)
		Escape route, central				



Escape route illumination with symmetric optics

## Planning help for GuideLed SL CGLine+ with symmetric optics for E = 1.0 lx (0.5 lx)

Measurement plane 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

Emergency light operating duration	Mounting height in metres	Mounting types	Mounting types			
			L1	L2	L3	L4
1 h	2.5	Ceiling mounting	3.4 (4.3)	8.8 (10.2)	3.2 (3.9)	8.1 ( 9.0)
	3.0	Room illumination	3.4 (4.5)	9.4 (11.3)	3.5 (4.2)	9.4 (10.3)
	3.5		3.4 (4.4)	10.3 (12.5)	3.5 (4.2)	10.2 (11.3)
	4.0		3.4 (4.4)	11.0 (13.5)	3.4 (4.2)	10.9 (12.3)
	4.5		0.7 (4.9)	11.3 (13.9)	1.6 (4.7)	11.5 (13.7)
	5.0		0.6 (5.0)	10.5 (14.7)	1.1 (4.7)	11.4 (14.5)
	5.5		0.5 (4.4)	10.1 (15.5)	0.5 (4.5)	11.3 (15.1)
	6.0		0.7 (2.4)	10.8 (15.9)	0.5 (2.5)	10.0 (15.9)
	6.5		0.5 (0.7)	9.9 (15.6)	0.5 (1.9)	10.3 (16.2)
	7.0		0.5 (0.7)	9.1 (14.9)	0.5 (1.6)	9.9 (16.1)
3 h	2.5	Ceiling mounting	2.9 (3.4)	7.7 ( 9.5)	2.9 (3.3)	7.7 ( 8.3)
	3.0	Room illumination	3.0 (4.0)	8.5 (10.4)	2.9 (3.5)	8.5 ( 9.5)
	3.5		1.4 (4.0)	9.2 (11.0)	2.0 (3.8)	9.1 (10.8)
	4.0		0.5 (4.1)	8.5 (11.7)	1.1 (4.0)	9.2 (11.7)
	4.5		0.7 (4.0)	8.2 (12.4)	0.5 (3.4)	8.9 (12.4)
8 h	5.0		0.7 (1.4)	8.3 (13.0)	0.5 (1.9)	8.3 (13.0)
	2.5	Ceiling mounting	0.6 (2.4)	5.2 ( 7.2)	0.9 (2.7)	5.7 ( 7.3)
	3.0	Room illumination	0.7 (1.4)	5.4 ( 8.0)	0.5 (2.1)	5.0 ( 7.9)
	3.5		0.5 (0.7)	4.6 ( 7.5)	0.5 (0.9)	4.9 ( 8.0)
	4.0		0.6 (0.5)	4.0 ( 7.0)	0.5 (0.5)	3.9 ( 8.0)
	4.5		0.7 (0.6)	2.4 ( 7.2)	0.5 (0.5)	2.5 ( 7.2)
	5.0		0.5 (0.5)	1.4 ( 6.4)	0.5 (0.5)	1.4 ( 6.9)



# GuideLed SL 13851, 13852 CGLine+

Ceiling recessing, ceiling surface-mounting for illuminance of 5 lx vertically

## Requirements of EN 1838: illuminance of 5 lx for safety equipment

The aim of emergency lighting is to enable people to exit a room or building safely. It must also ensure that fire fighting and safety equipment can be easily found and operated when needed. This equipment includes (but not exclusively):

- First aid stations
- All fire fighting equipment and all alarm devices

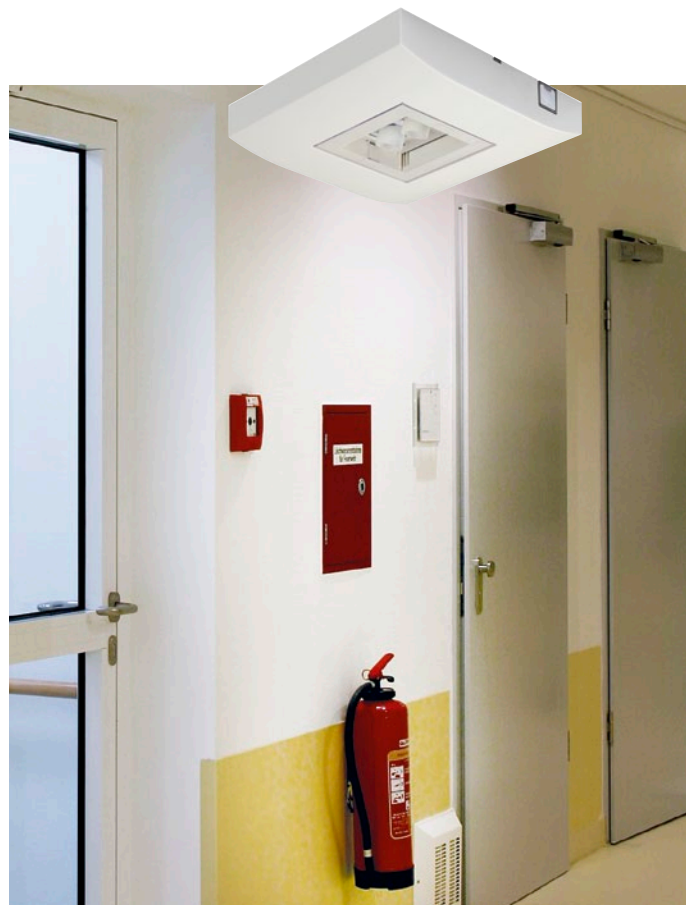
Lighting is required near each first aid kit, near each alarm and piece of fire fighting equipment, as well as each sign indicating a fire alarm system. In accordance with EN 1838, „near“ generally means a distance of no greater than 2 metres, measured horizontally (this corresponds with Distance a in the diagram below).

The required level of illuminance on the equipment is 5 lx measured vertically- i.e. perpendicular to the usual horizontal illuminance measurements on one level.

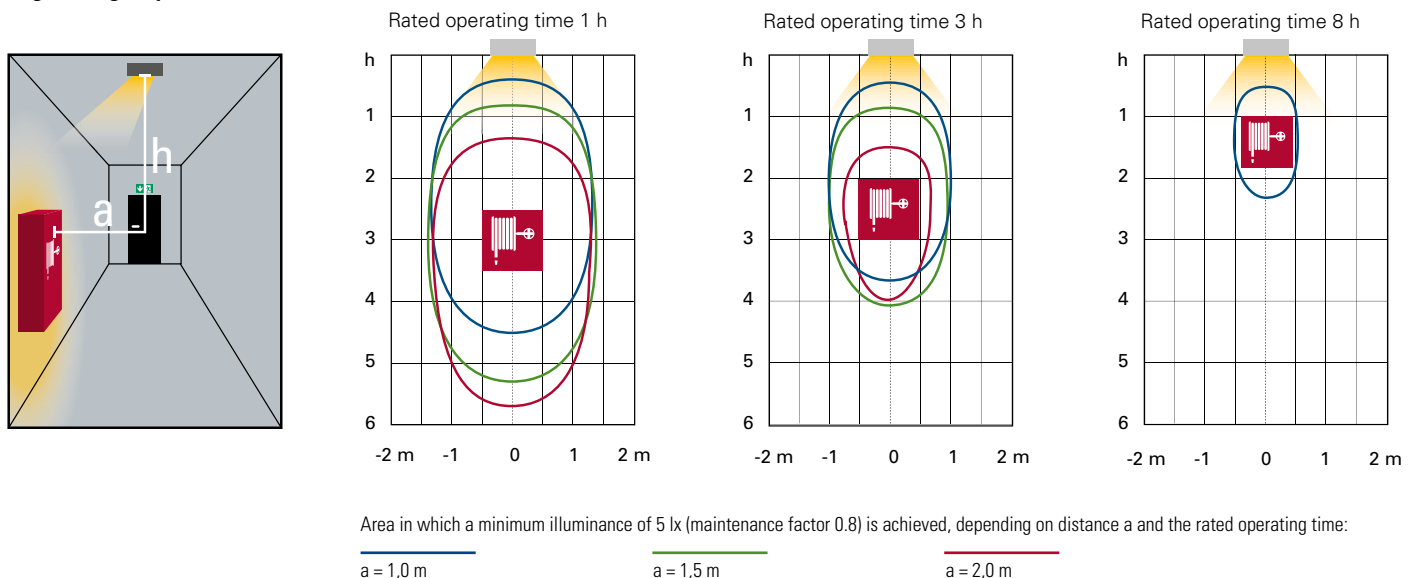
In comparison to the escape route requirement for 1 lx horizontally, different requirements apply in this situation for the light distribution from the safety luminaires, due to the flatter light angle of incidence.

### GuideLed SL 13851 and 13852 CGLine+ meet the specific requirements of EN 1838

In order to meet the requirements of EN 1838, the new GuideLed SL 13851 and 13852 CGLine+ have special optics to guarantee the required illuminance of 5 lx vertically over a wide area. Hence mounting at heights of up to 5.6 m, and a breadth of illumination of up to 2.8 metres, are possible.

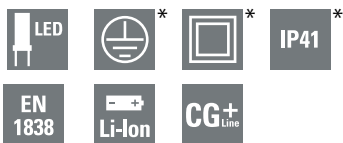


### Engineering help, GuideLed SL 13851 and 13852 CGLine+



# GuideLed SL 13851, 13852 CGLine+

Ceiling recessing, ceiling surface-mounting for illuminance of 5 lx vertically



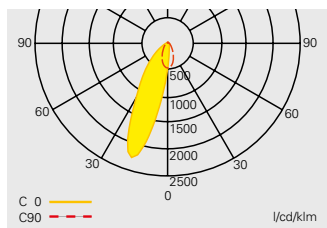
## GuideLed SL 13851, 13852 CGLine+

- LED self-contained safety luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 via high LED service life (50,000 hours)
- Special asymmetric optics for illumination of 5 lx vertically for first aid stations, fire fighting equipment and safety equipment acc. to EN 1838
- 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)

GuideLed SL 13851 CGLine+



GuideLed SL 13852 CGLine+



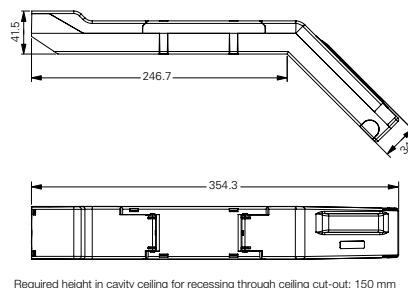
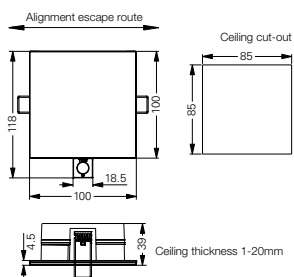
Light distribution curve  
GuideLed SL 13851, 13852 CGLine+

Luminous flux $\Phi_N$ (mains operation)	310 lm
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	100 % at 1 h; 65 % at 3 h; 25 % at 8 h
Housing material	Polycarbonate, aluminium
Housing colour	White, similar to RAL 9010
Weight	0.62 kg (13851 CGLine) 0.86 kg (13852 CGLine)
Type of mounting	Ceiling recessing, ceiling surface-mounting
Terminals	Through-wiring from mains (L, L', N, PE) to 2.5 mm <sup>2</sup> CGLine Bus through wiring to 1.5 mm <sup>2</sup>
Connection voltage	220- 240 V AC, 50 Hz
Power consumption mains operation (apparent power/effective power)	6.9 VA / 6.7 W
Permissible ambient temperature	Maintained mode -5 °C bis +30 °C Non-maintained mode 0 °C bis +35 °C
Battery	Lithium-Ion 3.7 V/4000 mAh with multiple protective circuit
Light source	HighPower LEDs 2 x 1.6 W

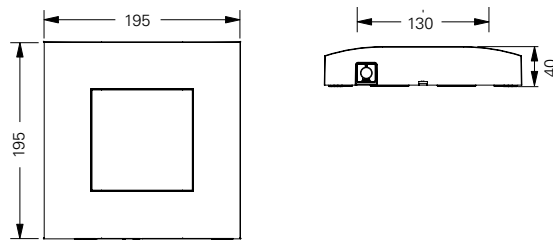
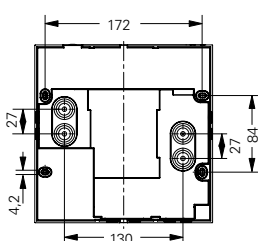
## Ordering details

Scope of supply	Order No.
GuideLed SL 13851 1-8h/D CGLine+, ceiling recessed with asymmetric optics for illuminance of 5 lx vertically, clamping range for ceiling thickness 0-20 mm	40071353280
GuideLed SL 13852 1-8h/D CGLine+, ceiling surface-mounted with asymmetric optics for illuminance of 5 lx vertically	40071353282

GuideLed SL 13851 CGLine+



GuideLed SL 13852 CGLine+



\* 13851: Protection class 2  
13852: Protection class 1  
Degree of protection of the luminaire  
13851: IP41  
Degree of protection of the housing: IP20

# 3583 LED CGLine+

Safety luminaire, ceiling recessed mounting



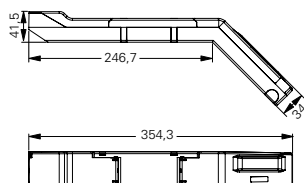
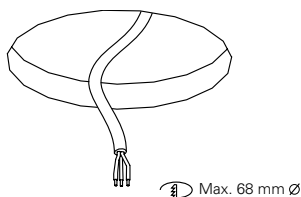
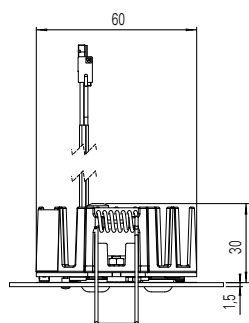
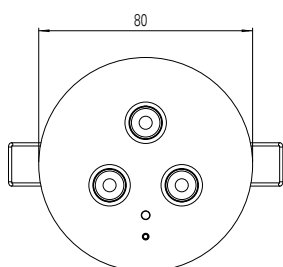
## 3583 1-8 h/D LED CGLine+

- Self-contained safety luminaire with LED technology for recessed mounting with round bezel with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h 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 via high LED service life (50,000 hours)
- 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)
- Common ceiling cut-out diameter of 68 mm

3583 1-8 h / D LED CGLine+



Dimensions in mm



Luminous flux $\Phi_N$	385 lm
Luminous flux $\Phi_E/\Phi_N$ at the end of rated operating time	100 % at 1 h; 70 % at 3 h; 25 % at 8 h
Housing material	Bezel: sheet steel Module: Polycarbonate
Housing colour	white sim. RAL 9010
Weight	Luminaire: 0.16 kg Module: 0.35 kg
Type of mounting	Recessed ceiling mounting
Connection terminals	Through-wiring from mains (L, L', N, PE) to 2.5 mm <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>
Connection voltage	220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power / effective power)	7 VA / 6.6 W
Permissible temperature range	Maintained mode -5 °C to +30 °C Non-maintained mode 0 °C to +35 °C
Battery	Lithium-Ionen 3.7 V / 4000 mAh with multiple protective circuit
Light source	HighPower LEDs 3 x 1 W

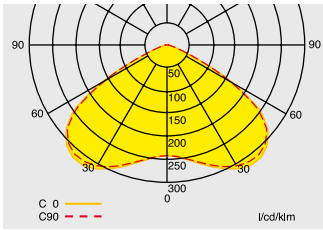
## Ordering details

### Scope of delivery

3583 1-8 h/D LED CGLine+ recessed ceiling-mounted with 3 LEDs for escape route illumination, clamping range for ceiling thickness 0- 20 mm, white RAL 9010, supply electronics in housing with cable strain-relief

### Order No.

40071353365



Light distribution curve  
3583 1-8 h/D LED CGLine+

## Escape route centre

### Planning help for 3583 1-8 h/D LED CGLine+ for E = 1.0 lx (0.5 lx)

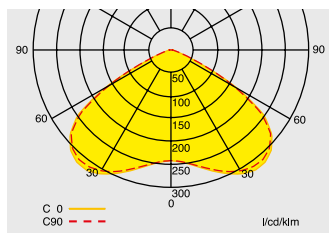
Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

Duration of emergency operation	Mounting height [m]	Types of mounting	Types of mounting			
			L1	L2	L3	L4
1 h	2.5	Ceiling mounting	4.3 (5.0)	10.0 (11.4)	4.3 (5.0)	10.0 (11.4)
	3.0	Escape route centre	4.7 (5.6)	11.2 (12.8)	4.8 (5.6)	11.2 (12.8)
	3.5		5.1 (6.1)	12.2 (14.1)	5.1 (6.1)	12.2 (14.1)
	4.0		5.3 (6.5)	13.0 (15.3)	5.3 (6.5)	13.1 (15.3)
	4.5		5.5 (6.9)	13.8 (16.4)	5.5 (6.9)	13.8 (16.4)
	5.0		5.6 (7.2)	14.4 (17.4)	5.6 (7.2)	14.5 (17.4)
	5.5		5.6 (7.4)	14.9 (18.2)	5.6 (7.5)	15.0 (18.2)
	6.0		5.6 (7.6)	15.3 (19.0)	5.6 (7.7)	15.3 (19.0)
	6.5		5.5 (7.8)	15.6 (19.7)	5.5 (7.8)	15.6 (19.7)
	7.0		5.3 (7.9)	15.7 (20.3)	5.3 (7.9)	15.8 (20.4)
3 h	7.5		5.0 (7.9)	15.8 (20.8)	5.0 (7.9)	15.9 (20.9)
	8.0		4.6 (7.9)	15.8 (21.2)	4.6 (7.9)	15.9 (21.3)
	8.5		3.8 (7.9)	15.7 (21.6)	3.8 (7.9)	15.7 (21.7)
	9.0		2.2 (7.8)	15.6 (21.9)	2.2 (7.8)	15.6 (22.0)
	2.5	Ceiling mounting	3.9 (4.6)	9.2 (10.5)	3.9 (4.6)	9.2 (10.5)
	3.0	Escape route centre	4.2 (5.1)	10.1 (11.8)	4.2 (5.1)	10.2 (11.8)
	3.5		4.4 (5.5)	10.9 (12.9)	4.4 (5.5)	11.0 (12.9)
	4.0		4.5 (5.8)	11.6 (13.9)	4.5 (5.8)	11.6 (14.0)
	4.5		4.5 (6.0)	12.1 (14.8)	4.5 (6.1)	12.1 (14.8)
	5.0		4.5 (6.2)	12.4 (15.5)	4.5 (6.2)	12.5 (15.6)
8 h	5.5		4.3 (6.3)	12.6 (16.2)	4.3 (6.4)	12.7 (16.2)
	6.0		4.0 (6.4)	12.7 (16.7)	4.1 (6.4)	12.8 (16.8)
	6.5		3.6 (6.4)	12.8 (17.2)	3.6 (6.4)	12.8 (17.2)
	7.0		2.7 (6.3)	12.6 (17.5)	2.8 (6.3)	12.6 (17.6)
	2.5	Ceiling mounting	2.8 (3.6)	7.2 ( 8.7)	2.8 (3.6)	7.2 ( 8.7)
	3.0	Escape route centre	2.8 (3.8)	7.6 ( 9.5)	2.8 (3.8)	7.7 ( 9.5)
	3.5		2.6 (3.9)	7.9 (10.1)	2.6 (3.9)	7.9 (10.2)
	4.0		2.3 (4.0)	7.9 (10.6)	2.3 (4.0)	7.9 (10.7)
	4.5		1.1 (3.9)	7.8 (10.9)	1.2 (3.9)	7.8 (11.0)



# 3583 LED CGLine+

Safety luminaire, ceiling recessed mounting



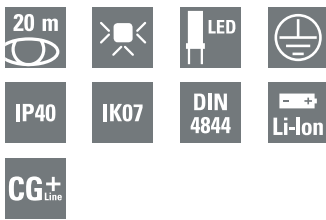
Light distribution curve  
3583 1-8 h/D LED CGLine+

## Room illumination

### Planning help for 3583 1-8 h/D LED CGLine+ for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

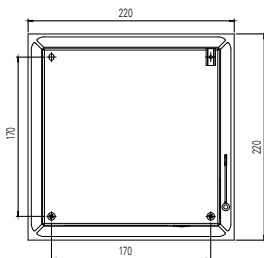
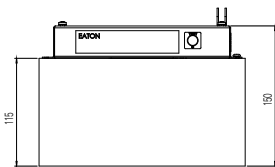
Duration of emergency operation	Mounting height [m]	Types of mounting	Types of mounting			
			L1	L2	L3	L4
1 h	2.5	Ceiling mounting	3.4 (3.9)	8.1 ( 9.1)	3.4 (3.9)	8.0 ( 9.1)
	3.0	Room illumination	3.4 (4.3)	9.0 (10.3)	3.8 (4.3)	9.0 (10.3)
	3.5		4.1 (4.4)	10.0 (11.4)	4.0 (4.6)	9.9 (11.3)
	4.0		4.2 (5.0)	10.8 (12.4)	4.2 (5.0)	10.8 (12.3)
	4.5		4.3 (5.4)	11.6 (13.3)	4.2 (5.3)	11.6 (13.2)
	5.0		4.3 (5.4)	12.3 (14.2)	4.3 (5.5)	12.3 (14.2)
	5.5		4.4 (5.4)	12.9 (15.0)	4.3 (5.7)	12.9 (15.1)
	6.0		4.3 (5.8)	13.5 (15.9)	4.2 (5.7)	13.4 (15.8)
	6.5		4.1 (5.9)	14.0 (16.6)	4.0 (5.8)	14.0 (16.6)
	7.0		4.0 (6.0)	14.5 (17.3)	3.8 (5.9)	14.4 (17.3)
	7.5		3.7 (6.0)	14.9 (18.0)	3.5 (5.9)	14.8 (17.9)
	8.0		3.4 (6.0)	15.2 (18.6)	3.2 (5.8)	15.1 (18.5)
	8.5		2.9 (5.8)	15.5 (19.1)	2.7 (5.7)	15.4 (19.1)
	9.0		2.4 (5.7)	15.7 (19.6)	2.3 (5.6)	15.6 (19.6)
	3 h	2.5	Ceiling mounting	3.2 (3.4)	7.4 ( 8.5)	3.2 (3.6)
3.0		Room illumination	3.4 (4.0)	8.4 ( 9.5)	3.3 (4.0)	8.3 ( 9.5)
3.5			3.4 (4.3)	9.2 (10.5)	3.4 (4.2)	9.1 (10.4)
4.0			3.4 (4.4)	9.9 (11.4)	3.5 (4.5)	9.8 (11.4)
4.5			3.4 (4.4)	10.5 (12.3)	3.5 (4.6)	10.5 (12.2)
5.0			3.4 (4.4)	11.0 (13.0)	3.5 (4.8)	11.0 (13.0)
5.5			3.4 (4.4)	11.5 (13.8)	3.3 (4.8)	11.5 (13.7)
6.0			3.1 (4.9)	11.9 (14.4)	3.0 (4.9)	11.9 (14.4)
6.5			2.8 (4.9)	12.3 (15.0)	2.6 (4.8)	12.2 (15.0)
7.0		2.3 (4.4)	12.5 (15.6)	2.2 (4.6)	12.5 (15.5)	
8 h	2.5	Ceiling mounting	2.4 (3.0)	6.1 ( 7.1)	2.4 (3.0)	6.1 ( 7.0)
	3.0	Room illumination	2.4 (3.1)	6.7 ( 7.9)	2.3 (3.1)	6.7 ( 7.9)
	3.5		2.2 (3.2)	7.2 ( 8.7)	2.2 (3.1)	7.2 ( 8.6)
	4.0		2.0 (3.2)	7.6 ( 9.3)	1.8 (3.1)	7.5 ( 9.2)
	4.5		1.4 (3.1)	7.8 ( 9.8)	1.3 (3.0)	7.8 ( 9.8)



Exit Cube 33822 1-8h/D LED CGLine+



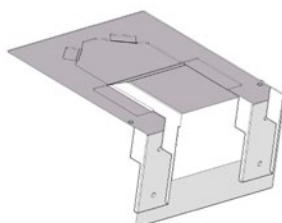
Dimensions in mm



Replacement escape sign cube



Wall bracket



## Exit Cube 33822 LED CGLine+

- Exit sign cube with LED Technology for large, wide areas, e.g. warehouses or retail areas
- LED self-contained luminaire with automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h operation
- For autonomous installation or connection to the CGLine+ monitoring system
- Robust design with impact-resistance of IK07
- Environmentally-friendly due to modern lithium ion technology
- Low operating costs via low connected load
- Minimum maintenance effort via use of LEDs with high service life (50.000 hours)
- Modular design of the polycarbonate cube enables simple and safe mounting by just sliding cube onto installed luminaire
- Easy and flexible mounting options with space to land cables- Ceiling, wall, cable and chain.
- Optimal perceptibility due to high luminance of the white contrasting colour (>500 cd/m<sup>2</sup>) acc. DIN 4844-1 / ISO 3864-1 (for bright environments) and high uniformity L<sub>min</sub>/L<sub>max</sub> > 0,4 (in mains operation)
- 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)

Viewing Distance	20 m
Luminous flux $\Phi_E/\Phi_N$ at the end of rated operating time	87 % at 1 h; 45 % at 3 h, 15 % at 8 h
Housing material	Cube: Polycarbonate; Enclosure: Stainless steel
Housing colour	White RAL 9010
Weight	enclosure 1.1 kg cube: 0.6 kg
Type of mounting	Ceiling, Wall mounting
Connection terminals	Durchgangsverdrahtung Netz (L, L', N, PE) bis 2,5 mm <sup>2</sup> Durchgangsverdrahtung CGLine+ Bus bis 1,5 mm <sup>2</sup>
Power input	220 - 240 V AC, 50/60 Hz
Power consumption mains operation (apparent power / effective power)	8.8 VA / 8.3 W
Permissible temperature range	Maintained mode -5 °C bis +30 °C Non-maintained mode 0 °C bis +35 °C
Battery	Lithium-Ionen 3.7 V / 4000 mAh with multiple protective circuit
Light source	HighPower LEDs 4 x 1 W

## Ordering details

Scope of delivery	Order No
Exit Cube 33822 1-8h/D LED CGLine+: Enclosure and exit sign cube, for 20 m viewing distance with LED Supply and CGLine+ Technology silkscreened pictogram set (arrow left, right, down) acc. to ISO 7010	40071353420



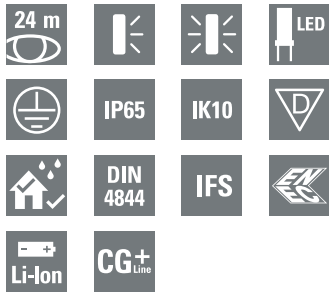
## Ordering details accessories

Scope of delivery	Order No
Wall bracket incl. attachments	40071353444
Chain mounting kit with 4 eyelets (chain not included)	40071353457
Cable mounting kit with 4 fasteners and cables, adjustable hanging height (max 1.5 m)	40071353443
Replacement escape sign cube (20 m viewing distance) silkscreened pictogram set (arrow left, right, down) acc. to ISO 7010	40071354450



# Atlantic LED CGLine+

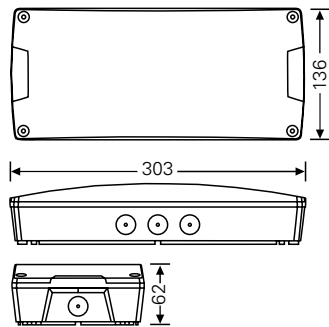
Exit sign luminaire, wall or ceiling mounting



## Atlantic LED CGLine+

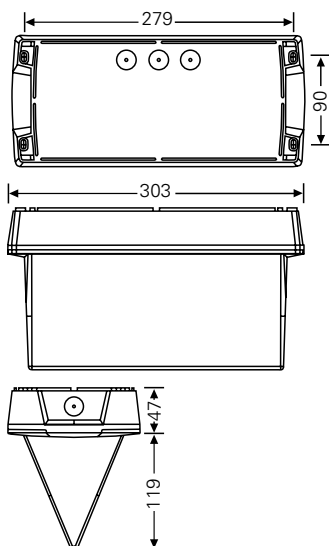
- LED self-contained luminaire with high protection class (IP65) for indoor and outdoor use
- With automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h operation
- For autonomous installation or connection to the CGLine+ monitoring system
- Robust construction from aluminium diecast and high impact resistant cover made of polycarbonate
- Suitable for use in food processing industry acc. IFS
- Suitable for operational areas with fire hazard (D mark)
- Environmentally-friendly due to modern lithium ion technology
- Optional with self-regulating battery heater for use at low temperature up to -20°C
- Low operating costs via low connected load
- Minimum maintenance effort via use of LEDs with high service life (50.000 hours)
- 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)

Atlantic LED S CGLine+



Viewing distance	24 m	
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	100 % at 1 h; 65% at 3 h; 25% at 8 h	
Housing material	Polycarbonate, Aluminium	
Housing colour	grey	
Weight	Atlantic LED S 1.54 kg Atlantic LED D 1.74 kg	
Type of mounting	Wall and ceiling mounting	
Connection terminals	Through-wiring from mains (L, L', N, PE) to 2.5 mm <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>	
Connection voltage	220 - 240 V AC, 50/60 Hz	
Power consumption mains operation (max.) (apparent power / effective power)	without heater: 7.2 VA / 7.0 W with heater: 9.4 VA / 9.3 W	
Permissible ambient temperature	without heater	with heater
Maintained mode	- 5 °C to +30 °C	- 20 °C to +30 °C
Non-maintained mode	0 °C to +35 °C	- 20 °C to +35 °C
Battery	Lithium ion 3.7 V / 4000 mAh with multiple protective circuit	
Light source	HighPower LEDs 2 x 1.6 W	

Atlantic LED D CGLine+

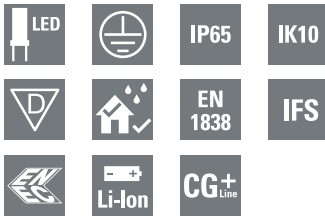


## Ordering details

Scope of delivery	Order No.
Escape sign luminaire Atlantic LED S 1-8h/D CGLine+, single sided, Including two cable glands, without pictogram	40071354870
Escape sign luminaire Atlantic LED D 1-8h/D CGLine+, double sided, Including two cable glands, without pictogram	40071354871
Escape sign luminaire Atlantic LED S 1-8h/D CGLine+ H, single sided, Including two cable glands, without pictogram, with battery heater for low ambient temperature up to -20°C	40071354875
Escape sign luminaire Atlantic LED D 1-8h/D CGLine+ H, double sided, Including two cable glands, without pictogram, with battery heater for low ambient temperature up to -20°C	40071354876

## Accessories

Scope of delivery	Order No.	Scope of delivery	Order No.
Pictograms for Atlantic S			
PR ISO	155-000-011	PU ISO	155-000-013
PL ISO	155-000-012		
Pictograms for Atlantic D (2 x required)			
PR ISO	155-000-211	PU ISO	155-000-213
PL ISO	155-000-212	BL	155-000-209



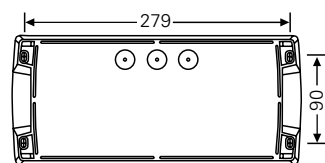
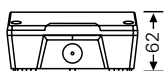
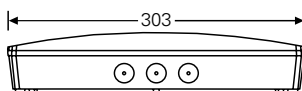
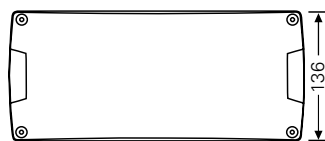
## Atlantic LED / Outdoor Wall CGLine+

- LED self-contained luminaire with high protection class (IP65) for indoor and outdoor use
- With automatic test for reduced inspection effort
- Universal use for maintained and non-maintained operation and for 1 h, 3 h or 8 h operation
- For autonomous installation or connection to the CGLine+ monitoring system
- Robust construction from aluminium diecast and high impact resistant cover made of polycarbonate
- Suitable for use in food processing industry acc. IFS (Atlantic LED R and Atlantic LED O)
- Suitable for operational areas with fire hazard (D mark)
- Environmentally-friendly due to modern lithium ion technology
- Optional with self-regulating battery heater for use at low temperature up to -20°C
- Low operating costs via low connected load
- Minimum maintenance effort via use of LEDs with high service life (50,000 hours)
- Available with special optics for escape route illumination or wide area illumination
- High spacing by double optics technology and highly efficient HighPower LEDs
- 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)

Atlantic LED R CGLine+



Atlantic LED O CGLine+



Luminous flux	Asymmetric optics	225 lm
	Symmetric optics	220 lm
Luminous flux $\Phi_E/\Phi_N$ at end of rated operating time	100 % at 1h; 65% at 3 h; 25% at 8 h	
Housing material	Polycarbonate, Aluminium	
Housing colour	grey	
Weight	Atlantic LED	1.54 kg
	Outdoor Wall	3.00 kg
Type of mounting	Wall and ceiling mounting	
Connection terminals	Through-wiring from mains (L, L', N, PE) to 2.5 mm <sup>2</sup> CGLine+ bus through-wiring to 1.5 mm <sup>2</sup>	
Connection voltage	220 - 240 V AC, 50/60 Hz	
Battery	Lithium ion 3.7 V/4000 mAh with multiple protective circuit	
Power consumption mains operation (max.) (apparent power / effective power)	without heater	7.2 VA / 7.0 W
	with heater	9.2 VA / 9.3 W
Permissible ambient temperature	without heater	with heater
Maintained mode	- 5 °C bis +30 °C	- 20 °C bis +30 °C
Non-maintained mode	0 °C bis +35 °C	- 20 °C bis +35 °C
Light source	HighPower LEDs 2 x 1.6 W	

## Ordering details

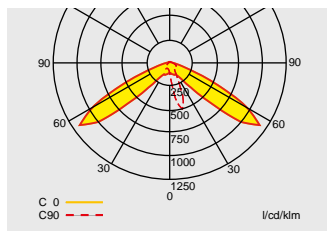
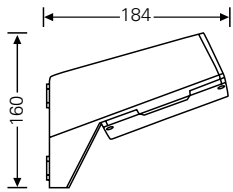
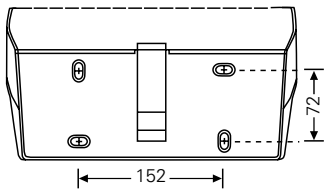
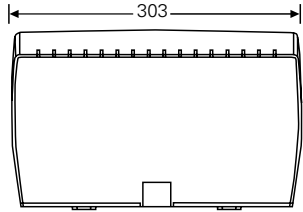
Scope of delivery	Order No.
Safety luminaire Atlantic LED R 1-8h/D CGLine+, with asymmetric optics for escape route illumination, including two cable glands	40071354872
Safety luminaire Atlantic LED O 1-8h/D CGLine+, with symmetric optics for anti-panic / open area illumination, including two cable glands	40071354873
Safety luminaire Outdoor Wall 1-8h/D CGLine+, with asymmetric optics for escape route illumination	40071354874
Safety luminaire Atlantic LED R 1-8h/D CGLine+ <b>H</b> , with asymmetric optics for escape route illumination, including two cable glands, with battery heater for low ambient temperature up to -20°C	40071354877
Safety luminaire Atlantic LED O 1-8h/D CGLine+ <b>H</b> , with symmetric optics for anti-panic / open area illumination, including two cable glands, with battery heater for low ambient temperature up to -20°C	40071354878
Safety luminaire Outdoor Wall 1-8h/D CGLine+ <b>H</b> , with asymmetric optics for escape route illumination, with battery heater for low ambient temperature up to -20°C	40071354879



# Atlantic LED / Outdoor Wall CGLine+

Safety luminaire, wall or ceiling mounting

Outdoor Wall CGLine+



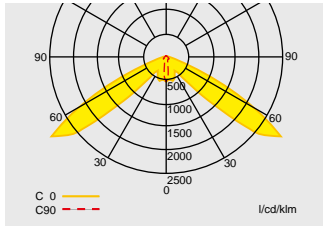
Outdoor Wall CGLine+  
with asymmetric optics

## Planning help for Outdoor Wall – asymmetric optics for E = 1.0 lx (0.5 lx)

Measurement plane: 0.02 m, maintenance factor MF = 80 %, battery operation

Duration of emergency operation	Mounting high (m)	Types of mounting	L1		L2		D
			Diagram	Diagram	Diagram	Diagram	
1 h	2.0	Wall mounting	4.5	11.4	0 - 2.0		
	2.5		5.3	12.2	0 - 2.1		
	3.0		5.8	13.8	0 - 2.1		
	3.5		6.6	15.3	0 - 2.2		
	4.0		7.0	16.7	0 - 2.3		
	4.5		7.6	18.1	0 - 2.2		
	5.0		8.3	19.2	0 - 2.1		
	5.5		8.6	18.9	0.7 - 2.0		
	6.0		3.0	16.9	1.0 - 1.9		
	3 h	2.0	Wall mounting	4.2	9.5		0 - 1.6
2.5			4.8	11.0	0 - 1.7		
3.0			5.4	12.4	0 - 1.7		
3.5			5.8	13.3	0 - 1.7		
4.0			6.2	14.0	0.4 - 1.6		
4.5			2.1	12.5	0.7 - 1.5		
8 h	2.0	Wall mounting	3.5	8.0	0.2 - 1.2		
	2.5		3.9	8.6	0.3 - 1.0		
	2.8		1.4	8.3	0.5 - 1.0		

Atlantic LED R CGLine+



Atlantic R CGLine+  
with asymmetric optics

## Planning help for Atlantic LED R – asymmetric optics for E = 1.0 lx (0.5 lx)

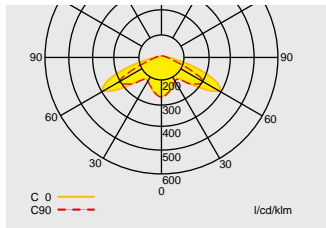
Measurement plane: 0.02 m, maintenance factor MF = 80 %, battery operation

Duration of emergency operation	Mounting high (m)	Types of mounting	Types of mounting				
			L1	L2	L3	L4	
<b>1 h</b>	2.5	Ceiling mounting	6.0 ( 6.5)	13.0 (14.2)	2.0 (3.0)	6.1 (7.3)	
	3.0	Escape route, central	6.8 ( 7.5)	15.0 (16.2)	1.7 (3.2)	6.1 (8.0)	
	3.5		7.5 ( 8.4)	16.8 (18.3)	1.4 (2.8)	5.6 (8.5)	
	4.0		8.3 ( 9.2)	18.5 (20.3)	1.2 (2.5)	5.0 (8.7)	
	4.5		9.0 (10.0)	20.0 (22.2)	1.1 (2.2)	4.4 (8.6)	
	5.0		9.6 (10.7)	21.5 (24.0)	1.1 (1.9)	3.9 (7.9)	
	5.5		10.3 (11.5)	23.0 (25.7)	1.1 (1.8)	3.6 (7.2)	
	6.0		10.8 (12.2)	24.4 (27.2)	1.0 (1.6)	3.3 (6.6)	
	6.5		3.6 (12.9)	24.2 (28.8)	1.0 (1.6)	3.3 (6.0)	
	7.0		3.5 (13.6)	21.9 (30.2)	1.0 (1.6)	3.3 (5.5)	
	7.5		3.4 (14.2)	21.8 (31.7)	1.0 (1.6)	3.2 (5.2)	
	8.0		3.3 (14.8)	22.0 (33.2)	0.9 (1.5)	3.1 (4.9)	
	8.5		3.1 (15.3)	22.5 (34.6)	0.8 (1.5)	3.0 (4.6)	
	<b>3 h</b>	2.5	Ceiling mounting	5.6 ( 6.2)	12.4 (13.4)	1.3 (2.6)	4.9 (6.5)
		3.0	Escape route, central	6.3 ( 7.1)	14.2 (15.5)	1.0 (2.1)	4.2 (7.0)
3.5			7.1 ( 7.9)	15.8 (17.4)	0.9 (1.8)	3.7 (7.0)	
4.0			7.7 ( 8.6)	17.2 (19.2)	0.9 (1.6)	3.2 (6.4)	
4.5			8.3 ( 9.4)	18.7 (20.9)	0.9 (1.4)	2.8 (5.7)	
5.0			8.9 (10.1)	20.1 (22.5)	0.8 (1.3)	2.6 (5.1)	
5.5			2.9 (10.7)	17.7 (23.9)	0.8 (1.3)	2.6 (4.6)	
6.0			2.7 (11.4)	17.6 (25.4)	0.8 (1.3)	2.6 (4.2)	
<b>8 h</b>	6.5		2.6 (12.0)	17.8 (26.9)	0.7 (1.2)	2.5 (3.9)	
	7.0		2.4 (12.5)	18.3 (28.3)	0.6 (1.2)	2.4 (3.7)	
	2.5	Ceiling mounting	4.8 ( 5.4)	10.7 (12.0)	0.6 (1.0)	1.9 (4.0)	
	3.0	Escape route, central	5.4 ( 6.1)	12.2 (13.6)	0.5 (0.8)	1.6 (3.3)	
	3.5		1.8 ( 6.8)	11.0 (15.1)	0.5 (0.8)	1.6 (2.8)	
	4.0		1.6 ( 7.4)	10.0 (16.6)	0.5 (0.8)	1.6 (2.5)	
4.5		1.3 ( 2.6)	5.1 (18.0)	0.3 (0.7)	1.5 (2.3)		

# Atlantic O CGLine+

Safety luminaire, wall or ceiling mounting

Atlantic LED O CGLine+



Atlantic O CGLine+ with symmetric optics

## Planning help for Atlantic LED O – symmetric optics for E = 1.0 lx (0.5 lx)

Measurement plane: 0.02 m, maintenance factor MF = 80 %, battery operation

Duration of emergency operation	Mounting high (m)	Types of mounting	Types of mounting				
			L1	L2	L3	L4	
1 h	2.5	Ceiling mounting	4.5 (5.4)	10.7 (12.4)	3.8 (4.5)	8.9 (10.0)	
	3.0	Escape route, central	4.7 (5.9)	11.7 (13.8)	4.1 (5.0)	9.9 (11.4)	
	3.5		4.9 (6.3)	12.5 (15.1)	4.1 (5.4)	10.8 (12.5)	
	4.0		4.3 (6.6)	13.2 (16.1)	4.1 (5.8)	11.4 (13.6)	
	4.5		2.3 (6.8)	13.6 (17.0)	2.1 (5.8)	11.2 (14.5)	
	5.0		1.9 (6.8)	13.1 (17.8)	1.9 (5.8)	10.4 (15.3)	
	5.5		1.6 (6.5)	12.5 (18.5)	1.5 (5.8)	9.6 (16.0)	
	6.0		1.1 (3.5)	7.0 (18.9)	1.1 (3.7)	7.3 (16.3)	
	6.5		0.7 (3.1)	6.1 (19.3)	0.7 (2.9)	5.8 (15.5)	
3 h	2.5	Ceiling mounting	3.8 (4.8)	9.6 (11.4)	3.3 (4.1)	8.1 ( 9.3)	
	3.0	Escape route, central	3.8 (5.2)	10.4 (12.5)	3.3 (4.5)	8.9 (10.5)	
	3.5		1.9 (5.4)	10.8 (13.5)	1.9 (4.7)	9.4 (11.4)	
	4.0		1.6 (5.5)	10.6 (14.3)	1.5 (4.7)	8.4 (12.3)	
	4.5		1.2 (5.1)	10.0 (15.0)	1.2 (4.7)	7.6 (12.9)	
	5.0		0.8 (2.7)	5.4 (15.4)	0.8 (2.6)	5.2 (13.1)	
	8 h	2.5	Ceiling mounting	1.0 (3.4)	6.6 ( 8.9)	0.9 (2.9)	5.2 ( 7.6)
		3.0	Escape route, central	0.6 (1.8)	3.6 ( 9.5)	0.6 (1.9)	3.7 ( 8.2)

## Planning help for Atlantic LED O – symmetric optics for E = 1.0 lx (0.5 lx)

Measurement plane: 0.02 m, maintenance factor MF = 80 %, battery operation

Duration of emergency operation	Mounting high (m)	Types of mounting	Types of mounting				
			L1	L2	L3	L4	
1 h	2.5	Ceiling mounting	3.9 (4.3)	9.6 (10.6)	2.9 (3.6)	7.2 ( 8.5)	
	3.0	Room illumination	3.4 (4.6)	10.6 (11.6)	3.1 (4.1)	8.1 ( 9.8)	
	3.5		3.4 (4.4)	11.6 (13.2)	3.1 (4.2)	8.8 (10.4)	
	4.0		3.4 (5.4)	12.5 (14.6)	2.8 (4.1)	9.4 (11.0)	
	4.5		2.4 (5.4)	13.0 (15.6)	1.8 (4.1)	10.2 (11.8)	
	5.0		1.9 (5.4)	12.1 (16.8)	0.8 (3.8)	11.1 (12.3)	
	5.5		1.0 (5.4)	11.6 (17.6)	0.8 (3.7)	11.0 (13.0)	
	6.0		1.2 (3.4)	11.8 (18.4)	0.5 (3.1)	10.5 (13.6)	
	6.5		1.0 (2.4)	11.9 (18.2)	0.5 (0.8)	9.5 (14.9)	
	7.0		0.6 (2.4)	11.3 (17.1)	0.5 (1.0)	8.9 (15.8)	
3 h	2.5	Ceiling mounting	3.4 (3.4)	8.9 ( 9.6)	2.4 (3.4)	6.5 ( 8.0)	
	3.0	Room illumination	3.4 (4.3)	9.7 (11.0)	2.5 (3.6)	7.3 ( 8.7)	
	3.5		2.0 (4.4)	10.5 (12.2)	2.0 (3.5)	7.9 ( 9.4)	
	4.0		1.4 (4.4)	9.7 (13.3)	0.9 (3.4)	9.0 (10.0)	
	4.5		1.0 (4.4)	9.4 (14.1)	0.6 (3.3)	8.8 (10.7)	
	5.0		1.0 (2.4)	9.2 (14.5)	0.5 (3.3)	8.5 (11.6)	
	5.5		0.6 (2.1)	9.3 (13.9)	0.5 (0.9)	7.3 (12.9)	
	6.0		0.5 (1.5)	8.7 (13.6)	0.5 (0.5)	6.8 (12.5)	
	8 h	2.5	Ceiling mounting	1.2 (2.9)	6.0 ( 8.3)	0.8 (2.2)	5.6 ( 6.2)
		3.0	Room illumination	0.8 (1.9)	5.8 ( 8.9)	0.6 (1.9)	5.3 ( 7.0)
3.5			0.5 (1.4)	5.7 ( 8.6)	0.5 (0.6)	4.4 ( 7.9)	
4.0			0.7 (0.8)	4.7 ( 8.2)	0.5 (0.7)	4.3 ( 7.7)	
4.5			0.7 (0.9)	3.3 ( 8.0)	0.7 (0.5)	3.4 ( 7.3)	
5.0		0.7 (0.5)	2.8 (8.0)	0.5 (0.5)	2.4 ( 6.2)		



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