

10.2 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

Wire cross-section	Max length of a branch (Distance to farthest luminaire)	Max total cable length per line
0.5 mm ² *	260 m	660 m
1.0 mm ²	520 m	1.320 m
1.5 mm ²	800 m	2.000 m

* e.g. J-Y(ST)Y 2x2x0,8

Electrical data per line/bus

Supply voltage Bus	Max. allowable voltage drop	Bus current
25 V DC	6 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:

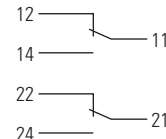
- Rapid green blinking if at least 1 luminaire is undergoing a function test
- Rapid green blinking if at least 1 luminaire is undergoing a duration test

LED failure:

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

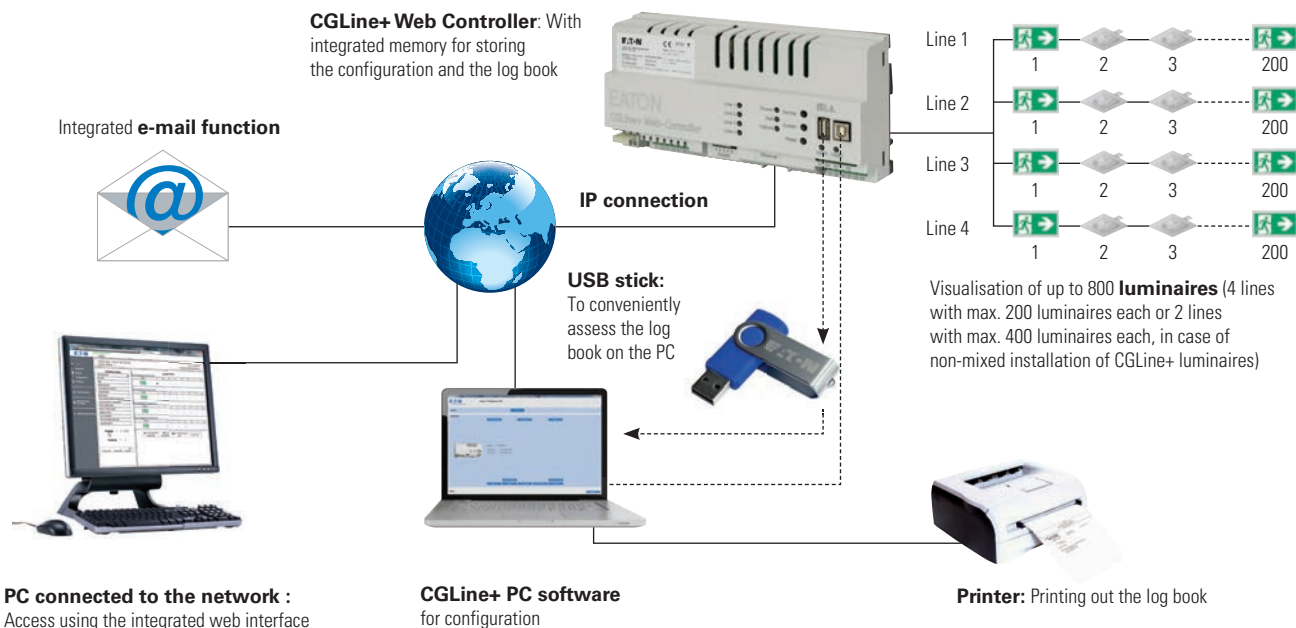
- 3 Button:**
- Service = Starts a function test for example
 - System = Starts a USB connection using the USB2 port
 - Reset = Hardware reset of the device
- 4 USB1 port (Host)** for connecting a regular USB memory stick

- 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
- green = connected (link)
 - yellow = 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

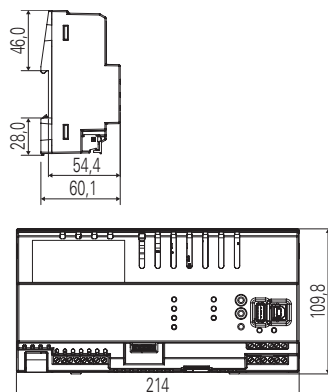
CGLine+ Web Controller: With integrated memory for storing the configuration and the log book



CGLine+ Web Controller with integrated web server



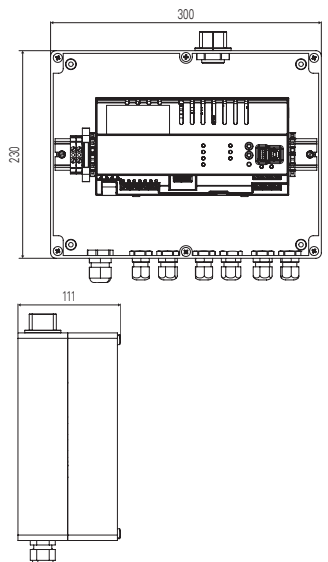
Dimensional drawings, data in mm



CGLine+ Web Controller connection box



Dimensional drawings, data in mm



CGLine+ Web Controller

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

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

Ordering details

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

Accessories

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