## 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 mm²* | 260 m | 660 m |
| 1.0 mm² | 520 m | 1.320 m |
| 1.5 mm² | 800 m | 2.000 m |

* e.g. J-Y(ST)Y 2 x 2 x 0,8

## 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



**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 an 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**

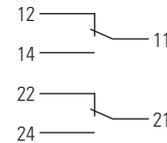**7 Connections for the CGLine+ bus,** line 1 to line 4

**8 RS485**

**9 LAN (RJ45)** with LED display
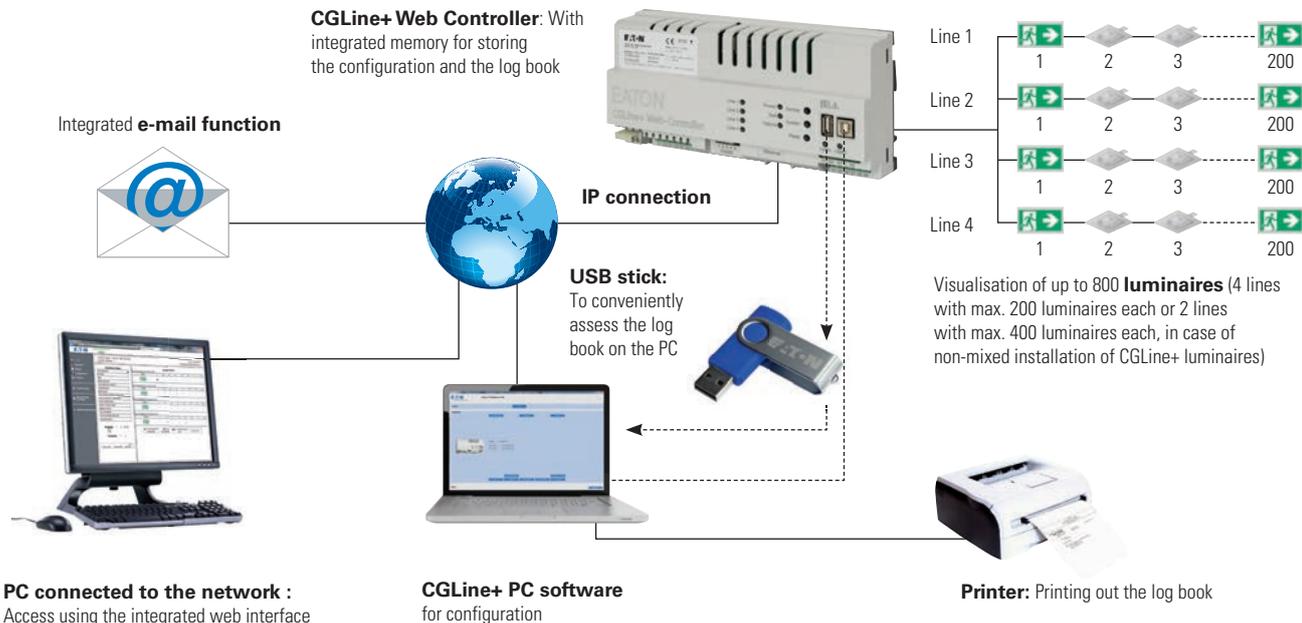- green = connected (link)
- yellow = data transfer (traffic)

**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

**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.

## CGLine+ in operation



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

Integrated **e-mail function**

**IP connection**

**USB stick:** To conveniently assess the log book on the PC

Visualisation of up to 800 **luminaires** (4 lines with max. 200 luminaires each or 2 lines with max. 400 luminaires each, in case of non-mixed installation of CGLine+ luminaires)

**PC connected to the network :** Access using the integrated web interface

**CGLine+ PC software** for configuration

**Printer:** Printing out the log book

CGLine+ Web Controller with integrated web server

Dimensional drawings, data in mm

46,0
28,0
54,4
60,1
109,8
214
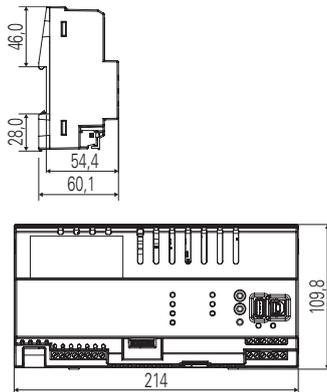
CGLine+ Web Controller connection box

Dimensional drawings, data in mm

300
230
111
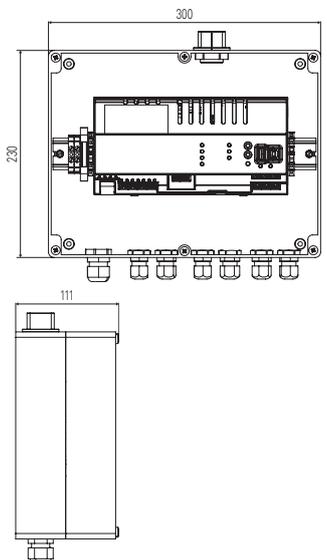
### CGLine+ Web Controller

- 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 |