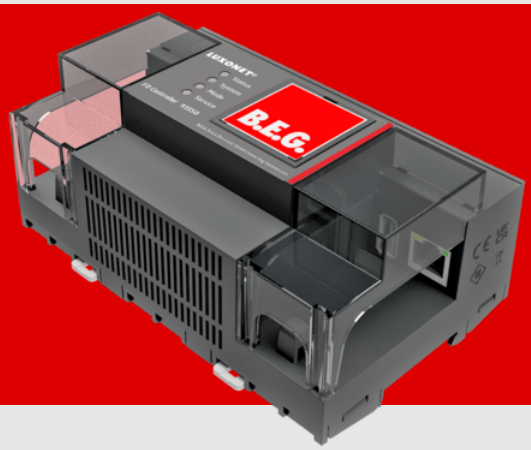


FB Controller

93550 EAN: 4007529935505

Virtual, pre-programmable controller with an integrated Ethernet switch for energy-efficient, time-saving, flexible, scalable, and secure building automation with LUXONET® from B.E.G.

Order data

Designation	Colour	Art.No
FB Controller	anthracite	93550

Technical data

Voltage:	24 – 48 V DC
Dimensions:	90 x 144 x 64 mm (8 TE)
Power consumption:	max. 1 W
Degree / class of protection:	IP20 / Class II
Ambient temperature:	0 °C to +45 °C
Housing:	Polyamide, UV-resistant
Material color:	anthracite
Connections and wires:	Ethernet/LAN

Product information

Virtually pre-programmable control for energy-efficient, time-saving, flexible, scalable and secure building automation with LUXONET® from B.E.G.

In the LUXONET® building automation system from B.E.G., the fieldbus controller acts as the central link to fieldbus gateways, cloud-based project planning software and external systems. It is the central time clock and enables the reproduction of local, script-based and fieldbus gateway-independent automations as well as the efficient distribution of fieldbus gateway-isolated automations. In addition to easy scalability, this concept enables a high level of operational reliability by avoiding a single point of failure (SPoF) in the automation level.

Supports flexible DALI lighting control and emergency lighting management with additional products

Fully virtual planning and configuration with graphical user interface

Turnkey automation scripts for typical areas of application (e.g. offices, corridors, gyms, classrooms, high-bay warehouses, folding door rooms, and much more)

Quick linking of digital twins on the construction site with floor plan view on tablet

Easy installation and device replacement processes (e.g. luminaire replacement) designed for in-house technicians or local electricians

Extended, detailed installation check of all field devices with QR code scan on the fieldbus controller

Flexible connection to building management systems via integrated API secure with additional products possible

Rack-mount device with daisy chain housing concept and transparent side caps

3 Ethernet connections

Integrated strain relief for 2 Ethernet connections

Integrated Ethernet switch

Integrated real-time clock

Status LED indicators

Fully encrypted MQTT communication (MQTTS) based on BSI recommendations

Multi-factor authentication for cloud-based project planning software

Applications and functions:

Manual switching and dimming of lights via conventional push buttons possible

Presence-dependent lighting control, daylight-dependent

lighting control and time-based automation adjustable

Semi-automatic, fully automatic, lighting control or presence mode adjustable

Single, offset and multi-instance control can be set

Fade-in, cross-fade and fade-out can be set

Colour temperature – Tunable White – static or dynamic, can be set depending on time

Situations and sequences can be set

Automation time window – for example, for day and night operation – adjustable

Orientation light adjustable

Guided Light – swarm function – adjustable

Folding door function – e.g. for 3-field sports hall or double conference room – adjustable

Presence-dependent HVAC control via DALI relay adjustable

Central eco mode – centrally triggered, temporary limitation of the maximum light value of all or certain luminaires – adjustable

Any logical functions can be provided at short notice by B.E.G.

Dependencies:

Planning and commissioning can only be carried out by B.E.G. itself or by LUXONET®-certified partners (system integrators or electricians)

Local Ethernet network with specific requirements required

The local Ethernet network must be connected to the Internet for installation monitoring, commissioning, remote maintenance and software updates.

An Internet connection is not essential for regular operation after commissioning.

Scope of delivery information:

Cable ties for strain relief device included in delivery

Labelled double plug for DC power supply, also suitable for through-wiring, included in delivery

Labelled plug for RS485 included in delivery

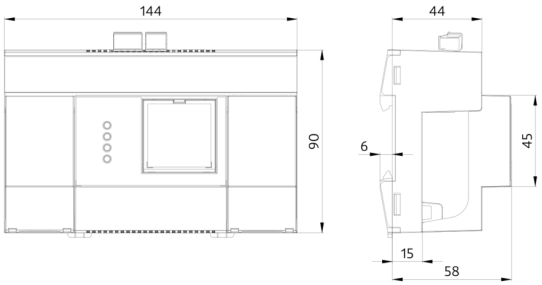
Other

This item is a component of a building automation system from B.E.G.

Additional system components (hardware) from B.E.G. are required

Additional software from B.E.G. is required

Additional services (planning, commissioning and, if necessary, maintenance) from B.E.G. or certified system integrators are required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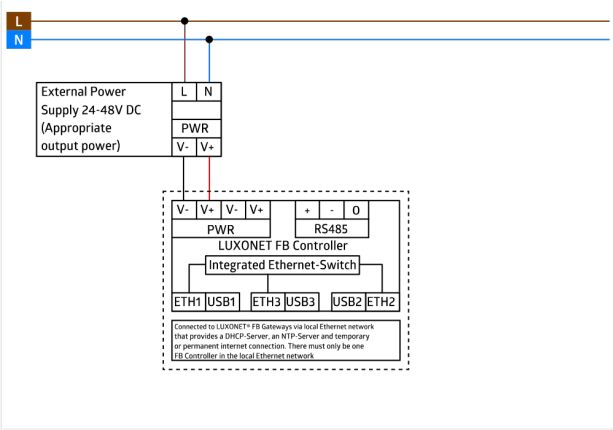
L
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External Power
Supply 24-48V DC
(Appropriate
output power)
L
N
PWR
V-
V+
V-
V+
V-
V+
PWR
+
-
0
RS485
LUXONET FB Controller
Integrated Ethernet-Switch
ETH1
USB1
ETH3
USB3
USB2
ETH2
Connected to LUXONET® FB Gateways via local Ethernet network
that provides a DHCP-Server, an NTP-Server and temporary
or permanent internet connection. There must only be one
FB Controller in the local Ethernet network