Blu2Light

BLUETOOTH® WIRELESS TECHNOLOGY DEVICES FOR INSTALLATION IN LUMINAIRES

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**Blu2Light –
The intelligent wireless lighting control solution**

Blu2Light is the first completely open Bluetooth® wireless technology system with mesh functionality for the professional lighting market, which, in addition to a variety of functions for lighting control, offers the luminaire manufacturer added IoT benefits with maximum system security.

Connect ME
Innovative DALI controller with Bluetooth® wireless technology.
MultiSensor XS
DALI controller with Bluetooth® wireless technology as well as daylight and motion sensor with up to 4m mounting height.
MultiSensor XL
DALI controller with Bluetooth® wireless technology as well as daylight and motion sensor, high-bay edition with up to 12m mounting height.
MultiSensor XXL
DALI controller with Bluetooth® wireless technology as well as daylight and motion sensor, extended high-bay edition with up to 17m mounting height.

Advantages of Blu2Light Technology

- **CONFIGURATION VIA LiNA CONNECT APP**
- **OPERATION VIA LiNA TOUCH APP**
- **CONNECTION OF UP TO 64 DALI DRIVERS**
- **INTEGRATED BEACON FUNCTION**
- **OPERATING LIFETIME: 50,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**

5 YEARS GUARANTEE

Blu2Light devices for installation in luminaires at a glance

		Apps	
	Configuration **via LiNA Connect (iOS)**	LiNA	**Operation** **via LiNA Touch (iOS/Android)**
Blu2Light Connect ME Ref. No. 186768	Blu2Light MultiSensor XS Ref. No. 186706	Blu2Light MultiSensor XL Ref. No. 186800	Blu2Light MultiSensor XXL Ref. No. 187104

Technical Data

Type Ref. No.	Connect ME 186768	MultiSensor XS 186706	MultiSensor XL 186800	MultiSensor XXL 187104
Communication	Blu2Light mesh network			
Control output	DALI in acc. with IEC 62386			
Power supply	via DALI bus			
Power consumption	max. 0.24 W (max. 15 mA at 16 V)			
Frequency range	2402–2480 MHz			
Output	< 10 mW EIRP			
Ambient temperature t_a	0–50 °C			
Degree of protection	IP20			
Protection class	II			
Weight	30 g	35 g	40 g	
Light sensor	–	0–1000 lx, V(λ) compensated		
Motion sensor	–	PIR detection range 0.1 to max. 5.7 m (temperature dependent)	PIR detection range 0.1 to max. 12 m (temperature dependent)	PIR detection range 0.1 to max. 17 m (temperature dependent)
Detection range (at t_a = 20 °C)	–	At a typical installation height of 4 m, results in a detection range with diameter of approx. 9 m	At a typical installation height of 12 m, results in a detection range with diameter of approx. 15 m	At a typical installation height of 17 m, results in a detection range with diameter of approx. 20 m
Connection terminals	Push-in terminals: 0.5–1.5 mm²		Screw terminals: 0.75–2.5 mm²	
Casing	Polycarbonate, white			
Dimensions	Ø 40 x H 40 mm (with cord grip)	Ø 40 x H 43.8 mm	L 103 x W 36 x H 32 mm	

Product guarantee

- 5 years
- The conditions for the Product Guarantee of the Vossloh-Schwabe Group shall apply as published on our homepage (www.vossloh-schwabe.com).
  We will be happy to send you these conditions upon request.

50 000 hours
Min. Service Lifetime

Guarantee 5 years

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Vossloh-Schwabe Deutschland GmbH · Stuttgarter Straße 61/1 · 73614 Schorndorf · Germany · Phone +49 7181/8002-0 · Fax +49 7181/8002-122 · www.vossloh-schwabe.com

Blu2Light Connect ME

DALI controller with
Bluetooth® wireless technology
For in-luminaire installation
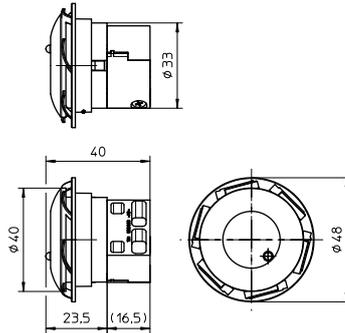Dimensions (ØxH): 40x28.2 mm
With integrated LED (blue-green): this flashes
when in configuration mode.
Fastening: clip-in into luminaire sheet with wall
thickness of 0.5–1 mm
CAUTION: Only one insertion of the housing is
possible. Removal of the ring makes the housing
useless and leads to the defect of the housing.
Weight: 30 g
Ref. No.: 186768

Blu2Light MultiSensor XS

Motion and daylight sensor with
DALI connectivity and
Bluetooth® wireless technology
Flush mounted or in-luminaire installation
Dimensions (ØxH): 40x43.8 mm
With cord grip
With integrated LED (blue-green): this flashes
when in configuration mode.
Fastening: Gently compress the spring-
mounted levers on the sensor cover using
two fingers and let them snap into place in
the pre-drilled hole (35 mm) at the selected
position; wall thickness of ceiling
max. 12.5 mm
Weight: 30 g
Ref. No.: 186706

Capture range of the sensor
at 20 °C

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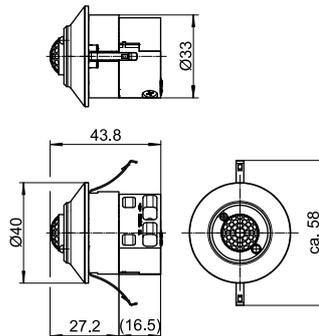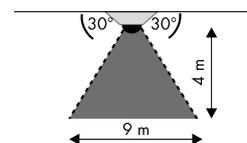
Blu2Light MultiSensor XL

Motion and daylight sensor with
DALI connectivity and
Bluetooth® wireless technology
for high-bay applications up to 12 m mounting height
Flush-mounted or installation in luminaires
Dimensions (LxWxH): 103x36x32 mm
With cord grip
Fastening: with 2 screws M3
Screw terminals: 0.75–2.5 mm²
Weight: 40 g
Ref. No.: 186800

Capture range of the sensor
at 20 °C

36° 36°
12 m
15 m

Blu2Light MultiSensor XXL

Motion and daylight sensor with
DALI connectivity and
Bluetooth® wireless technology
for high-bay application applications up to 17 m mounting height
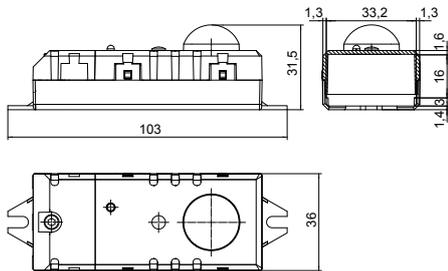Flush-mounted or installation in luminaires
Dimensions (LxWxH): 103x36x32 mm
With cord grip
Fastening: with 2 screws M3
Screw terminals: 0.75–2.5 mm²
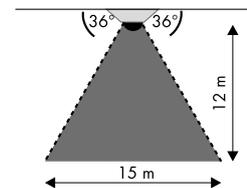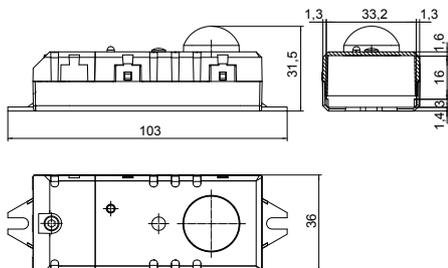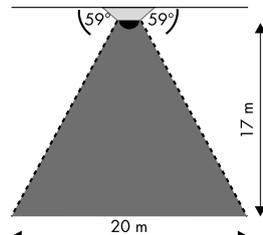Weight: 40 g
Ref. No.: 187104

Capture range of the sensor
at 20 °C

59° 59°
17 m
20 m

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Blu2Light Light Management – Installation in Luminaires

General safety instructions

- Only qualified persons are allowed to install and start up Blu2Light products.
- Prior to installing and commissioning the system, read these instructions carefully. Only this will guarantee correct and safe handling. Please keep these instructions as you may need them later.
- The devices must always be disconnected before any work is carried out on them.
- The applicable safety and accident prevention regulations must be observed.
- Opening by unqualified personnel of the products is prohibited: Risk of death from electric shock! The devices must only be repaired by the manufacturer.
- Supply of external voltage to the DALI control line, e.g. 230 V mains voltage, may destroy the products.

Installation　　**Connect ME**

First, thread the leads through the counter ring and then through the pre-drilled hole (Ø 35 mm) into the metal casing so as to connect them to the Connect ME terminal. Then insert the Connect ME terminal into the metal casing from the front and press the counter ring with the retainers into the space provided until the ring clicks into place (see Fig. 1).

Fig. 1

MultiSensor XS, with or without a cord grip

Prepare the cable, then connect to the sensor and attach a cord grip, if necessary. Gently compress the spring-mounted levers on the sensor cover using two fingers and let them snap into place in the pre-drilled hole (35 mm) at the selected position (see Fig. 2).

MultiSensor XL / MultiSensor XXL

Please use the provided mounting lugs

Fig. 2

- When placing the sensors, make sure that its detection range is not blocked by objects, furniture, etc.

IMPORTANT

PIR sensors detect changes in heat radiation. All range information refers to a room temperature of 20 °C. Objects that are colder or warmer, in conjunction with high or low temperatures, usually lead to altered detection ranges. For example, the range decreases in winter, or increases in the summer. Please check, therefore, whether these sensors are suitable for the intended application.

Power supply

This product does not contain its own power supply and will be powered by the DALI bus.
For suitable VS power suppliesand corresponding drivers, please refer to our system survey.

Overvoltage protection of the DALI interface

Connecting higher voltages than DALI voltage will destroy the device.
Operation with 24 V / 110 V / 230 V is generally not permitted!

Important note

All Blu2Light devices (ME, XS, XL, XXL, ...) that are supplied via DALI may only be connected to one DALI power supply! Therefore, it is not permissible to connect several Blu2Light devices to one power supply. In this case, malfunctions will occur.
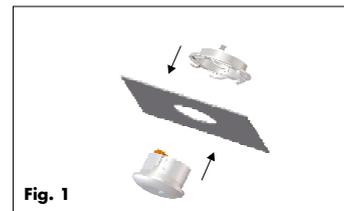
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Installation instructions

Connect ME / MultiSensor XS

- Conductor cross section of all terminals: 0.5–1.5 mm² for both rigid and flexible conductors
- Preparation of the sensor wires:

with cord grip   without cord grip

8,5–9,5 mm

max. 17,5 mm

8,5–9,5 mm

MultiSensor XL / MultiSensor XXL

- Conductor cross section of all screw terminals: 0.75–2.5 mm²
- Screw terminals: max. torque: 0.4 Nm
- Preparation of the sensor wires:

7–10 mm

max. 20 mm

- By default, the DALI bus is not SELV-protected. All wires to be mains voltage-proof.
- Joint installation of the DALI bus line with the mains cable in one cable is admissible up to max. 100 m, e.g. using NYM 5x1.5 mm². Installers not to exceed the maximum length set for the entire DALI bus:

	2.5/1.5 mm²	1 mm²	0.75 mm²	0.5 mm²
6.2 Ω max.	300 m	180 m	130 m	80 m

Setup and operation

- The Blu2Light light in-luminaire devices will be configured with the LiNA Connect app and can be operated via the LiNA Touch app.
- For the exact configuration procedure of the Blu2Light devices, please refer to the instructions or the corresponding documentation.
- For setup of the devices a tablet is required. For operation both, tablets and smartphones, can be used. Both are not included. Neither tablet nor smartphone are included in the delivery.
- For information on the iOS and Android operating systems that can currently be used, refer to the LiNA Connect/ LiNA Touch manual:

Important note:

Please refer to the installation instructions included with the product and the applicable Blu2Light system data sheet before installation. Make sure that the Bluetooth radio signal can propagate freely according to the specifications.

Bluetooth® wireless technology

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CE

We, Vossloh-Schwabe Deutschland GmbH, herewith confirm that these devices comply with the basic requirements of the directive 2014/53 / EU and other relevant directives. The entire text of the declaration of conformity can be obtained from the following address:

Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1
D-73614 Schorndorf

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