Blu2Light Light Management – Installation in Luminaires



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

Blu2Light devices for installation in luminaires at a glance

Configuration via LiNA Connect (iOS) Blu2Light Connect ME Ref. No. 186768 Blu2Light MultiSensor XS Ref. No. 186706 Blu2Light MultiSensor XL Ref. No. 186800 Blu2Light MultiSensor XL Ref. No. 187104

Technical Data

Туре	Connect ME	MultiSensor XS	MultiSensor XL	MultiSensor XXL	
Ref. No.	186768	186706	186800	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 ta	0–50 ℃				
Degree of protection	IP20				
Protection class					
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 terminal	s: 0.5–1.5 mm ²	Screw terminals: 0.75-2.5 mm ²		
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			

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.



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Blu2Light Connect ME

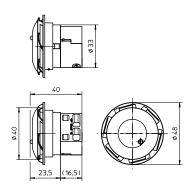
DALI controller with Bluetooth® wireless technology

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 $0.5-1~\mathrm{mm}$

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

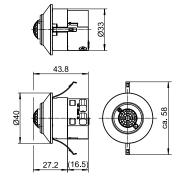
Flush mounted or in-luminaire installation Dimensions (ØxH): 40x43.8 mm

With cord grip

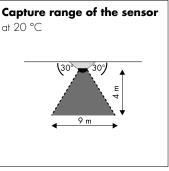
With integrated LED (blue-green): this flashes when in configuration mode.

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**







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Blu2Light MultiSensor XL

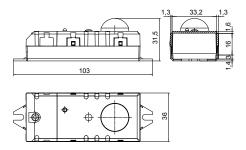
Motion and daylight sensor with DALI connectivity and Bluetooth® wireless technology for high-bay applications up to 12 m mounting height

Flush-mounted or installation in luminaires Dimensions (LxWxH): 103x36x32 mm

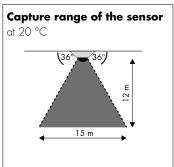
With cord grip

Fastening: with 2 screws M3 Screw terminals: 0.75–2.5 mm²

Weight: 40 g **Ref. No.: 186800**







Blu2Light MultiSensor XXL

Motion and daylight sensor with

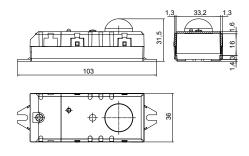
DALI connectivity and
Bluetooth® wireless technology
for high-bay application applications up to 17 m mounting height

Flush-mounted or installation in luminaires Dimensions (LxWxH): 103x36x32 mm

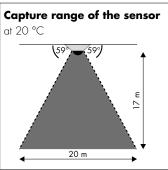
With cord grip

Fastening: with 2 screws M3 Screw terminals: 0.75–2.5 mm²

Weight: 40 g **Ref. No.: 187104**







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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 (\varnothing 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).



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

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



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.

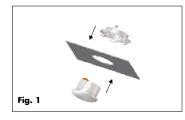
Power supply

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!





Installation instructions

Connect ME and MultiSensor XS

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



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:



- 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 mm ²	1 mm ²	0.75 mm ²	0.5 mm ²
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.

Арр	Operating mode	Operating devices	iOS	Android
LiNA Connect	Configuration	iPad	Version 10	_
LiNA Touch	Operation	Tablet / Smartphone	and higher	Version 5 and higher

Bluetooth® wireless technology

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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 Hohe Steinert 8 D-58509 Lüdenscheid

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