BLUETOOTH® WIRELESS TECHNOLOGY DEVICES FOR INSTALLATION IN LUMINAIRES

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

## Apps

- **Configuration via LiNA Connect (iOS)**
- **Operation via LiNA Touch (iOS/Android)**

<table>
<thead>
<tr>
<th>Blu2Light Connect ME</th>
<th>Blu2Light MultiSensor XS</th>
<th>Blu2Light MultiSensor XL</th>
<th>Blu2Light MultiSensor XXL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ref. No. 186768</td>
<td>Ref. No. 186706</td>
<td>Ref. No. 186800</td>
<td>Ref. No. 187104</td>
</tr>
</tbody>
</table>

## Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Connect ME 186768</th>
<th>MultiSensor XS 186706</th>
<th>MultiSensor XL 186800</th>
<th>MultiSensor XXL 187104</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>Blu2Light mesh network</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control output</td>
<td>DALI in acc. with IEC 62386</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>via DALI bus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 0.24 W (max. 15 mA at 16 V)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency range</td>
<td>2402–2480 MHz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>&lt; 10 mW EIRP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient temperature $t_a$</td>
<td>0–50 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>30 g</td>
<td>35 g</td>
<td>40 g</td>
<td></td>
</tr>
<tr>
<td>Light sensor</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>0–1000 lx, V(λ) compensated</td>
</tr>
<tr>
<td>Motion sensor</td>
<td>—</td>
<td>PIR detection range 0.1 to max. 5.7 m (temperature dependent)</td>
<td>PIR detection range 0.1 to max. 12 m (temperature dependent)</td>
<td>PIR detection range 0.1 to max. 17 m (temperature dependent)</td>
</tr>
<tr>
<td>Detection range (at $t_a = 20 °C$)</td>
<td>—</td>
<td>At a typical installation height of 4 m, results in a detection range with diameter of approx. 9 m</td>
<td>At a typical installation height of 12 m, results in a detection range with diameter of approx. 15 m</td>
<td>At a typical installation height of 17 m, results in a detection range with diameter of approx. 20 m</td>
</tr>
<tr>
<td>Connection terminals</td>
<td>Push-in terminals: 0.5–1.5 mm²</td>
<td>Screw terminals: 0.75–2.5 mm²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing</td>
<td>Polycarbonate, white</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Ø 40 x H 40 mm (with cord grip)</td>
<td>Ø 40 x H 43.8 mm</td>
<td>L 103 x W 36 x H 32 mm</td>
<td></td>
</tr>
</tbody>
</table>

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.
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 predrilled 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 Light Management – Installation in Luminaires

Blu2Light MultiSensor XL

*Motion and daylight sensor withDALI connectivity andBluetooth® wireless technologyfor 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 withDALI connectivity andBluetooth® wireless technologyfor high-bay 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**

**Conneqt 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 Conneqt ME terminal. Then insert the Conneqt 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).

**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.

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 supplies and 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:
  - with cord grip
  - without cord grip

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:

  - 8.5–9.5 mm
  - max. 17.5 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:

<table>
<thead>
<tr>
<th>2.5/1.5 mm²</th>
<th>1 mm²</th>
<th>0.75 mm²</th>
<th>0.5 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 m</td>
<td>180 m</td>
<td>130 m</td>
<td>80 m</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>App</th>
<th>Operating mode</th>
<th>Operating devices</th>
<th>iOS</th>
<th>Android</th>
</tr>
</thead>
<tbody>
<tr>
<td>LiNA Connect</td>
<td>Configuration</td>
<td>iPad</td>
<td>Version 10</td>
<td>—</td>
</tr>
<tr>
<td>LiNA Touch</td>
<td>Operation</td>
<td>Tablet / Smartphone</td>
<td>Version 5 and higher</td>
<td>—</td>
</tr>
</tbody>
</table>

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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
Hohes Steinert 8
D-58509 Lüdenscheid

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