

Last information update: March 2024

**Product code**

X680: External Organic Response multi-sensor

Technical description

Organic Response wireless multi-sensor with light and motion detector.

IR, Wirepas and Bluetooth communication technology and PIR detection.

Can be connected to DALI luminaires on lines powered by a DALI PSU.

In base systems with a Plug&Play configuration, the Organic Response multi-sensor allows the luminaires to operate in stand-alone (motion control) mode and to communicate in wireless mode with other nearby Organic Response multi-sensors that other luminaires are connected to.

The external multi-sensor also communicates with the modules of other iGuzzini systems with an integrated Organic Response (e.g. iN 60, Light Shed 14...) For advanced operations, like enabling daylight controls, connecting a wireless button, creating zones and editing operating parameters the Organic Response app, available from App Store and Play Store, can be used.

Accessories are available like BLE buttons, dongles and gateways for system architectures connected to the Organic Response Portal that can be used to exploit other sensor functions like Analytics (e.g. occupancy).

Integrated beacon that can be activated via the Organic Response Portal (iBeacon protocol).

DALI power supply unit to be ordered separately.

Installation

The external multi-sensor can be recessed, surface or pendant-mounted using a rod:

- for recessed installations, order the X681 spring kit. Drill hole diameter \varnothing 63.5mm +5 mm/- 0mm

- for surface installation, order the X682 base

- for rod-mounted installations, order the X682 base + X683 cover (rod not included)

Multi-sensor positioning height min 2.7 m / max 3.7 m.

Distance between sensors min 1.0 m / max 3.0 m.

For the correct distances between Organic Response sensors, refer to the instruction sheets or contact iGuzzini.

Typical motion sensor cover diameter: 3 m (@ 2.7 m installation h), 58°.

Colour

White (01) | Black (04)

Weight (Kg)

0.07

Wiring

The sensor is supplied with a L = 1m output cable. It must be powered using an X684 DALI power supply unit. A parallel type wiring scheme is used to connect the sensor to the power supply unit and the DALI line for the luminaires.

Notes

Compatible with DALI and DALI-2 luminaires, and luminaire operation in Broadcast mode.

Compatible with DT8 Tunable White luminaires.

Specifications:

-(Max) multi-sensor absorbed current: 40 mA.

-Number of DALI drivers that can be connected: min1-max12 (max 24 mA).

-Wireless frequency 2.4 GHz / IR 38 kHz.

-X685 sensor-sensor-gateway RF mesh: Wirepas, maximum distance 8m (in a straight line with no obstacles).

-Sensor-smartphone-button connection: Bluetooth.

Default values Plug&Play (that can be changed from the app):

-Maximum light level with presence (max light): 100%

-Wait before shifting to low light level (dwell time): 10 min

-Low light level (low light): 10%

-Low light level time (low light time): 10 min

-Minimum light value after low level time (min light): 0% (OFF)

-Daylight control: disabled

-Double time for sensor that has detected the last presence state (double dwell time): disabled

For advanced programming with the Organic Response portal, an X687 IR dongle and X685 gateway are required.

Complies with EN60598-1 and pertinent regulations

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