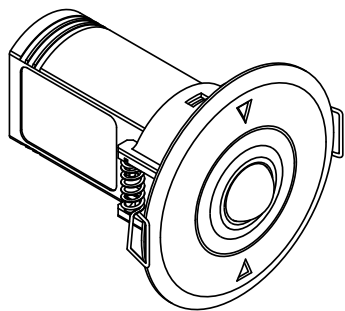


CBU-PIR-CR-DA

Casambi BLE 4.0, 5.0 presence & light sensor with DALI controller



Instruction manual

■ Features and recommendations

CBU-PIR-CR-DA is a dual motion and light sensor with integrated Casambi BLE communication module and DALI output.

CBU-PIR-CR-DA integrates a DALI bus power supply with a guaranteed current of 50mA, which means that up to 25 DALI drivers can be controlled with a single device.

The DALI output of the CBU-PIR-CR-DA can alternatively be configured as a potential-free N.O. push button input (see Casambi fixture profiles).

The sensor is powered by 24VDC SELV. An accessory power supply for 100-240Vac use is included in the box.

Configuration and settings are done by using the free CASAMBI app (available for IOS and Android). A multitude of Casambi fixture profiles are available.

Do not install on surfaces subject to vibration or unstable surfaces. Move at least 1 meter away from windows, powerful light sources, and air heating or ventilation ducts.

For detection of small movements (Static) the sensor must be installed directly above.

■ Warning

Risk of electric shock, personal injury or death.

This device may only be installed and put into operation by qualified personnel.

Switch off the power supply before installing the device. Follow the national installation norms.

Check the information of the devices to be controlled for compatibility. Refer to the sensor datasheet.

This device is designed for use in lighting and industrial control.

Do not use this device on equipment where malfunction may cause serious personal injury or may endanger human life.

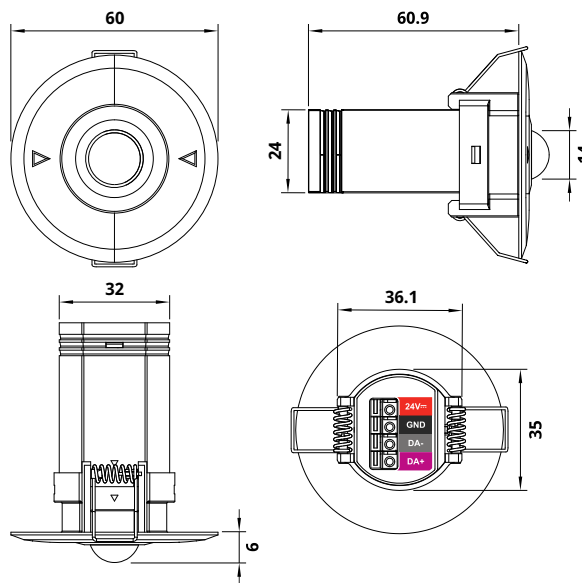
Do not open, modify or repair the device. The device contains no repairable parts.

Not recommended for installation on metal panels or surfaces because they block Bluetooth communication.



At the end of its useful life, this electronic device must be delivered to an authorized clean point for its correct management and recycling.

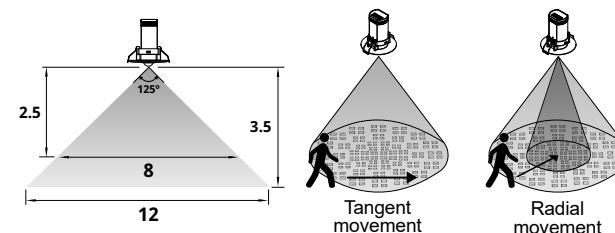
■ Mechanical dimensions (mm)



■ Technical data

Input voltage	24 VDC SELV (18-26.4V)
Maximum input current	85 mA
Power consumption	2 W (<0.3 W on standby)
Guaranteed DALI Current	50 mA (25 DALI drivers)
Maximum DALI current	250 mA
Operating temperature	-20°C ... +50°C
IP rating	IP20 (Indoor applications)
Wire cross section	0.25-2 mm ²
Wire peeling length	9-10 mm

■ Detection area (m)



Height (m)	Tangent mov. (m)	Radial mov. (m)	Static mov. (m)	ΔTemp.
2.5	Ø 8	Ø 5	Ø 2.4	4°C
3.5	Ø 12	Ø 7	Ø 4.5	8°C

ΔTemp. is the temperature difference between the moving object and the surrounding ambient for an optimal performance.

■ Casambi fixture profiles

The factory default fixture profile is **#43371 Sensor + Push Button**

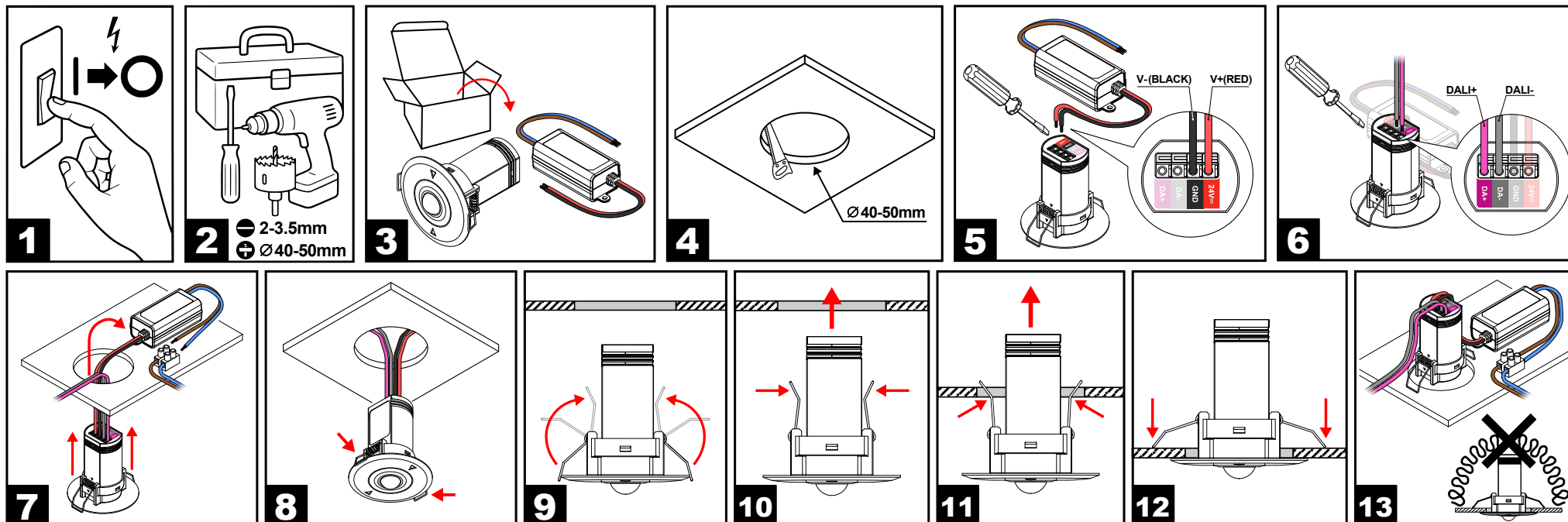
More than 30 Casambi fixture profiles are available to enable different control modes and to match the DALI signal to the type of drivers used (DT6, DT8, TW, RGB, RGBW, etc.).

The full and detailed fixtures list can be accessed by checking the below link or QR code. Datasheet, manual, certificates and other useful information are also available there.



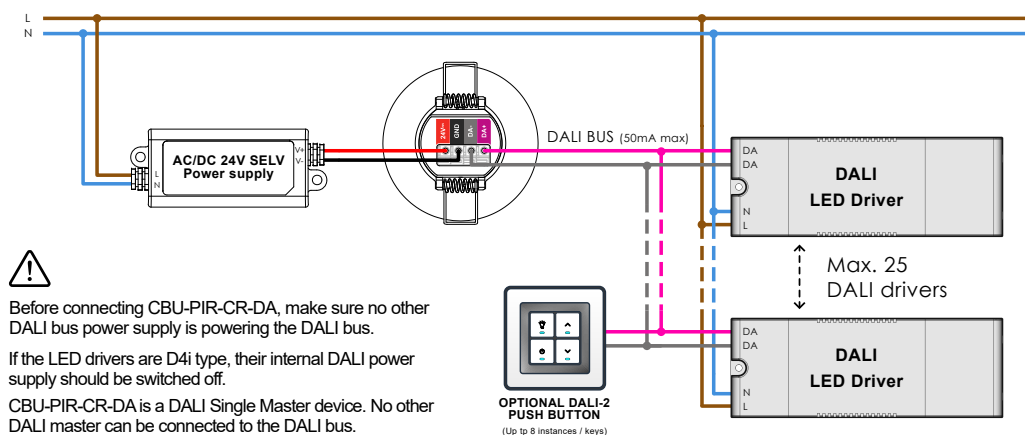
<https://www.olfer.com/olfer-cbu-pir-cr-da.html>

■ Installation instructions

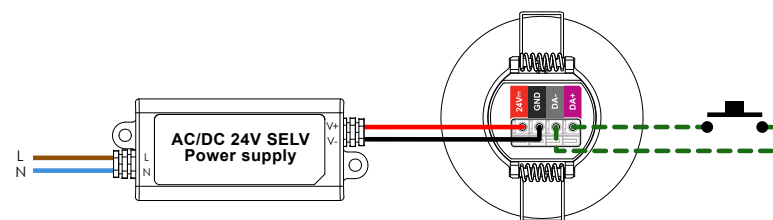


1. Turn off the power before starting
2. Use flat head screwdriver (2-3.5mm) and core drill bit
3. Take the sensor and the 24V power supply from the box
4. Drill a Ø40-50mm hole
5. Connect 24V power supply positive and negative as per diagram
6. For DALI control, connect wires as per diagram
7. For 100-240Vac, pass the power supply through the hole and connect to live and neutral
8. Identify the two springs
9. Bend up the springs as shown in the diagram
10. Hold the springs and insert sensor in the ceiling
11. Release when the springs enter the ceiling
12. When the springs are released, the sensor will remain fixed to the ceiling
13. Make sure that there is no material covering the sensor or the power supply

■ Wiring diagram sensor with DALI control



■ Wiring diagram sensor with push button (optional)



Must use #43371 Sensor + Push Button fixture profile