

Ceiling PIR Detector (311)

The 311 Ceiling PIR Detector is a compact, flush-mounted ceiling unit that provides energy-saving functions when used in a DALI system. The unit contains these sensors:

- Passive infrared detector (PIR)
- Infrared receiver (for 303 IR remote control handset).

As a presence detector, the unit can turn lights on when a room is occupied and off when the room is empty.

The unit is fully compatible with Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.

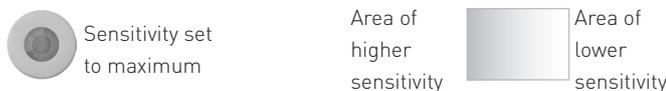
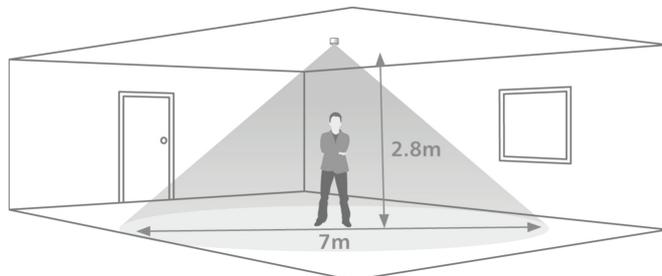
Key Features

- PIR sensor detects movement within detection range allowing load control in response to changes in room occupancy.
- IR Receiver receives control and programming commands from a Helvar 303 IR (infrared) handset (available separately).
- Status LEDs flash red to indicate the following:

Valid setting received	
Identify Active	

= Red LED

Detection Pattern

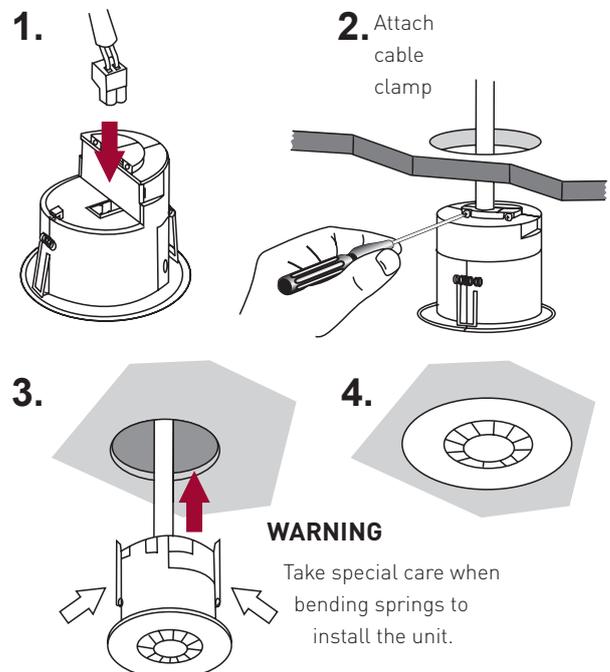


Installation Notes

- Position the sensor so that the occupants of the room are normally inside the detection zone.
- Do not install the sensor within 1 m of any lighting, forced air heating, or ventilation equipment.
- Do not fix the sensor to an unstable or vibrating surface.
- Install the unit as far away as possible from the surface of metal objects.
- The detection pattern illustrated is based on a mounting height of 2.8 m.
- A lower mounting height will decrease the overall size of the detection zone.

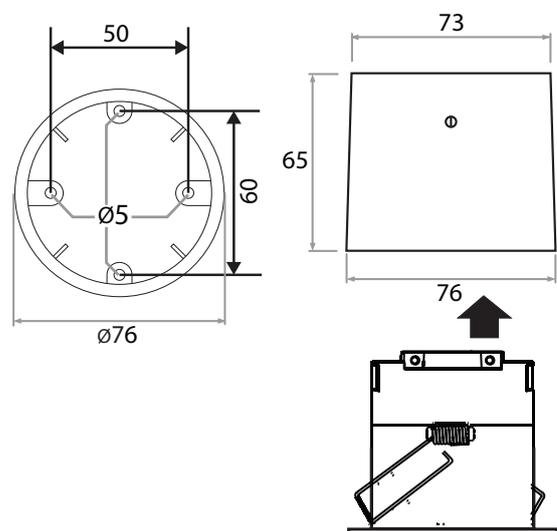


Installation: mounting hole



Installation: Surface back box SBB-A

Note: Order the SBB-A surface mount box separately.



Technical Data

Connections

External power / DALI: Removable connector block;
Wire size: 0.5 mm² – 1.5 mm²;
Solid or stranded

Cable rating: All cables must be mains rated
Max. length: 300 m @ 1.5 mm²

Power

DALI supply input: 13 V to 22.5 V

DALI consumption: 15 mA

Sensors

Presence detector: PIR: Passive infrared presence detector

Infrared receiver: For remote control commands

Remote control functions

Remote control handset: Helvar 303 remote control

Use Helvar 303 remote control to:

- recall lighting scenes 1–4
- adjust light levels
- store current level
- install preset levels for scenes 1–4

Note: Adjust sensitivity using Designer, or DIGIDIM Toolbox (and not by remote control unit).

Mechanical data

Mounting hole diameter: 68 mm

Bezel diameter: 76 mm

Recommended clearance depth (incl. 50 mm for cabling): 80 mm (without protective cover); 100 mm (with protective cover)

Material (casing): Flame retardant ABS

Finish / Colour: Matt / White

Weight: 58 g

IP code: IP30

Operating conditions

Ambient temperature: +10 °C to +35 °C

Relative humidity: Max. 90 %, non-condensing

Storage temperature: -10 °C to +70 °C

Conformity and standards

EMC emission: EN 61000-6-1

EMC immunity: EN 61000-6-3

Safety: EN 60730-1

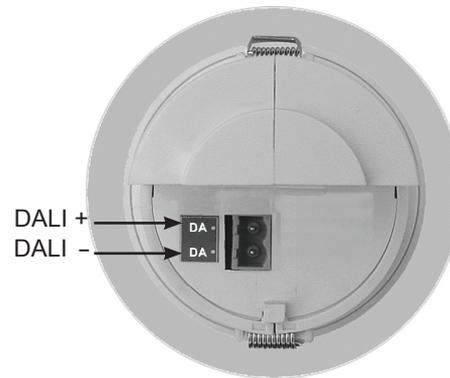
Environment: Complies with WEEE and RoHS directives

Version information

Software version: 6.08

Hardware version: Rev. 2

Connections



Dimensions

