



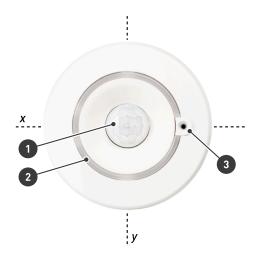
321D2 Multisensor

The Multisensor is a compact unit and DALI-2 certified input device that combines a light sensor for constant light control and a passive infrared (PIR) presence detector to provide energy-saving functions in a DALI system.

The light sensor measures reflected light from the surface directly beneath it. The unit uses this information to maintain a constant light level by adjusting the lamp outputs. The PIR sensor enables the Multisensor to switch the lights on when its coverage area is occupied, and off when it is unoccupied. The sensor's settings are adjusted using Helvar's Designer software.

Due to its excellent detection performance, the Multisensor is especially suitable for applications where small or slow movements take place for extended periods of time, such as offices or classrooms. Since its detection sensitivity is less dependent on movement direction than that of most PIR sensors, fewer units are required to reliably cover a target area.

The unit can be mounted into a ceiling void or onto a solid surface using Helvar's SBB-C (white) or SBB-CB (black) mounting box (sold separately).

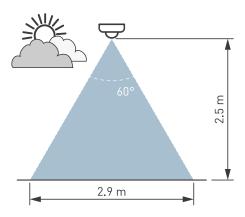


- 1. PIR sensor
- 2. Status LED
- 3. Light sensor

Key Features

- Excellent detection performance through high sensitivity and multidirectional coverage
- · Programmable constant light control for energy efficiency
- 10 mA DALI current consumption
- Compact and functional design
- Programmable in Designer
- DALI-2 certified input device

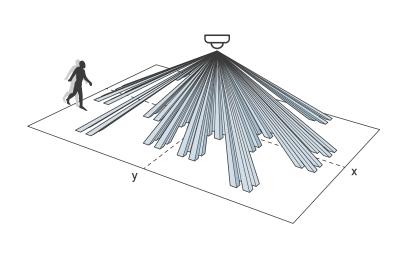
Constant Light Coverage



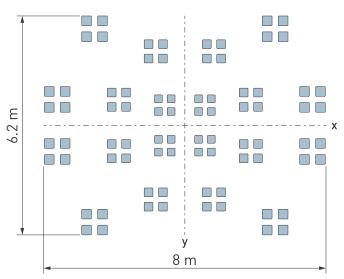




Detection

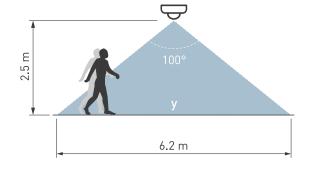


Detection pattern

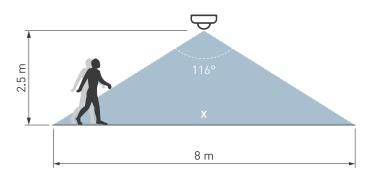


Detection Pattern at floor level for 2.5 m mounting height

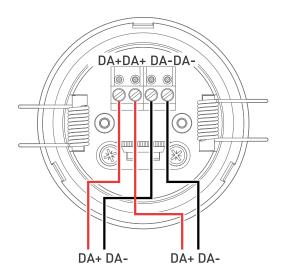
Y-axis coverage



X-axis coverage



Connections

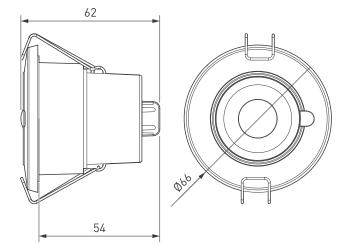




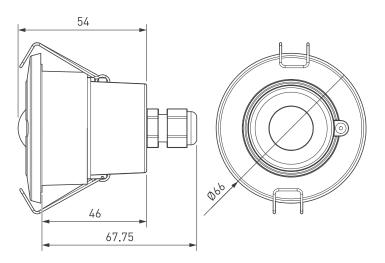


Dimensions (mm)

321D2, 321BD2



321PD2, 321BPD2



Technical Data

Connections

DALL: Removable connector

block

Wire section: 0.5-1.5 mm²,

solid or stranded.

Cable rating: All cables must be mains

rated.

Electrical Data

DALI supply input: 12–22.5 V

DALI consumption: 10 mA Max

Sensors

Light sensor: For constant-light

functions

Presence detector: Passive infrared (PIR)

Operation

Start-up time: ≤1 sec

Mechanical data

Recommended

mounting height:

Presence detection

coverage area:

46 m² @ 2.5 m mounting height

Mounting hole diameter: 51 mm +/- 1 mm

Max. 4 m

Note: If replacing an older sensor, 52–55 mm mounting hole is

acceptable.

Ceiling thickness: Maximum 25 mm

Bezel diameter: 66 mm

Recommended 10 cm (with cable cover, including 5 cm

clearance depth: for cabling)

Dimensions: 321D2, 321BD2: 66 x 62 mm

321PD2, 321PBD2: 66 x 67.75 mm

Material (casing): Nonflammable PC/ABS (UL94-V0)

Finish/Colour: 321D2, 321PD2: Semi-matt / White RAL

9003

321BD2 321PBD2: Semi-matt /

Anthracite grey RAL 7016

Weight: 66.3 g

IP rating: 321D2, 321BD2: IP30

[IP20 cable cover]

321PD2, 321PBD2: IP65





Operating and storage conditions

Ambient temperature: 0 °C to +50 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: -10 °C to +70 °C

Compatibility

Device: 950 Application Controller

Designer: 5.8.2 or later

Conformity and standards

Conformity:

EMC emission: EN 55015

EMC immunity:

DALI: IEC 62386, Parts 101, 103, 303

and 304

EN 61547

Safety: EN 61347-2-11

Environment: Complies with WEEE, RoHS and

REACH directives.