



# 321D2, 321BD2, 321PD2, 321PBD2 Datasheet

# **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.

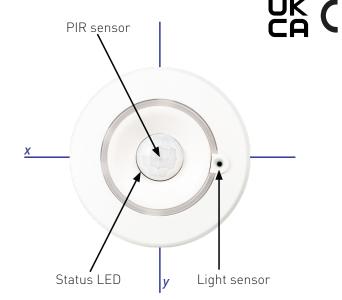
Due to its excellent detection performance, the Multisensor is especially suitable for applications where small or slow movements take place for extended periods of time, such as offices or classrooms. Since its detection sensitivity is less dependent on movement direction than that of most PIR sensors, 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-E (white) or SBB-EB (black) mounting box (sold separately).

## **Key Features**

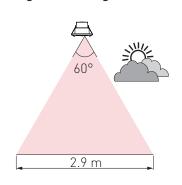
- Excellent detection performance through high sensitivity. and multidirectional coverage.
- Programmable constant light control for energy efficiency.
- 10 mA DALI current consumption.
- Compact and functional design.
- Programmable in Designer.
- DALI-2 certified input device.

# DZ, 3Z IPBDZ Datasneet

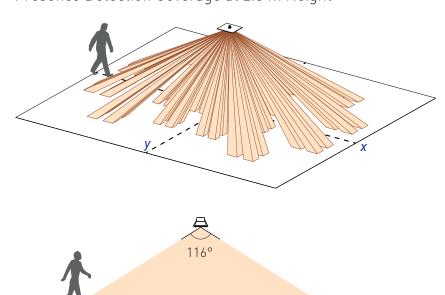


Helvar

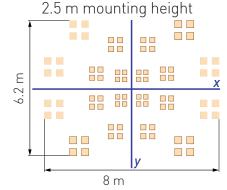
### Constant Light Coverage at 2.5 m Height

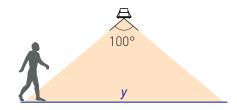


#### Presence Detection Coverage at 2.5 m Height



# Detection pattern at floor level for







#### **Technical Data**

#### Connections

DALI: Removable connector block

Wire section: 0.5 mm² – 1.5 mm² solid or stranded

Cable rating: All cables must be mains rated.

**Electrical Data** 

DALI supply input: 12 V - 22.5 V DALI consumption: 10 mA Max

Sensors

Light sensor: For constant-light functions

Presence detector: Passive infrared (PIR)

Mechanical data

Max. recommended 4 m

mounting height:

Presence detection 46 m<sup>2</sup> @ 2.5 m mounting height

coverage area:

Mounting hole diameter: 51 mm +/- 1 mm

Note: If replacing older sensor then 52 mm to 55 mm mounting

hole is acceptable.

Ceiling thickness: Maximum 25mm

Bezel diameter: 66 mm

Recommended 10 cm (with cable cover, incl. 5 cm for

clearance depth: cabling)

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

Operation

Start-up time: < 1 sec

## Conformity and standards

DALI: IEC62386, Parts 101, 103, 303 and 304

EMC emission: EN 55015

EMC immunity: EN 61547

Safety: EN 61347-2-11

Environment: Complies with WEEE and RoHS directives.

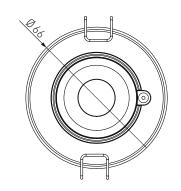
Software compatibility

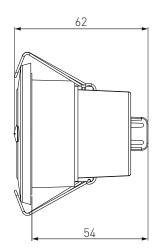
Router: 950

Designer: 5.8.2 or later

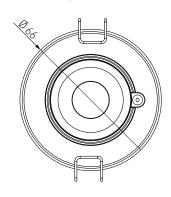
## Dimensions (mm)

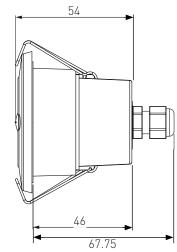
321D2, 321BD2





321PD2, 321PBD2





#### **Connections**

