

322D2, 322BD2 HIGH BAY MULTISENSOR Datasheet



Automatically control lighting loads at heights that are too high for general sensors

The High Bay Multisensor is a DALI-2 certified compact unit that provides energy-saving functions in DALI applications where mounting heights are too high for standard sensors, such as warehouses and factories.

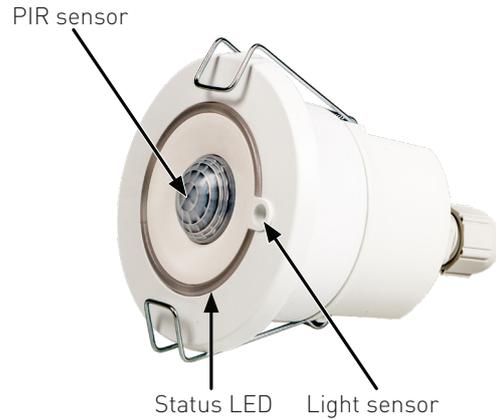
Sealed with a gasket that protects it from dust and water, this IP65 sensor is designed to be recessed in a ceiling void or in a luminaire construction.

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 features:

- A passive infrared detector (PIR), which detects movement within its coverage area, allowing load control in response to changes in space occupancy. It switches the lights on when its coverage area is occupied, and off when it is unoccupied
- A light sensor, which provides a bright-out function: it can be programmed in Designer to switch off the lights when the natural light rises above a predefined illuminance threshold.

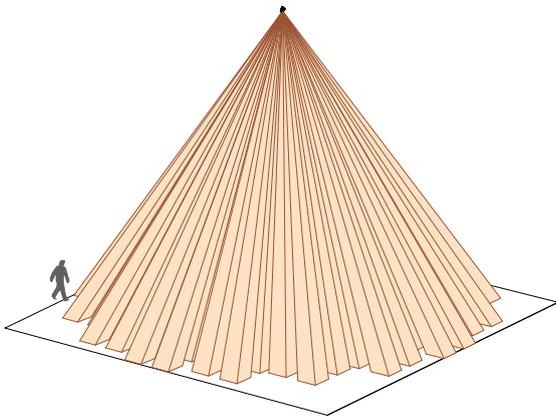
The High Bay Multisensor is compatible with Helvar's lighting systems and configuration software, Designer.



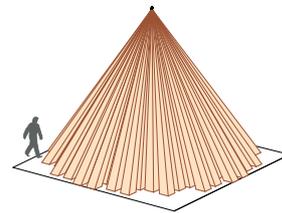
Key Features

- Excellent detection performance through high sensitivity and multidirectional coverage
- Suitable for applications with very high ceilings
- Protected against dust and water (IP65)
- Programmable bright-out control for energy efficiency (only available on a lighting router system)
- Simple connection and integration into a Helvar DALI control network.
- Programmable in Designer.
- DALI-2 certified input device.

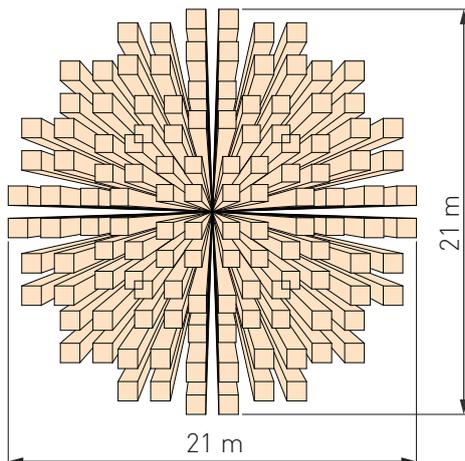
Presence Detection Coverage at 15 m Height



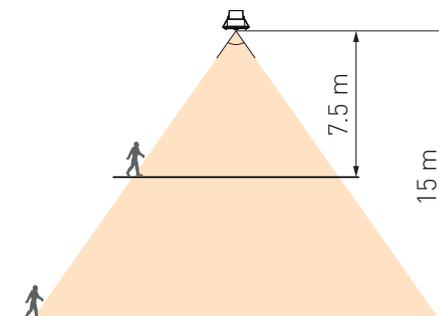
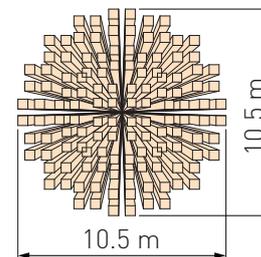
Presence Detection Coverage at 7.5 m Height



Detection pattern at floor level for 15 m mounting height



Detection pattern at floor level for 7.5 m mounting height



Technical Data

Connections

DALI: Removable connector block
 Cable jacket diameter: 4.5 mm – 7 mm
 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 bright-out function
 Presence detector: Passive infrared (PIR)

Mechanical data

Max. recommended mounting height: 17 m
 Presence detection coverage area: 346 m² @ 15 m mounting height
 87 m² @ 7 m mounting height
 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 25 mm
 Bezel diameter: 66 mm
 Recommended clearance depth: 12 cm (with cable cover, incl. 5 cm for cabling)
 Material (casing): Flame retardant PC+ABS
 Finish / Colour: 322D2: Semi-matt / White RAL 9003
 322BD2: Semi-matt / Anthracite grey RAL 7016
 Weight: 70 g
 IP rating: IP65

Operating and storage conditions

Ambient temperature: 0 °C to +50 °C
 Relative humidity: Max. 90 %, noncondensing
 Storage temperature: -10 °C to +70 °C

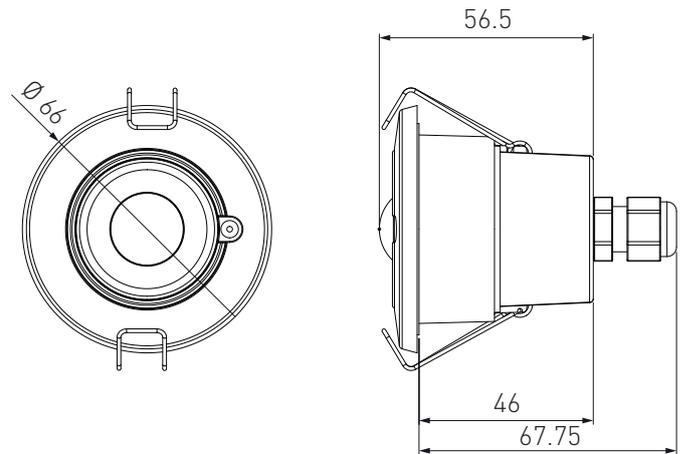
Conformity and standards

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.

Compatibility

Router: 950
 Designer: 5.8.2 or later

Dimensions (mm)



Connections

