

# 322, 322B HIGH BAY MULTISENSOR Datasheet

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

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

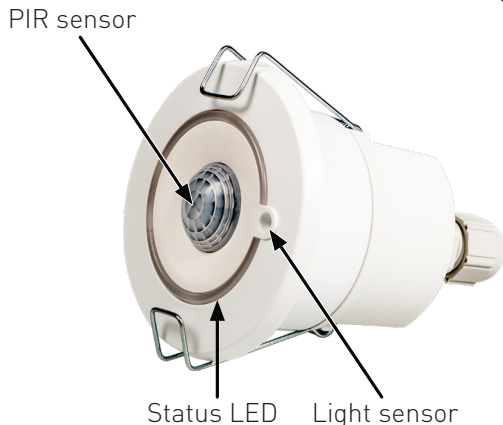
Sealed with a gasket that protects it from dust and water, this IP65 sensor is designed to be recessed in a ceiling void or in a luminaire construction.

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.

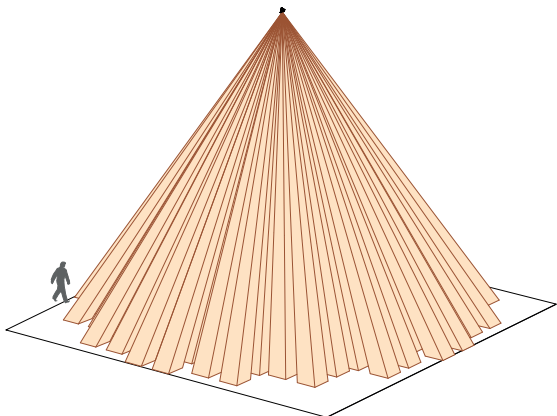
The High Bay Multisensor is compatible with Helvar's lighting systems and configuration software, Designer and Toolbox.



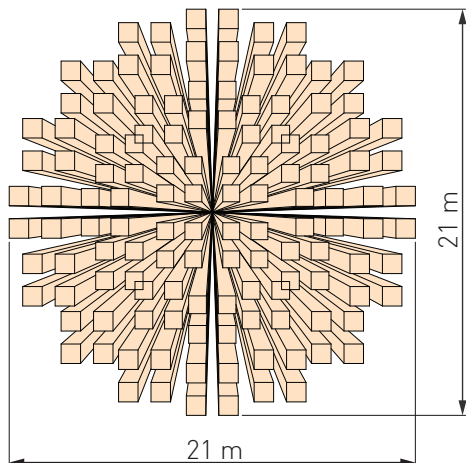
## Key Features

- 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 (on;y available on a lighting router system)
- Simple connection and integration into a Helvar DALI control network.
- Programmable in Designer and Toolbox

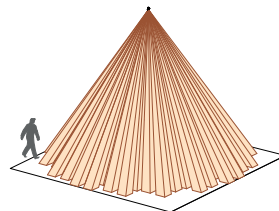
### Presence Detection Coverage at 15 m Height



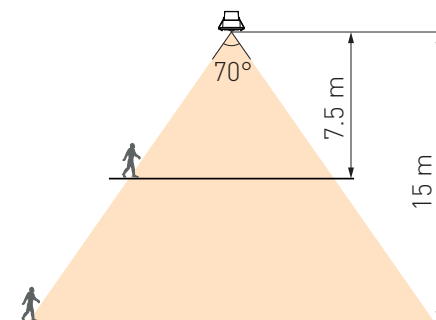
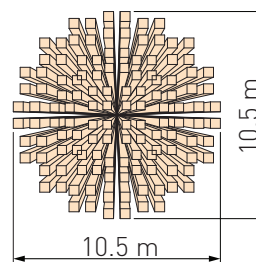
### Detection pattern at floor level for 15 m mounting height



### Presence Detection Coverage at 7.5 m 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 mm<sup>2</sup> – 1.5 mm<sup>2</sup> solid or stranded  
Cable rating: All cables must be mains rated.

## Electrical Data

DALI supply input: 13 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 m<sup>2</sup> @ 15 m mounting height  
87 m<sup>2</sup> @ 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: 322: Semi-matt / White RAL 9003  
322B: 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

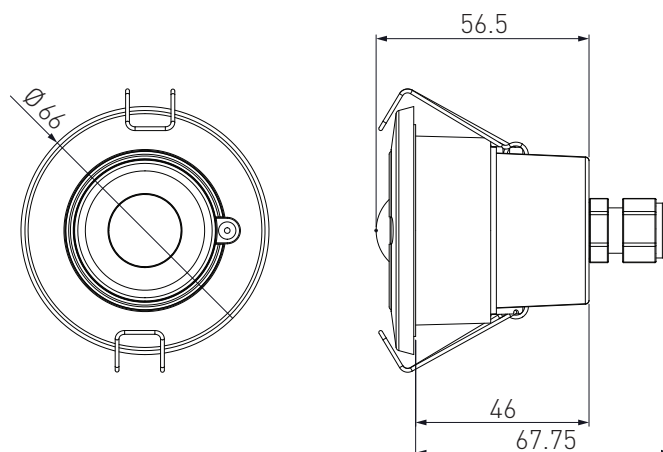
## Conformity and standards

EMC emission: EN 55015  
EMC immunity: EN 61547  
Safety: EN 61347-2-11  
Environment: Complies with WEEE and RoHS directives.

## Software compatibility

Designer: 5.4.2 or later  
Toolbox: 2.5.0 or later

## Dimensions (mm)



## Connections

