Helvar

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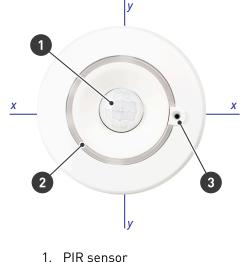
321, 321B, 321P, 321PB Multisensor

The Multisensor is a compact unit 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 or Toolbox 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).



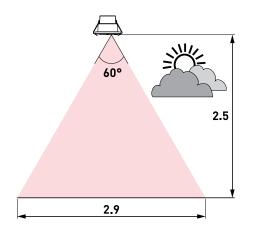
2. Status LED

3. Light sensor

Key Features

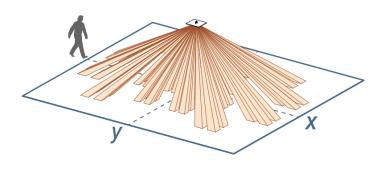
- Excellent detection performance through high sensitivity and multidirectional coverage
- Programmable constant light control for energy efficiency
- 10 mA DALI current consumption
- Compact and functional design
- Programmable in Designer and Toolbox

Constant Light Coverage

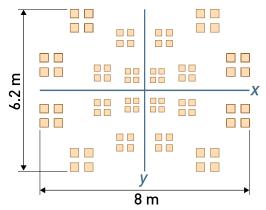




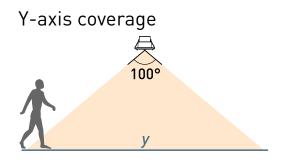
Detection



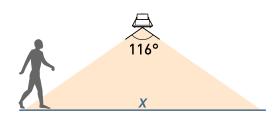
Detection pattern



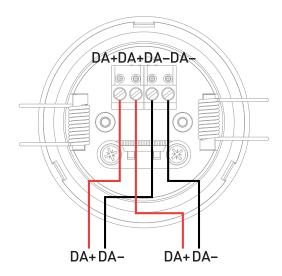
Detection Pattern at floor level for 2.5 m mounting height



X-axis coverage



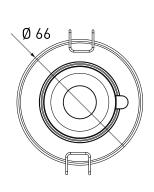
Connections

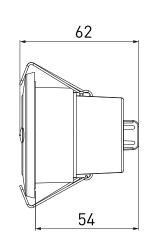




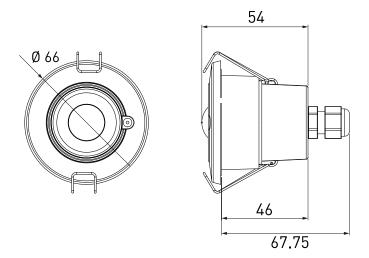
Dimensions (mm)

321, 321B





321P, 321BP



Technical Data

Connections

Mechanical data

DALI:	Removable connector block	Recommended mounting height:	Max. 4 m
	Wire section: 0.5–1.5 mm², solid or stranded	Presence detection coverage area:	46 m²
Cable rating:	All cables must be mains rated.	Mounting hole diameter:	51 mm +/- 1 mm
			r sensor, 52–55 mm mounting hole is
Electrical Data		acceptable.	
		Ceiling thickness:	Maximum 25 mm
DALI supply input:	12–22.5 V	Bezel diameter:	66 mm
DALI consumption:	10 mA Max	Recommended clearance depth:	10 cm (with cable cover, including 5 cm for cabling)
Sensors		Dimensions:	321, 321B: 66 x 62 mm
Light sensor:	For constant-light functions		321P, 321PB: 66 x 67.75 mm
		Material (casing):	Nonflammable PC/ABS (UL94–V0)
Presence detector:	Passive infrared (PIR)	Finish/Colour:	321, 321P: Semi-matt / White RAL 9003
Operation			321B 321PB: Semi-matt / Anthracite grey RAL 7016
Start-up time:	≤1 sec	Weight:	66.3 g
		IP rating:	321, 321B: IP30, [IP20 cable cover]
			321P, 321PB: IP65

Operating and storage conditions

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

Conformity and standards

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

Compatibility

Designer:	5.4 or later
Toolbox:	2.4.2 or later