

321 MULTISENSOR

The Multisensor is a compact sensor that combines a photocell 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 below it. The unit uses this information to maintain a constant light level by adjusting the lamp outputs.

The PIR sensor enables the Multisensor to turn the lights on when its coverage area is occupied, and off when it is unoccupied.

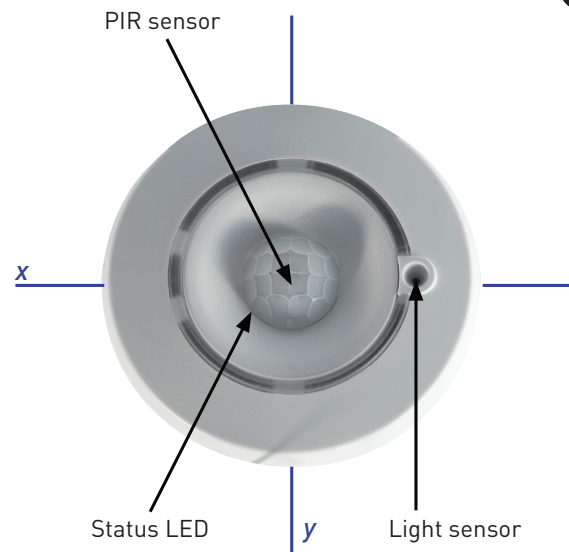
The sensor's settings are adjusted using Helvar's Designer or Toolbox software.

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.

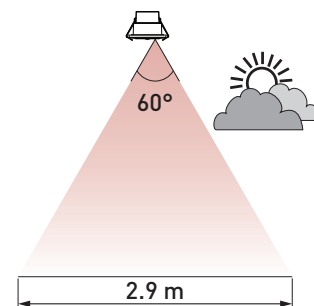
The unit is designed to be recessed in a ceiling void.

Key Features

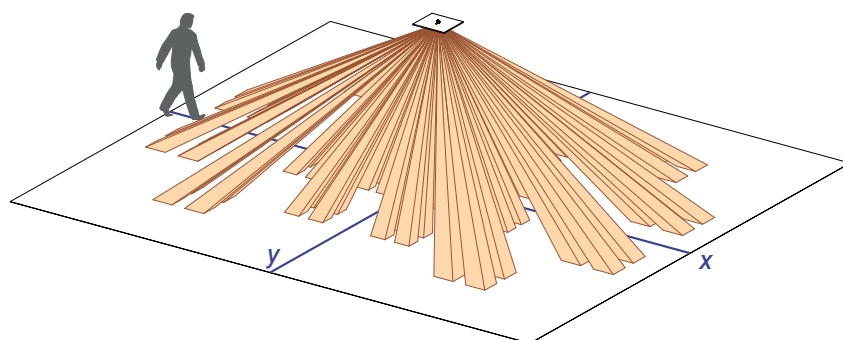
- Excellent detection performance through high sensitivity and multidirectional coverage.
- Programmable constant light control for energy efficiency.
- 5 mA DALI current consumption.
- Compact and stylish design.



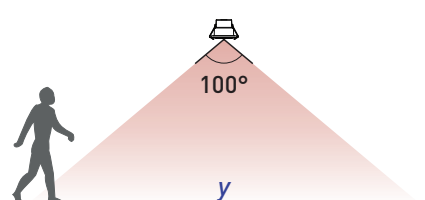
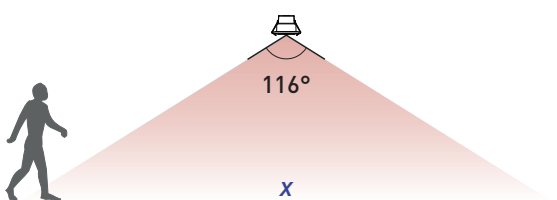
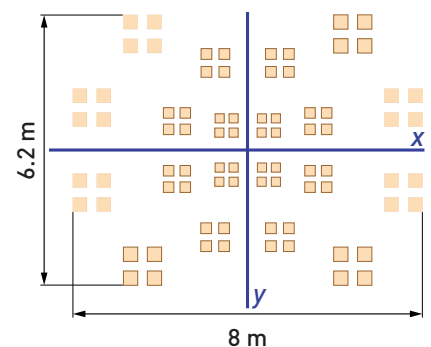
Constant Light Coverage at 2.5 m Height



Presence Detection Coverage at 2.5 m Height



Detection pattern at floor level for 2.5 m mounting height



Technical Data

Connections

DALI:	Removable connector block
Wire section:	0.5 mm ² – 1.5 mm ² solid or stranded
Cable rating:	All cables must be mains rated.

Power

DALI supply input:	13 V – 22.5 V
DALI consumption:	5 mA

Sensors

Light sensor:	For constant-light functions
Presence detector:	Passive infrared (PIR)

Mechanical data

Mounting hole diameter:	52 mm – 55 mm
Bezel diameter:	65 mm
Recommended clearance depth:	10 cm (with cable cover, incl. 5 cm for cabling)
Material (casing):	Nonflammable PC/ABS (UL94-V0)
Finish / Colour:	Semi-matt / White RAL 9003
Weight:	56 g
IP code:	IP30 [IP20 cable cover]

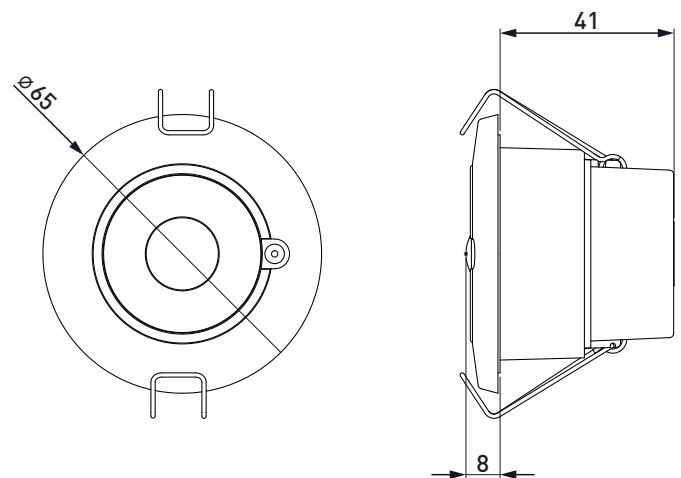
Operating and storage conditions

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 61000-6-3
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
Environment:	Complies with WEEE and RoHS directives.

Dimensions (mm)



Connections

