digidim

Helvar

320P PIR SENSOR

**An easy-to-install PIR sensor with enhanced sensitivity and reliability in standard room heights.**

The IP65 sensor compatible with any DALI system. It has exceptional detection performance, meaning it's perfect in situations where movement might be subtle — such as a classroom under examination conditions, or a professional office environment.

Thanks to passive infra-red detection, lights stay on when people are present. And switch off when there's nobody there.

Because it's less reliant on movement detection than most compact sensors, you can cover a bigger target area with fewer units.

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

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.
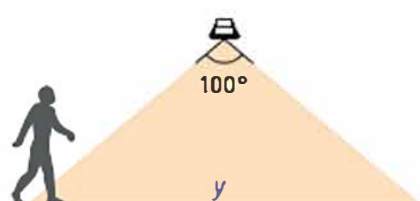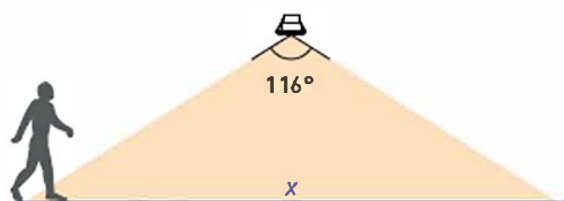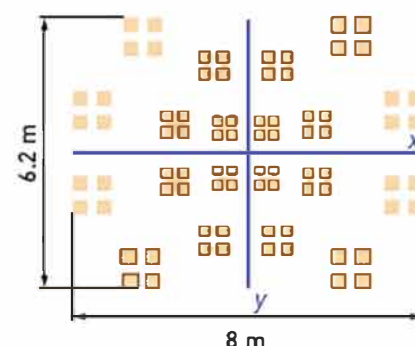

PIR sensor

Status LED
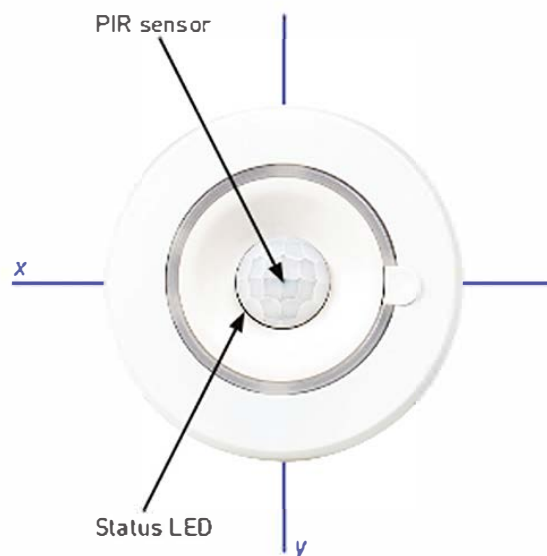
Key features

- Excellent detection performance through high sensitivity and multidirectional coverage
- 10 mA DALI current consumption
- Compact and functional design
- Programmable in Designer and Toolbox

Presence Detection Coverage at 2.5 m Height
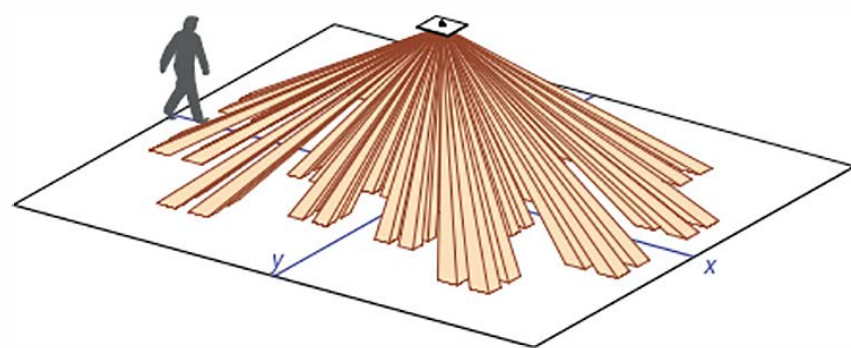
Detection pattern at floor level for 2.5 m mounting height

6.2 m

8 m

116°

100°

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.

Power

DALI supply input:	13 V – 22.5 V
DALI consumption:	10 mA

Sensors

Presence detector:	Passive infrared (PIR)

Mechanical data

Max. recommended mounting height:	4 m
Presence detection coverage area:	46 m² @ 2.5 m mounting height
Mounting hole diameter:	52 mm – 55 mm
Bezel diameter:	66 mm
Recommended clearance depth:	12 cm (with cable cover, incl. 5 cm for cabling)
Material (casing):	Nonflammable PC/ABS (UL94-V0)
Finish / Colour:	Semi-matt / White RAL 9003
Weight:	70 g
IP code:	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 or later
Toolbox:	2.4.2 or later

Dimensions (mm)

Connections