

341 Corridor PIR Sensor

The 341 Corridor PIR Sensor is a compact sensor that provides energy-saving functions for corridors, aisles, hallways and similar areas in a DALI system. It has detection on three beams, covering a 100° sector with a 41-metre radius.

Its PIR sensor enables it to switch on the lights when the coverage area is occupied, and either switch them off or dim them to a preset level when it is unoccupied.

The unit has two detection modes, suited for different types of movements:

- Low/Office: used in areas where small movements occur, such as offices or hospitals. In this mode, the sensor's sensitivity is increased after the trigger.
- High activity: used in areas where people walk, such as corridors in schools, hotels or warehouses.

The Corridor PIR Sensor is compatible with Helvar's lighting systems and configuration software, Designer and Toolbox. Once connected to a lighting control system, the software automatically detects the unit, which can then be programmed with the required functions.

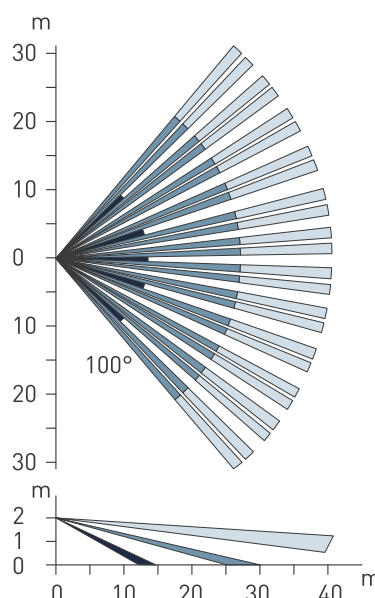
The sensitivity, the detection mode and the LED indication are set from the sensor's circuit board.



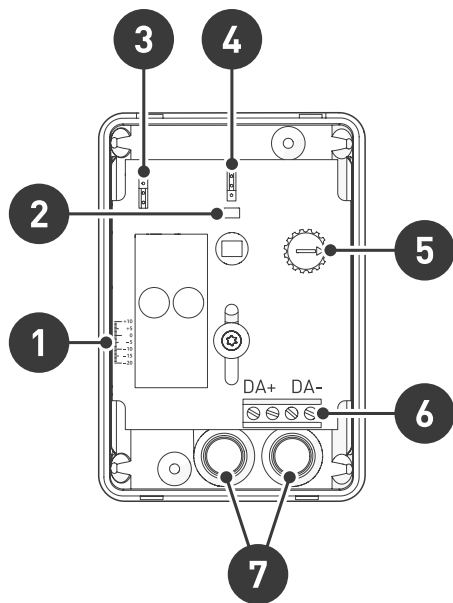
Key Features

- Control of long corridors (up to 41 metres) with one sensor
- 15 mA DALI current consumption
- Two presence detection modes for different environments
- Configurable presence delay and time-out
- Programmable in Designer and Toolbox
- Accessory lenses available for special applications

Presence detection coverage when vertical adjustment at -5° (Default)

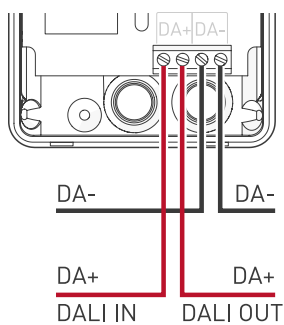


Controls

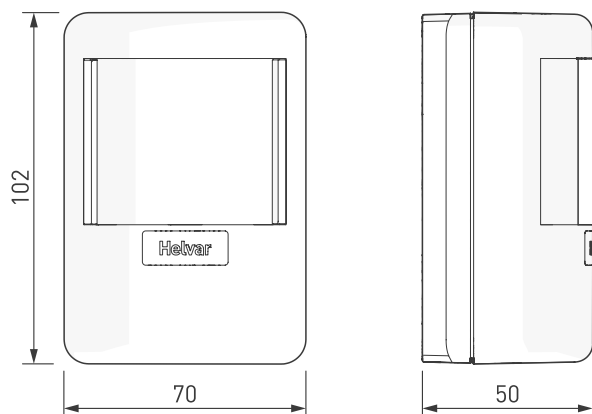


1. Vertical alignment mark
2. LED detection indicator
3. Presence detection mode
Note: Set according to application.
4. Indicator LED (ON/OFF)
5. PIR sensitivity dial
6. DALI connections
7. Knockouts

Connections



Dimensions (mm)



Technical Data

Connections

DALI:	4-way connector block
	Wire Section: 0.5–1.5 mm ² , solid or stranded
Cable rating:	All cables must be mains rated.

Electrical data

DALI supply input:	13–22.5 V
DALI consumption:	15 mA

Sensor

Presence detector:	Passive infrared (PIR)
Detection coverage area:	1470 m ² @ 2 m mounting height
Vertical adjustment:	-20° to +10°
Max. reach:	41 m
Max. recommended mounting height:	2.5 m

Compatibility

Designer:	4.1 or later
Toolbox:	2.2.12 or later

Note: Both Designer and Toolbox recognise the 341 Corridor PIR Sensor as Helvar's 441.

Operating and storage conditions

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

Mechanical data

Dimensions:	70 × 102 × 50 mm
Material (casing):	UL94V-HB ABS
Finish / Colour:	Semi-matt / White (RAL 9003)
Weight:	93 g
IP rating:	IP42

Conformity and standards

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