

341 Corridor PIR Sensor

The 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.

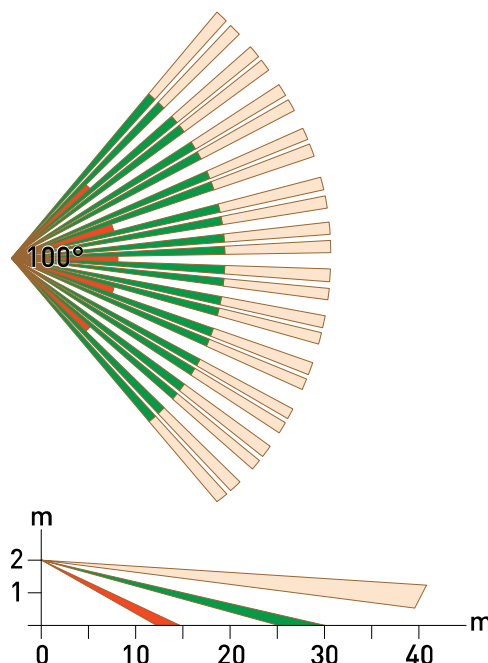
The sensitivity, the detection mode and the LED indication are set from the sensor's circuit board (see figure overleaf).



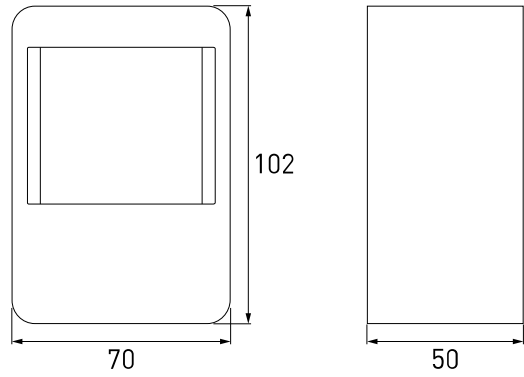
Key Features

- 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.

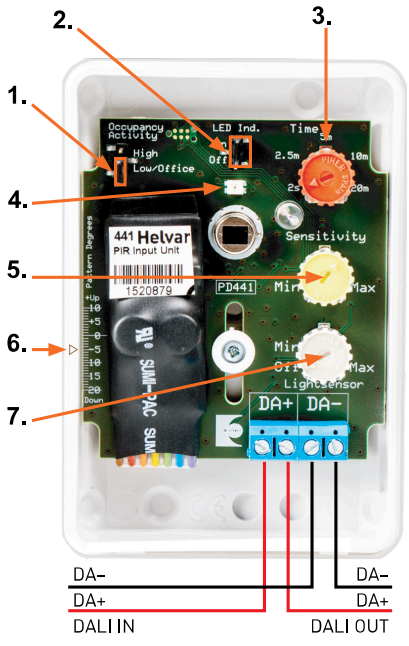
Presence detection coverage when vertical adjustment at -5° (Default)



Dimensions (mm)



Connections and Controls



- 1. Presence detection mode: Set according to application.
- 2. Indicator LED (ON/OFF)
- 3. Not used: Always set to 2 s.
- 4. LED detection indicator.
- 5. PIR sensitivity: Normally set to 1 o' clock.
- 6. Vertical alignment mark.
- 7. Not used: Always set to 'Off'.

Technical Data

Connections

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

Electrical data

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

Sensor

Presence detector:	Passive infrared (PIR)
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Conformity and standards

Conformity:	
EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 60950
Environment:	Complies with WEEE and RoHS directives.

Mechanical data

Max. recommended mounting height:	2.5 m
Presence detection coverage area:	1470 m ² @ 2 m mounting height
Dimensions:	70 mm x 102 mm x 50 mm
Vertical adjustment:	-20° to +10°
Max. reach:	41 m
Material (casing):	UL94V-HB ABS
Finish / Colour:	Semi-matt / White RAL 9003
Weight:	93 g
IP code:	IP42

Operating and storage conditions

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

Software 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.