

Helvar

Tilting Microwave Detector (314)

The 314 Tilting Microwave Detector provides occupancy detection for the automatic control of DALI lighting loads. The unit detects movement using its highly sensitive microwave detector.

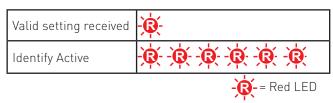
It emits low-power microwave signals and measures the reflections as the signals bounce off moving objects. The adjustable sensor head allows the area of detection to be optimised for the required application.

The unit is compatible with Helvar's lighting system design and control software: Designer, and Toolbox.

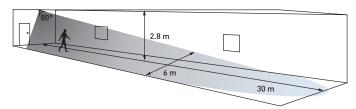
From hardware revision 4, the Tilting Microwave Detector can be used with a Helvar 401, 402 or 403 or a generic 12 V to 24 V power supply unit.

Key Features

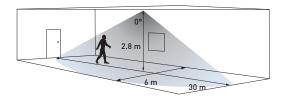
- The microwave sensor detects movement within the detection range allowing load control in response to changes in room occupancy.
- The IR receiver receives control and programming commands from a 303 Infrared Remote Control (available separately).
- Status LEDs flash red to indicate the following:



Detection Pattern



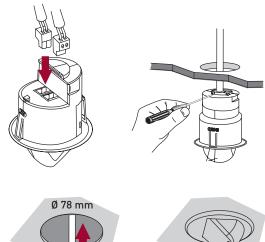
Detector head position at 80° to the vertical for large offices or classrooms, and for corridor and aisles. Sensitivity set to maximum.

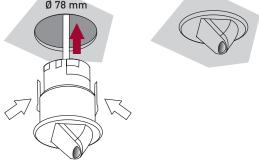


Detector head position at 0° to the vertical for open plan areas and offices. Sensitivity set to maximum.

Freedom in lighting C

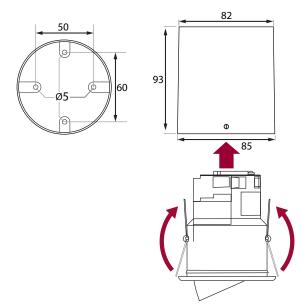
Installation: Mounting Hole





Installation: Surface Back Box SBB-B

Note: Order the SBB-B surface mount box separately.





Technical Data

freedom in lighting

Connections

External power / DALI: Removable terminal block

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 to 22.5 V

DALI consumption: 40 mA

Note: DALI consumption is less than 2 mA when external power

is supplied to the unit.

(Optional) External Power: 12 V to 24 V; 0.5 W

Remote control functions

Use Helvar 303 remote control to:

- recall lighting scenes 1-4;

adjust light levels;store current level; andinstall preset levels for

scenes 1–4.

Note: Adjust sensitivity using Designer, or Toolbox (not by

remote control unit).
Factory setting for sensor

sensitivity: 9 (maximum).

Microwave operating frequency

Model	Frequency
314	10.687 GHz
	China, Hong Kong, India,
	Malaysia, Middle East,
	Singapore, UK
314/R2	10.525 GHz
	Australia, Europe except for
	Austria, France, Germany,
	Ireland, Portugal, Slovakia,
	Switzerland and the UK
314/R3	9.900 GHz
	France, Portugal, Switzerland

Mechanical data

Mounting hole diameter: 78 mm **Bezel diameter:** 85 mm

Recommended 80 mm (without protective

clearance depth cover)

(incl. 50 mm for cabling): 100 mm (with protective cover)

Material (casing): Flame retardant ABS

and PC/ABS

Finish / Colour: Matt / White RAL 9003

 Weight:
 124 g

 IP code:
 IP30

Operating conditions

Ambient temperature: +10 °C to +35 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: $-10 \, ^{\circ}\text{C}$ to $+70 \, ^{\circ}\text{C}$

Conformity and standards

 EMC immunity:
 EN 61000-6-1

 EMC emission:
 EN 61000-6-3

 Safety:
 EN 60730-1

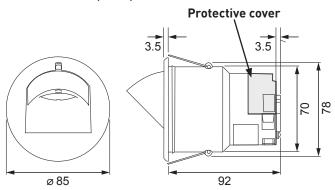
Environment: Complies with WEEE and RoHS

directives.

Version information

Software version: 6
Hardware version: Rev. 4

Dimensions (mm)



Hole diameter: Ø 78 mm