

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.

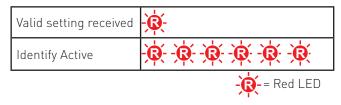
It emits low-power microwave signals and measures the reflections as the signals bounce off moving objects. The adjustable sensor head allows the area of detection to be optimised for the required application.

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.

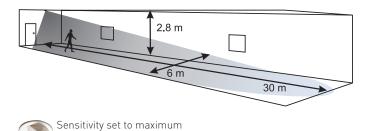
Key Features

- 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 IR (infrared) handset (available separately).
- Status LEDs flash red to indicate the following:



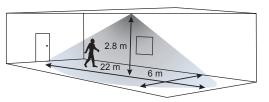
Detection Pattern

Ideal for large office or classroom, and for corridor and aisle applications



Ideal for open plan areas and offices

Detector head position: 80°



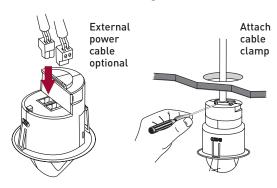


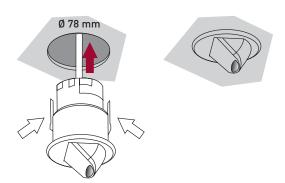
Sensitivity set to maximum detector head position: 0°

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freedom in lighting

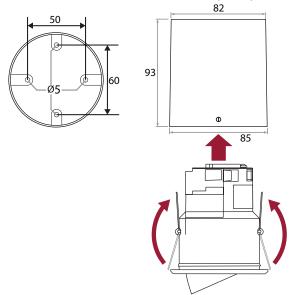
Installation: Mounting hole





Installation: Surface back box SBB-A

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





Technical Data

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Connections

External power / DALI: Removable terminal block

Wire size: 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:

3 remote - 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).

Microwave operating frequency

Model	Frequency
314	10.687 GHz
	UK, China, Hong Kong,
	India, Malaysia, Middle East,
	Singapore
314/R2	10.525 GHz
	Australia, and Europe, except
	for: UK, France, Portugal,
	Germany, Switzerland,
	Austria, Slovak Republic,
	Republic of Ireland
314/R3	9.900 GHz
	France, Portugal,
	Switzerland
314/R4	9.350 GHz
	Austria, Germany, Slovak
	Republic
314/R5	10.41 GHz
	Republic of Ireland

Mechanical data

Mounting hole diameter: 78 mm

Bezel diameter: 85 mm

Recommended 80 mm (without protective

clearance depth (incl. cover);

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: $+10 \, ^{\circ}\text{C}$ to $+35 \, ^{\circ}\text{C}$

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

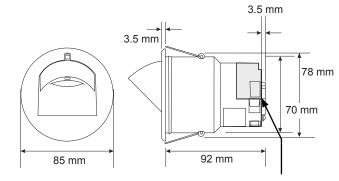
Environment: Complies with WEEE

and RoHS directives

Version information

Software version: 6
Hardware version: Rev. 4

Dimensions



Hole diameter: Ø78 mm Protective cover