

# 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.

This product is compatible with Helvar's lighting system design and control software: Designer, and Toolbox. It can also be controlled using a Helvar infrared remote handset.

The unit can be mounted into a ceiling or wall void, or onto a solid surface using Helvar's SBB-A back box (available separately).

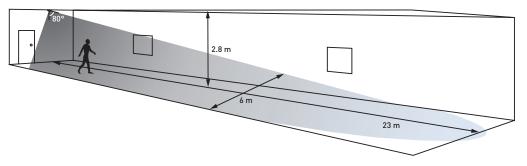
From hardware revision 4, the Tilting Microwave Detector can be used with a Helvar 401, 402 or 403 or a generic 12 V to 24 V power supply unit.

### **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 Helvar infrared remote handset (available separately).
- The Status LEDs flash red to indicate the following:

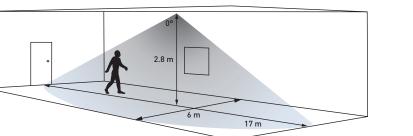
Valid setting received	- <b>(</b>
Identify Active	-\$-\$-\$-\$-\$-\$-\$-
	-Red LED

### **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.



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# Helvar

## **Technical Data**

Connections		IP code:	IP30
solid or stranded	Wire section: 0.5 mm <sup>2</sup> – 1.5 mm <sup>2</sup>	Operating conditions Ambient temperature:	0 °C to +50 °C
	solid or stranded All cables must be mains rated.	Relative humidity:	Max. 90 %, noncondensing
Power		Storage temperature: Conformity and standard	-10 °C to +70 °C
DALI supply input:	13 V to 22.5 V	EMC immunity:	EN 61000-6-1
	40 mA Note: DALI consumption is less	EMC emission:	EN 61000-6-3
	than 2 mA when external power	Safety:	EN 60730-1
(Optional) External	is supplied to the unit.	Environment:	Complies with WEEE and RoHS directives.
power:	12 V to 24 V; 0.5 W	Version information	
Remote control functions	5	Software version:	6
Use Helvar infrared remote handset to:	<ul> <li>Recall lighting scenes 1–4.</li> <li>Adjust light levels.</li> <li>Store current level.</li> <li>Install preset levels for scenes 1–4.</li> </ul>	Hardware version:	Rev. 4
		Software compatibility	
		Designer:	4.1 or later
	Note: Adjust sensitivity using Designer, or Toolbox (not by remote control unit).		
	Factory setting for sensor sensitivity: 9 (maximum).	Dimensions (mm)	Protective cover

### Microwave operating frequency

Model	Frequency
314	10.687 GHz China, Hong Kong, India, Malaysia, Middle East, Singapore, United Kingdom
314/R2	10.525 GHz Australia, Europe except for Austria, France, Germany, Ireland, Portugal, Slovakia, Switzerland and the United Kingdom
314/R3	9.900 GHz France, Portugal, Switzerland
Mechanical data	
Mounting hole diameter:	78 mm
Bezel diameter:	85 mm
Recommended clearance depth (incl. 50 mm for cabling):	80 mm (without protective cover) 100 mm (with protective cover)
Material (casing):	Flame retardant ABS and PC/ ABS
Finish / Colour:	Matt / White RAL 9003
Weight:	124 g

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Hole diameter: Ø 78 mm