

Tilting Microwave Detector (314, 314B)

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 or SBB-AB back boxes (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.

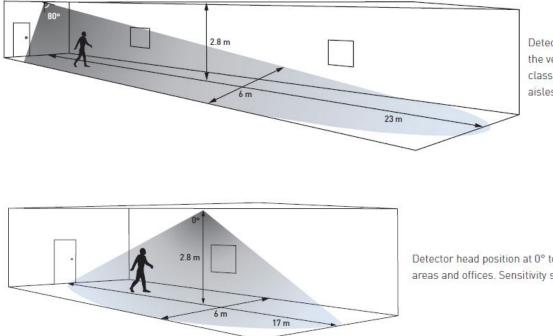


Key Features

- 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	- Q -
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.





Technical Data

Connections

External power / DALI:	Removable terminal block Wire section: 0.5 mm² – 1.5 mm² solid or stranded	EMC im EMC em Safety:
Cable rating:	All cables must be mains rated.	Environr
Power		
DALI supply input:	13 V to 22.5 V	Version
DALI consumption:	40 mA	Software
	Note: DALI consumption is less than 2 mA when external power is	Hardwar
	supplied to the unit.	Softwar
(Optional) External power:	12 V to 24 V; 0.5 W	Designe
Remote control functions		Toolbox
Use Helvar infrared remote handset to:	e – Recall lighting scenes 1–4. – Adjust light levels. – Store current level. – Install preset levels for scenes	

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

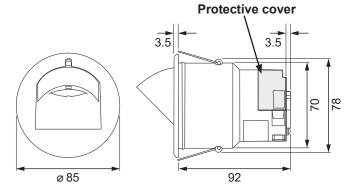
remote control unit). Factory setting for sensor sensitivity: 9 (maximum).

1–4.

Conformity and standards

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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
Software compatibility	
Designer:	4.1 or later
Toolbox:	2.2.16 or later

Dimensions (mm)



Hole diameter: Ø 78 mm



Microwave	operating	frequency
Model		Erequency

Model	Frequency		
314	10.687 GHz		
	China, Hong Kong, India, Malaysia,		
	Middle East, Singapore, United		
	Kingdom 10.525 GHz		
314/RZ	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		
	depth 80 mm (without protective cover)		
(incl. 50 mm for cabling):	100 mm (with protective cover)		
Material (casing):	Flame retardant ABS and PC/ABS		
Finish / Colour:	314:Matt / White RAL 9003		
	314B:Matt/ Anthracite Grey RAL 7016		
Weight:	124 g		
IP code:	IP30		
Operating conditions			
Ambient temperature:	0 °C to +50 °C		
Relative humidity:	Max. 90 %, noncondensing		
Storage temperature:	–10 °C to +70 °C		