

Low-Profile Microwave Detector (313, 313B)



The 313 Low-Profile 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.

When an area is no longer occupied, the load will switch off after a certain time. This time-out period is configured using Helvar's lighting system design and control software: Designer, or 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 Low-Profile Microwave Detector can be used with a Helvar 401, 402 or 403 or a generic 12 V to 24 V power supply unit.



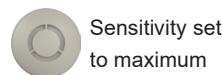
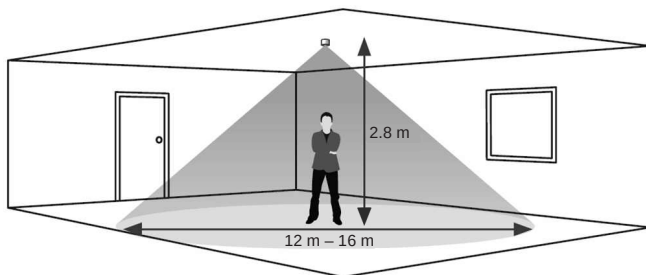
Key Features

- 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	
Identify active	

 = Red LED

Detection Pattern



Technical Data

Connections

External power / DALI: Removable terminal block
Wire section: 0.5 mm² – 2.5 mm²
solid or stranded

Cable rating: All cables must be mains rated.

Power

DALI supply input: 13 V to 22.5 V

DALI consumption: 20 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; 0.3 W

Remote control functions

Use Helvar infrared remote – Recall lighting scenes 1–4.
handset to:

- Adjust light levels.
- Store current level.
- Install 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

Frequency: 5.8 GHz

Mechanical data

Mounting hole diameter: 68 mm

Bezel diameter: 76 mm

Recommended clearance 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: 313: Matt / White RAL 9003
313B: Matt / Anthracite Grey RAL 7016

Weight: 90 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

Conformity and standards

EMC emission: EN 61000-6-1

EMC immunity: EN 61000-6-3

Safety: EN 60730-1

Environment: Complies with WEEE and RoHS directives.

Version information

Software version: 6

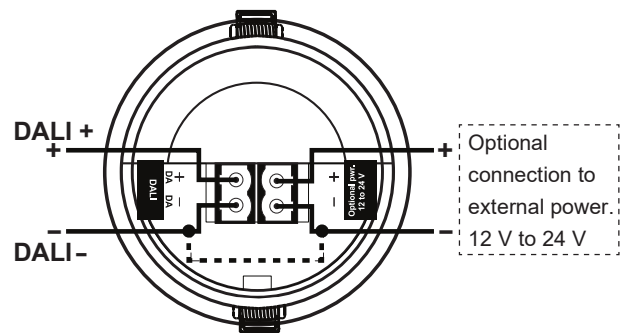
Hardware version: Rev. 4

Software compatibility

Designer: 4.1 or later

Toolbox: 2.2.16 or later

Connections



Dimensions (mm)

