

# Low-Profile Microwave Detector (313)

The 313 Low-Profile Microwave Detector provides occupancy detection for the automatic control of DALI lighting loads. The unit can also be controlled using the Helvar 303 Infrared Remote control handset.

The 313 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.

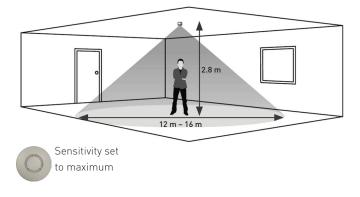
From hardware revision 4, the Low-Profile Microwave Detector can be used with a Helvar 401, 402 or 403 or a generic 12 V to 24 V power supply unit.

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

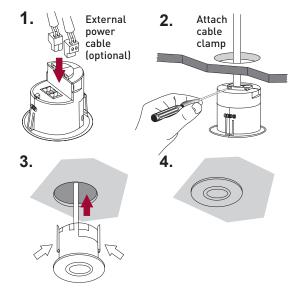
Valid setting received	
Identify active	
	-R-= Red LED

#### **Detection Pattern**



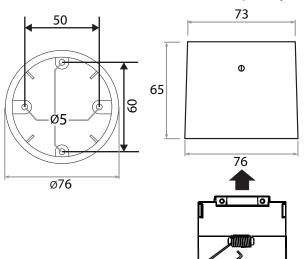


#### Installation: Mounting hole



#### Installation: Surface back box SBB-A

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



1



freedom in lighting

( (



## **Technical Data**

### Connections

External power / DALI:	Removable terminal block	
	Wire size: 0.5 mm <sup>2</sup> – 2.5 mm <sup>2</sup>	
	Solid or stranded	

### Cable rating:

Power

DALI supply input:

DALI consumption:

Solid or stranded All cables must be mains rated. 13 V to 22.5 V 20 mA Note: DALI consumption is less than 2 mA when external power is supplied to the unit.

(Optional) External Power:

### **Remote control functions**

Use Helvar 303 remote				
control to:				

- Recall lighting scenes 1–4
- Adjust light levels

12 V to 24 V; 0.3 W

 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).

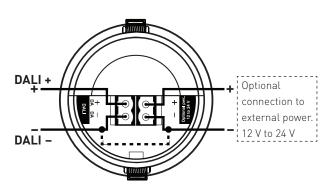
### Microwave operating frequency

Frequency:	5.8 GHz		
Mechanical data			
Mounting hole diameter:	68 mm		
Bezel diameter:	76 mm		
Recommended clearance depth:	80 mm (without protective cover) 100 mm (with protective cover) (incl. 50 mm for cabling)		
Material (casing):	Flame retardant ABS and PC/ ABS		
Finish/Colour:	Matt / White RAL 9003		
Weight:	90 g		
IP code:	IP30		
Operating conditions			
Ambient temperature:	0 °C to +35 °C		
Relative humidity:	Max. 90 %, noncondensing		
Storage temperature:	-10 °C to +70 °C		
Conformity and standards			
	EN (1000 / 1		

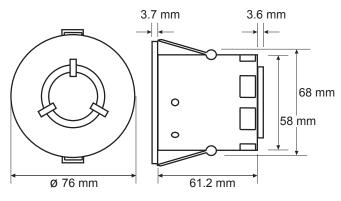
EMC emission:	EN 61000-6-1
EMC immunity:	EN 61000-6-3
Safety:	EN 60730-1
Environment:	Complies with WEEE and RoHS directives.

### Version information

Software version:	6
Hardware version:	Rev. 4



### Dimensions



### Hole diameter: Ø 68 mm

Helvar 313 MW Detector: Datasheet