

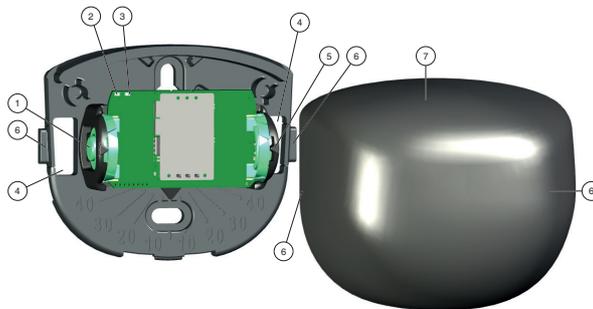
ECHO-M

Safety

This device must be installed and maintained only by qualified, trained personnel. Observe the safety requirements of EN 60950-1. Operate the sensor only with an SELV supply with a limited output of up to 100 W. Use a T2.5 A fuse, for example, to reliably limit the power output.

Use standard electrostatic discharge precautions when handling sensitive components.

Description



- 1 Push button, left: -
- 2 Detection indication: LED green
- 3 Push button indication: LED yellow
- 4 Cable entry (default)
- 5 Push button, right: +
- 6 Side cable entry (optional)
- 7 Cover

Removing the Cover

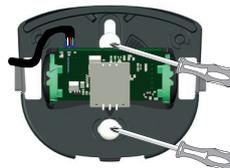
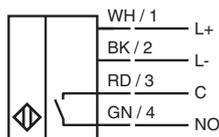
Before wall mounting



After wall mounting

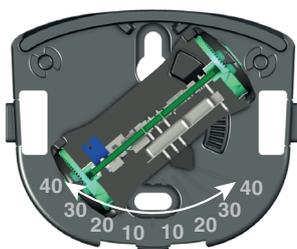


Installation

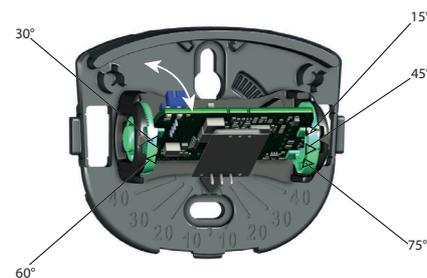


1. Insert the cable.
2. If necessary, break off the side cable entry.
3. Fasten the device with the provided screws.
4. Adjust the device in the desired vertical and horizontal angle.
5. Connect the cable to the terminal.

Mechanical Adjustments



Rotatable -40° ... +40° in steps of 5°



Adjustable 0° ... 90° in steps of 5°

Detection area size at mounting height 2.2 m with inclination angle 30°



- ECHO-M**
- Width: 4 m
 - Depth: 2 m



- ECHO-M narrow**
- Width: 2 m
 - Depth: 3.5 m

Technical Data

General specifications	
Operating frequency	24.15 ... 24.25 GHz K-Band
Transmitter radiated power (EIRP)	< 13 dBm
Electrical specifications	
Operating voltage	12 ... 24 V DC ± 10 %
No-load supply current	≤ 50 mA at 24 V DC
Power consumption	≤ 1.2 W
Output	
Signal output	solid-state relay
Switching voltage	max. 28 V AC / 36 V DC
Switching current	max. 0.1 A AC / 0.1 A DC
Hold time	1.5 s
Approvals and certificates	
CE conformity	2014/53/EU This device can be used in all countries within the European Union. In other countries, all applicable national regulations must be observed.
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Operating temperature	-20 ... 55 °C (-4 ... 131 °F)
Mechanical specifications	
Mounting height	max. 3 m
Degree of protection	IP54
Mass	approx. 70 g
Dimensions	75 mm x 64 mm x 44 mm

Commissioning

When the operating voltage is applied, the sensor starts up. The yellow and green LED flash for approximately 8 s. The sensor is ready for operation.

Commissioning via Push Button

To set the detection area size and the value of the menu, use the push buttons "+" and "-."

Action / Result	LED yellow (value)	LED green (detection)
Setting Detection Area Size		
<p>Press "+" OR "-"</p>	<p>The yellow LED indicates the value of the function. 1 = small detection area ... 9 = large detection area</p> <p>1x ... 9x default: 7x </p>	<p> = detection</p>



Tip

Check the settings of the device by walking within range of the sensor.