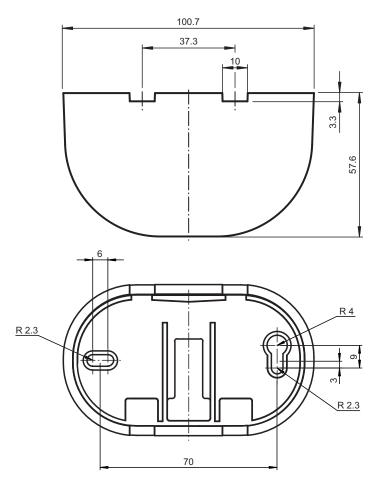
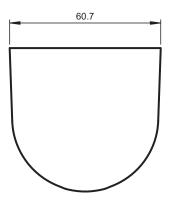


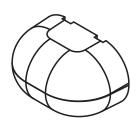
FCC-approved standard radar motion sensor with basic functionality. 2 m x 4.5 m detection range. Max 4 m mounting height. Black housing. Relay contact output. Cable connection.

#### **Function**

### Dimensions







Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

# **Technical Data**

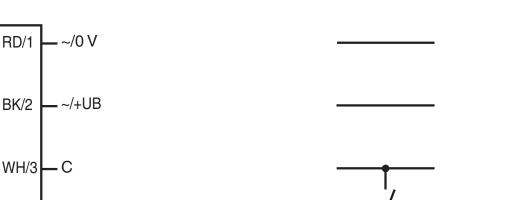
General specifications		
Sensing range		broad: 2000x 4500 mm (DxW) at 2200 mm mounting height and 30° tilt angle narrow: 4500x 2000 mm (DxW) at 2200 mm mounting height and 30° tilt angle
Function principle		Microwave module
Detection speed		min. 0.1 m/s
Setting angle		0 90 ° in 5 ° increments
Operating frequency		24.075 24.175 GHz K-Band
Operating mode		Radar motion sensor
Transmitter radiated power (EIRP)		< 20 dBm
Functional safety related parameters		
MTTF <sub>d</sub>		970 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		LED red
Control elements		potentiometer
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	UB	12 36 V DC , 12 28 V AC
No-load supply current	lo	≤ 50 mA at 24 V DC
Power consumption	Po	≤ 1.7 W
Output		
Switching type		NO/NC
Signal output		relay
Switching voltage		max. 48 V AC / 48 V DC
Switching current		max. 0.5 A AC / 1 A DC
Switching power		max. 24 W / 60 VA
De-energized delay	t <sub>off</sub>	0.5 s
Approvals and certificates		
FCC approval		FCC Rules part 15 / This device can be used in the USA.
IC approval		RSS210 Issue 8.0 / This device can be used in Canada.
Approvals		Use in countries within the European Union is not permitted. In other countries, all applicable national regulations must be observed.
Ambient conditions		
Operating temperature		-20 60 °C (-4 140 °F)
Storage temperature		-30 70 °C (-22 158 °F)
Relative humidity		max. 90 % non-condensing
Mechanical specifications		
Mounting height		max. 4000 mm
Degree of protection		IP54
Connection		Connecting cable 2.5 m included with delivery
Material		
Housing		PC/ABS black
Mass		130 g
Dimensions		101 mm x 60 mm x 59 mm
Suitable series		
Series		RaDec

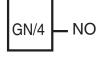
 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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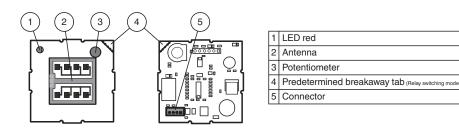
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# Assembly



# Application

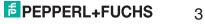


# Accessories

**RaDec Weather Cap** 

Weather hood for radar sensors series RaDec

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



# Commissioning

#### **Sensing Range**

A narrower or wider sensing area can be achieved with turning the plug-in antenna.

Wide:



Mounting height 2200 mm / tilt angle 30° Antenna position:



Narrow:



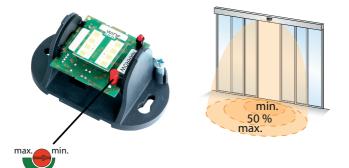
Mounting height 2200 mm / tilt angle 30° Antenna position:



The detection field can be swivelled in 10 steps from  $0^\circ \dots 90^\circ.$ 

#### **Sensitivity Settings**

The sensitivity potentiometer can be used to adjust the size of the detection field.



### Accessories

Other suitable accessories can be found at www.pepperl-fuchs.com

### **Function Principle**

Microwave sensors are microwave scanners that use the principle of the Doppler radar. The most important requirement for microwave detection is that the object to be detected is moving. Some applications include controlling automatic and industrial doors.

The microwave sensors emit microwaves of a defined frequency in order to detect people and large objects moving at speeds between 100 mm/sec and 5 m/sec. Stationary people or objects are not detected. Based on the latest 24 GHz technology with integrated microprocessor control, these sensors provide a high degree of reliability even in difficult operating conditions. The 24 GHz frequency, known as the 'K-band,' is reserved by CETECOM for this application area worldwide.

## Application

- · Opening impulse sensors for automatic doors and industrial doors
- Monitoring approach areas to elevators
- · Motion sensors for people and objects
- · Impulse sensors for escalators

Refer to "General Notes Relating to Pepperl+Fuchs Product Information



 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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