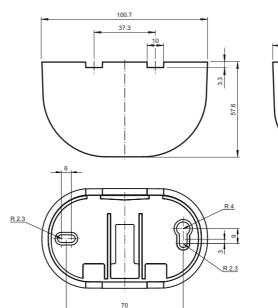
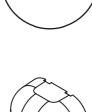
## Radar sensor



## Dimensions





60.7

## **Model Number**

## RaDec-M-NA

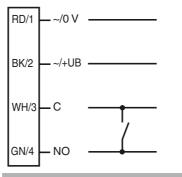
Radar sensor

## Features

- Standard radar motion sensor with basic functionality
- Reliable detection of people and ve-• hicles
- Simplest adjustement of the sensing range
- Wide range of sensitivity adjustment •
- Wall and ceiling mountable
- Version with FCC-frequency

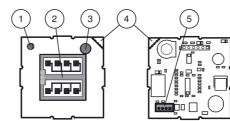
## **Product information**

The RaDec series are affordable microwave motion sensors that combine all the key requirements of door manufacturers in a compact, stylish device that is both user-friendly and easy to install. An integrated microprocessor with 24 GHz microwave technology ensures high reliability even under difficult conditions. The sensor also offers two adjustable sensing areas, different operating modes, an installation height of 4 m, and operates in a temperature range of -20°C to +60°C.



**Electrical connection** 

# Indicators/operating means



1	LED red
2	Antenna
3	Potentiometer
4	Predetermined breakaway tab (Relay switching mode)
5	Connector

Pepperl+Fuchs Group

www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



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   090° in 5° increments     Operating frequency   24.075 24.175 GHz K-Band     Operating mode   Radar motion sensor     Transmitter radiated power (EIRP)   < 20 dBm     Tunctional safety related parameters   970 a     Mission Time (T <sub>M</sub> )   20 a     Diagnostic Coverage (DC)   0%     Ontrol elements   sensitivity adjustment     Electrical specifications   potentiometer     Control elements   sensitivity adjustment     Electrical specifications   0potentiometer     Operating voltage   Up   1236 V DC, 12 28 V AC     No-load supply ourrent   10   <5 0 mA at 24 V DC     Power consumption   P0   <1.7 W     Dutput   max. 48 V AC / 48 V DC   Switching voltage     Switching voltage   max. 48 V AC / 48 V DC     Switching power   max. 48 V AC / 48 V DC     Switching power   .0	Technical data		
30° tilt angle narrow: 4500 2000 mm (DxW) at 2200 mm mounting height and 30° tilt angleFunction principleMicrowave moduleDetection speedmin. 0.1 m/sSetting angle $090$ ° in 5 ° incrementsOperating modeRadar motion sensorTransmitter radiated power (EIRP)<20 dBm <b>Control a setty related parameters</b> 970 aMTTFq970 aMission Time (T <sub>M</sub> )20 aDiagnostic Coverage (DC) $0^{\circ}$ Ondicators/Deperating meanspotentiometerFunction indicatorLED redControl elementssensitivity adjustmentElectrical specifications1236 V DC, 1228 V ACOperating voltageUg $\leq 50$ mA at 24 V DCPower consumptionP0 $\leq 51.7$ WDutyrelaySwitching typeNO/NCSignal outputrelayswitching outputrelaySwitching voltageMax. 48 V AC / 48 V DCSwitching voltagemax. 48 V AC / 48 V DCSwitching outputrelaySwitching outputrelayMuenting heightmax. 400 mmDeperating temperature-20 60 °C (4 140 °F)Storage temperature-30 70 °C (-22 158 °F)Relative humiditymax. 400 mmDegred of protectionIP54Connecting cable 2.5 m included with deliveryMaterialMax. 4000 mmDegred of protectionIP54Connecting cable 2.5 m included with deliveryMaterialMaxesHousingPC	General specifications		
Detection speedmin. 0.1 m/sSetting angle090 ° in 5 ° incrementsOperating frequency24.07524.175 GHz K-BandOperating modeRadar motion sensorTransmitter radiated power (EIRP)< 20 dBm	Sensing range		30° tilt angle narrow: 4500x 2000 mm (DxW) at 2200 mm mounting height
Setting angle0 90 ° in 5 ° incrementsOperating frequency24.075 24.175 GH2 K-BandOperating modeRadar motion sensorTransmitter radiated power (EIRP)< 20 dB	Function principle		Microwave module
Operating frequency24.075 24.175 GHz K-BandOperating modeRadar motion sensorTransmitter radiated power (EIRP)<20 dBm	Detection speed		min. 0.1 m/s
Operating modeRadar motion sensorTransmitter radiated power (EIRP)< 20 dBm	Setting angle		0 90 ° in 5 ° increments
Transmitter radiated power (EIRP)   <20 dBm			
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unctional principle	Functional principle		

#### Functional 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.

# **Typical applications**

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

## **Detection area**



#### Accessories

**RaDec Weather Cap** Weather hood for radar sensors series RaDec

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

Pepperl+Fuchs Group www.pepperl-fuchs.com

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USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com



### Sensing range

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

#### Wide:



Narrow:



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



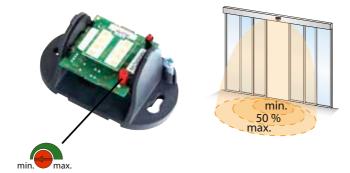
Mounting height 2200 mm / tilt angle 30° Antenna position:



The detection field can be swivelled in 10 steps from 0° to 90°.

### Sensitivity settings

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



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