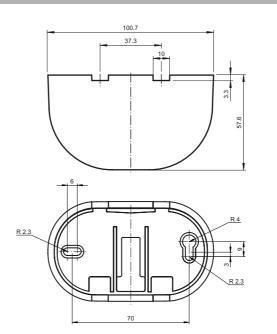
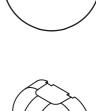
Radar sensor



Dimensions





60.7

CE

Model Number

RaDec-M

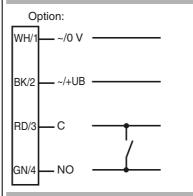
Radar sensor

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 ٠
- Wall and ceiling mountable ٠

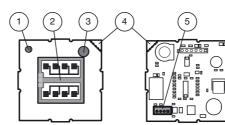
Product information

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

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Technical data			Typical
General specifications			• Openin
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	 Openir doors a Monito Motion Impulse
Function principle		Microwave module	
Detection speed		min. 0.1 m/s	
Marking		CE	Detecti
Setting angle		0 90 ° in 5 ° increments	Dottooti
Operating frequency		24.15 24.25 GHz K-Band	
Operating mode		Radar motion sensor	
Transmitter radiated power (EIR	P)	< 20 dBm	
Functional safety related para	neters		
MTTF _d		970 a	
Mission Time (T _M)		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 I ₀		≤ 50 mA at 24 V DC	
Power consumption P ₀		≤ 1.7 W	
Output	Ū		
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	Access
Switching power		max. 24 W / 60 VA	RaDec \
De-energized delay	t _{off}	0.5 s	Weather RaDec
Ambient conditions			
Operating temperature		-20 60 °C (-4 140 °F)	
Storage temperature		-30 70 °C (-22 158 °F)	Other su
Relative humidity		max. 90 % non-condensing	www.pep
Mechanical specifications			
Mounting height		max. 4000 mm	
Degree of protection		IP54	
Connection		Connecting cable 2.5 m included with delivery	
Material			
Housing		black polycarbonate (PC)	
Mass		130 g	
Dimensions		101 mm x 60 mm x 59 mm	
Suitable series			
Series		RaDec	
Compliance with standards an ves	d direct	-	
Directive conformity			
R&TTE Directive 1995/5/EC		This device can be used in all countries within the European Union. Use in North America is not permitted. In other coun- tries, all applicable national regulations must be observed.	
Standard conformity		EN 62311, EN 60950-1, EN 301 489-1, EN 301 489-3, EN 300 440-2	
Functional principle			
Microwave sensors are micro	owave s	canners 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.

applications

- ng impulse sensors for automatic and industrial doors
- pring approach areas to elevators
- sensors for people and objects
- e sensors for escalators

on area



sories

Weather Cap r hood for radar sensors series

itable accessories can be found at perl-fuchs.com

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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:



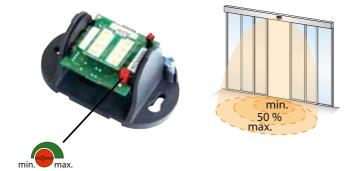
Mounting height 2200 mm / tilt angle 30° Antenna position:



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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