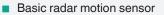


Radar motion sensor

ECHO-M white narrow



- Detection of people and objects for automatic doors
- Simplest adjustment of the sensing range
- Wall and ceiling mountable

Basic radar motion sensor, detection range 3.5 m x 2 m, max. installation height 3 m, white housing, solid-state relay, cable adapter

Function

This device is a radar motion sensor with basic functionality. The functionality is based on the 24 GHz radar technology. The sensor is integrated in a simple and well-designed housing. The opening impulse sensor is easy to mount and to commission. The built-in antenna enables unidirectional sensing. This version has a narrow detection area.

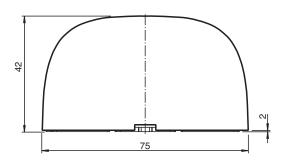
Application

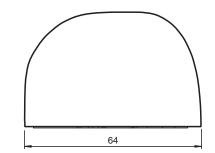
- · Opening impulse sensors for automatic doors and industrial doors
- Monitoring approach areas to elevators
- · Motion sensors for people and objects
- Impulse sensors for escalators

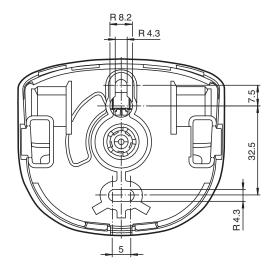
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



Dimensions





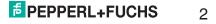


Technical Data

General specifications		
Sensing range		3500 x 2000 mm (DxW) at 2200 mm mounting height and 30° inclination angle
Function principle		Microwave module
Detection speed		min. 0.1 m/s
Setting angle		
Rotation angle		-40 40 ° in 5 ° increments
Inclination angle		0 90 ° in 5 ° increments
Operating frequency		24.15 24.25 GHz K-Band
Operating mode		Radar motion sensor
Transmitter radiated power (EIRP)		< 13 dBm
Functional safety related parameters		
MTTF _d		766 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		detection : LED green push button indication : LED yellow
Control elements		sensitivity adjustment with push button
Electrical specifications		
Operating voltage	UB	12 24 V DC ± 10 %
No-load supply current	I ₀	≤ 50 mA at 24 V DC
Power consumption	P ₀	≤ 1.2 W

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

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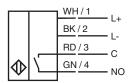


ECHO-M white narrow

Technical Data

utput	
O Shahi a ha a	
Switching type	Normally open (NO)
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
pprovals 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
mbient conditions	
Operating temperature	-20 55 °C (-4 131 °F)
Storage temperature	-30 70 °C (-22 158 °F)
Relative humidity	max. 90 % non-condensing
echanical specifications	
Mounting height	max. 3 m
Degree of protection	IP54
Connection	cable Adapter 35 mm included with delivery ; for conductor cross section 0.2 \dots 0.5 mm^2
Material	
Housing	PC (Polycarbonate)
Mass	approx. 70 g
Dimensions	75 mm x 64 mm x 44 mm

Connection

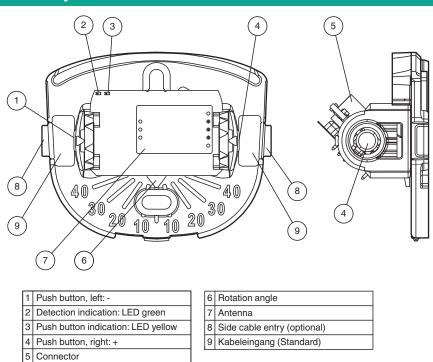


Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

3

Radar motion sensor

Assembly



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 doors and industrial doors.

The microwave sensors emit microwaves of a defined frequency to detect people and large objects moving at speeds between 100 mm/s ... 2 m/s. Stationary people or objects are not detected.

Based on the latest 24 GHz technology with integrated microprocessor control, these sensors provide a high level of reliability, even in difficult operational conditions. The 24 GHz frequency, known as 'K-band,' is reserved by CETECOM for this application area all round the world.

Accessories				
۲	RADAR Ceiling Kit wh	Ceiling mount kit for RADAR sensors		
~	Radar Cable 2.5m	Connection cable between connector socket and on-site connection		

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

4