Radar motion sensor

RaCon-D-BLE-NA BK



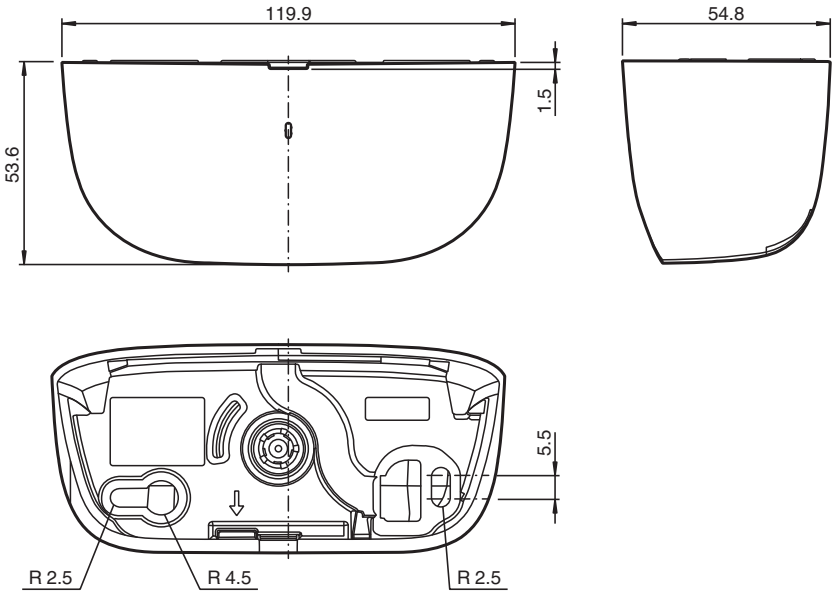
- Version with Bluetooth App
- Premium radar motion sensor
- Detection of people and objects for automatic doors
- Fine tuning of functions and setting adjustment range
- Remote control or push button for functionality setting
- Wall and ceiling mountable

Premium radar motion sensor with premium functionality, detection range 2 m x 4.5 m, max. installation height 4 m, black housing, solid-state relay, cable connection

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

Dimensions



Technical Data

General specifications		
Sensing range		2000 x 4500 mm (DxW) at 2200 mm mounting height and 60° inclination angle 4000 x 2000 mm (DxW) at 2200 mm mounting height and 60° inclination angle
Function principle		Microwave module

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Technical Data

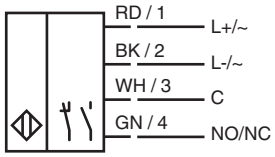
Detection speed		min. 0.05 m/s
Setting angle		
Rotation angle		-30 ... 30 ° in 5 ° increments
Inclination angle		0 ... 90 ° in 5 ° increments
Operating frequency		24.075 ... 24.175 GHz K-Band
Operating mode		Radar motion sensor
Transmitter radiated power (EIRP)		< 13 dBm
Functional safety related parameters		
$MTTF_d$		400 a
Mission Time (T_M)		15 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		detection : LED green push button indication : LED yellow / green
Control elements		Push button for selection of operating modes : sensitivity , direction detection , cross-traffic suppression , slow-motion mode , relay switching type, hold time, immunity, swing door mounting
Control elements		Operation mode selection alternativly via remote control (Accessories ordered separately)
Electrical specifications		
Operating voltage	U_B	12 ... 24 V DC , - 10 % / +30 % 12 ... 24 V AC , 50 ... 60 Hz , -10 % / +15 %
No-load supply current	I_0	≤ 40 mA at 24 V DC
Power consumption	P_0	≤ 0.96 W ≤ 1.2 VA
Output		
Switching type		Normally open/closed (NO/NC)
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		min. 1.5 s max 20 s
Approvals and certificates		
FCC approval		FCC ID: 2AXZARACONDBLENA Contains FCC ID: 2AC7Z-ESPC3WROOM This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
IC approval		IC ID: 7037A-RACONDBLENA Contains IC: 21098-ESPC3WROOM This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Ambient conditions		
Operating temperature		-25 ... 55 °C (-13 ... 131 °F)
Storage temperature		-30 ... 70 °C (-22 ... 158 °F)
Relative humidity		max. 90 % non-condensing
Mechanical specifications		
Mounting height		max. 4 m
Degree of protection		IP54
Connection		Connecting cable 2.5 m included with delivery
Material		
Housing		PC (Polycarbonate)
Mass		approx. 120 g
Dimensions		120 mm x 55 mm x 54 mm
Height		55 mm
Width		120 mm

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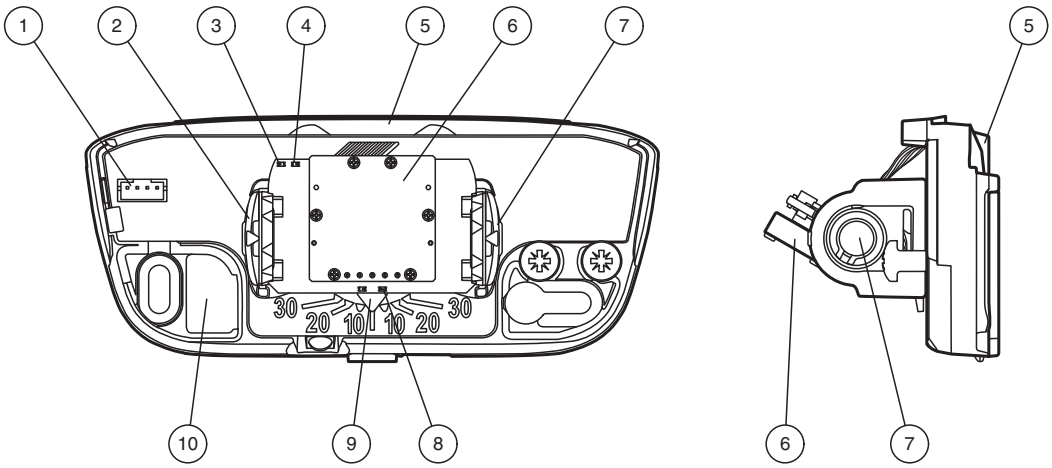
Technical Data

Depth	54 mm

Connection Assignment



Operation



1	Connector
2	Push button, left: -
3	Push button and detection indication: LED green
4	Push button indication: LED yellow
5	above cable entry (optional)

6	Antenna
7	Push button, right: +
8	Detection: LED green
9	Rotation angle
10	Cable entry (default)

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 0.05 m/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.

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