

RO710905**RADAR SENSORS • RADAR SENSORS**

Radar sensors are used primarily as signal transducers for controlling automatic doors and gates. They detect the movement of persons and/or industrial trucks and, at the same time, are insensitive to soiling. Objects can be detected depending on their movement direction in order to optimize the opening cycles of the gates. In doing so, it is possible to mask out people so that the sensor responds only when vehicles approach. Furthermore, it is possible to eliminate interference caused by moving objects within the detection range of the sensor. Systems that are also equipped with presence detection monitor the area in front of a gate in order to prevent the gate leaf from coming into contact with vehicles or objects.

**MECHANICAL DATA**

Ambient temperature (MAX)	60 °C
Ambient temperature (MIN)	-30 °C
Cable length	10 m
Housing material	Polycarbonate
Inclination angle (MAX)	22 °
Inclination angle (MIN)	-8 °
Installation height	3500 mm
Installation height	2000 mm
Mounting height	3.5 m
Number of wires	7
Optimum mounting height	3.5 m
Sensor height	102 mm
Sensor length	96 mm
Sensor width	127 mm
Suitable for degree of protection (IP)	IP65
Version	Motion sensor/presence sensor

ELECTRICAL DATA

Detection range length, radar	2 m
Detection range width, radar	4 m
For control of industrial doors and gates	Yes
Holding time	0.5 s
Max. output current	1000 mA
Min. speed	0.05 m/s
Number of switching outputs	2
Operating voltage (MAX)	24 V
Operating voltage (MIN)	12 V
Power consumption	3.5 W
Reaction time	100 ms
Setting procedure	Parameterization
Setting via remote control	Yes

ELECTRICAL DATA

Switching voltage	42 V
Transmitting frequency	24.12 GHz
Transmitting power, radar	5 mW/cm ²
Turn-off delay	Yes
Type of electrical connection	Cable
Type of switching function	Change-over contact
Type of switching output	Relay contact
Voltage type	AC/DC
With LED display	Yes

OPTICAL DATA

Detection range length, infrared	4 m
Detection range width, infrared	4 m
Light source	Infrared light
Power density of infrared diode	250 mW/cm ²
Wavelength of the sensor	875 nm

DIMENSIONAL DRAWING**INSTALLATION**

Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL**SAFETY WARNINGS**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.