

## RT450900

### 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	-20 °C ... 55 °C
For mounting in installation socket	Yes
Housing material	Polycarbonate
Sensor height	85 mm
Sensor length	45 mm
Sensor width	85 mm
Suitable for degree of protection (IP)	IP30
Version	Movement sensor
Wire cross section	1.31 mm <sup>2</sup>

#### ELECTRICAL DATA

Holding time	0.5 s
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Max. output current	1000 mA
Min. speed	0.03 m/s
Number of switching outputs	1
Operating voltage	12 V ... 24 V
Power consumption	1.2 W
Sensing range	100 mm ... 500 mm
Setting procedure	Manual adjustment
Switching voltage	48 V
Transmitting frequency	24.12 GHz
Transmitting power, radar	5 mW/cm <sup>2</sup>
Type of electrical connection	Clamp
Type of switching function	Change-over contact
Type of switching output	Relay contact
Voltage type	AC/DC
With LED display	Yes

**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!