

**RO570900**
**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                    | -25 °C ... 55 °C              |
| Cable length                           | 10 m                          |
| Housing material                       | Plastic                       |
| Inclination angle                      | -7 ° ... 4 °                  |
| Installation height                    | 4000 mm                       |
| Installation height                    | 2000 mm                       |
| Mounting height                        | 3 m                           |
| Number of wires                        | 8                             |
| Optimum mounting height                | 3 m                           |
| Sensor height                          | 58 mm                         |
| Sensor length                          | 57 mm                         |
| Sensor width                           | 270 mm                        |
| Suitable for degree of protection (IP) | IP54                          |
| Version                                | Motion sensor/presence sensor |

**ELECTRICAL DATA**

|   |                  |
|---|------------------|
| Detection range length, radar             | 2.5 m            |
| Detection range width, radar              | 4.5 m            |
| For control of industrial doors and gates | Yes              |
| Holding time                              | 1 s              |
| Holding time                              | 0.3 s            |
| Max. output current                       | 100 mA           |
| Min. speed                                | 0.05 m/s         |
| Number of pins                            | 8                |
| Number of switching outputs               | 2                |
| Operating voltage                         | 12 V ... 24 V    |
| Power consumption                         | 2.5 W            |
| Reaction time                             | 200 ms           |
| Setting procedure                         | Parameterization |
| Setting via remote control                | Yes              |
| Switching voltage                         | 42 V             |

**ELECTRICAL DATA**

|                               |   |
|-------------------------------|---|
| Transmitting frequency        | 24.12 GHz                                     |
| Transmitting power, radar     | 5 mW/cm <sup>2</sup>                          |
| Turn-off delay                | Yes   |
| Type of electrical connection | Cable with connector                          |
| Type of switching function    | Normally closed contact/normally open contact |
| Type of switching output      | Relay contact                                 |
| Voltage type                  | AC/DC   |
| With LED display              | Yes   |

**OPTICAL DATA**

|                                  |                |
|----------------------------------|----------------|
| Detection range length, infrared | 0.5 m          |
| Detection range width, infrared  | 3.5 m          |
| Light source                     | Infrared light |
| 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!