



RAS407-2801000

RAS4xx

RADAR SENSORS





Ordering information

Туре	part no.
RAS407-2801000	1072142

Other models and accessories → www.sick.com/RAS4xx

Detailed technical data

Features

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Measurement principle	FMCW HF
Radio approval	Europe ¹⁾
Frequency band	24 GHz 24.25 GHz ²⁾
Aperture angle	
Horizontal	± 3.5°
Vertical	± 14°
Working range	0.2 m 20 m

 $^{^{1)}}$ Except UK and France.

Mechanics/electronics

Connection type	1 x Cable open end
Supply voltage	10 V DC 30 V DC
Power consumption	8 W
Housing color	Gray
Enclosure rating	IP65
Protection class	III ¹⁾
Weight	580 g
Dimensions (L x W x H)	101 mm x 151 mm x 60 mm
MTBF	56 years

 $^{^{1)}}$ When using SELV or PELV power supply units.

Safety-related parameters

MTTF _D	> 100 years
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Performance

Response time	< 0.5 s
Integrated application	Collision avoidance
Number of field sets	3 fields

Interfaces

USB	✓

 $^{^{2)}}$ Other values are permitted for compliance with country-specific regulations.

Function	Parameterization
Digital outputs	3 (relays)

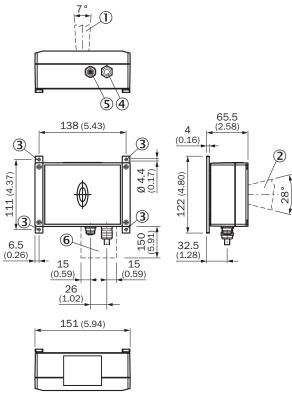
Ambient data

Electromagnetic compatibility (EMC)	ETSI EN 301 489-1 / ETSI EN 301 489-3
Vibration resistance	EN 60068-2-6 EN 60068-2-64
Shock resistance	EN 60068-2-27
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-20 °C +60 °C

Classifications

ECLASS 5.0	27270890
ECLASS 5.1.4	27270890
ECLASS 6.0	27270890
ECLASS 6.2	27270890
ECLASS 7.0	27270890
ECLASS 8.0	27270890
ECLASS 8.1	27270890
ECLASS 9.0	27270890
ECLASS 10.0	27270807
ECLASS 11.0	27270807
ECLASS 12.0	27274501
ETIM 5.0	EC001825
ETIM 6.0	EC001825
ETIM 7.0	EC001825
ETIM 8.0	EC001825
UNSPSC 16.0901	39121528

Dimensional drawing RAS407-28010xx



Dimensions in mm (inch)

- ① angle horizontal
- 2 angle vertical
- 3 Mounting holes, 4 x Ø 4.4 mm
- 4 power supply
- ⑤ USB port
- ® Recommended free space for connections

Detection area RAS407

Working distance in m (feet)

Recommended accessories

Other models and accessories → www.sick.com/RAS4xx

	Brief description	Туре	part no.	
Mounting syst	Mounting systems			
	Description: Pivot mounting bracket, incl. assembly material	Mounting bracket	2061737	
connectors and cables				
66	Connection type head A: Male connector, USB, 5-pin Connection type head B: Male connector, M12 Signal type: USB 2.0 Cable: 3 m Description: USB 2.0, unshielded	YM2Z15-030XXXMUSAX	2079580	

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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