

RAS407-2800101

RAS4xx

RADAR SENSORS





Ordering information

Туре	part no.
RAS407-2800101	1072145

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

Detailed technical data

Features

Measurement principle	FMCW HF
Radio approval	China, France ¹⁾
Frequency band	24.05 GHz 24.25 GHz ²⁾
Aperture angle	
Horizontal	± 3.5°
Vertical	± 14°
Working range	0.2 m 20 m

¹⁾ France fixed installation.

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	980 g
Dimensions (L x W x H)	101 mm x 151 mm x 60 mm ²⁾ 101 mm x 151 mm x 60 mm ³⁾
MTBF	56 years

¹⁾ When using SELV or PELV power supply units.

Safety-related parameters

MTTF _D	> 100 years
Performance	
Response time	< 0.5 s
Integrated application	Collision avoidance

Interfaces

Number of field sets

USB	✓

3 fields

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

²⁾ Evaluation unit.

³⁾ Sender/receiver unit.

Function	Parameterization
Digital outputs	3 (relays)

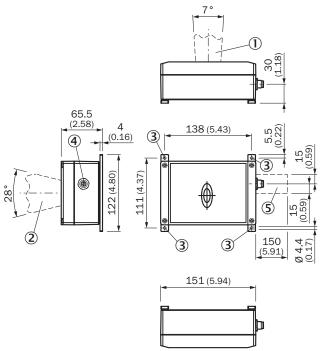
Ambient data

Electromagnetic compatibility (EMC)	ETSI EN 301 489-1 / ETSI EN 301 489-3
Vibration resistance	DIN/EN 60068-2-6, DIN/EN 60068-2-64 EN 60068-2-64
Shock resistance	DIN/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

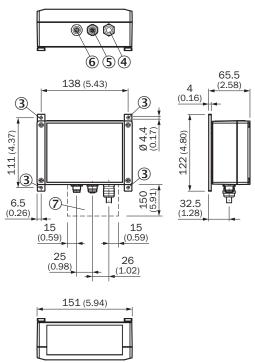
Dimensional drawing RAS407-280xxxx



Dimensions in mm (inch)

- ① angle horizontal
- 2 angle vertical
- 3 Mounting holes, 4 x Ø 4.4 mm
- ④ connection for controller unit
- ⑤ Recommended free space for connections

Dimensional drawing RAS4xx-xx001xx



Dimensions in mm (inch)

- 3 Mounting holes, 4 x Ø 4.4 mm
- 4 power supply
- ⑤ USB port
- ® sensor unit connection
- ⑦ 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				
	 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:

Contacts and other locations -www.sick.com

