

TIM310-1130000 TiM3xx

2D LASER SCANNERS



TIM310-1130000 | TiM3xx

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Ordering information

Туре	Part no.
TIM310-1130000	1056550

Other models and accessories → www.sick.com/TiM3xx



Detailed technical data

Features

Field of application	Indoor
Light source	Infrared (850 nm)
Laser class	1, eye-safe (EN 60825-1 (2007-10))
Aperture angle	270°
Scanning frequency	15 Hz
Angular resolution	1°
Operating range	0.05 m 4 m
Max. range with 10 % reflectivity	2 m

Performance

Response time	Typ. 134 ms
Detectable object shape	Almost any
Systematic error	± 40 mm ¹⁾
Statistical error	± 30 mm ¹⁾
Integrated application	Field evaluation
Number of field sets	16 field triples (48 fields, 1 triple (3 fields) programmable directly at the scanner)
Simultaneous evaluation cases	1 (3 fields)

 $^{\mbox{1})}$ Typical value; actual value depends on environmental conditions.

Interfaces

USB	✓, micro USB
Function	AUX, parameterization
Switching inputs	4 (PNP)
Switching outputs	3 (PNP, Additional 1 x "Device Ready")
Delay time	134 ms 30,000 ms (programmable)
Dwell time	67 ms 10,000 ms (programmable)
Optical indicators	2 LEDs (ON, switching status)

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Mechanics/electronics

Electrical connection	1 x M12 12-pin male connector (0.8 m)
Operating voltage	9 V DC 28 V DC
Power consumption	3 W
Housing color	Light blue (RAL 5012)
Enclosure rating	IP 65 (EN 60529/A1:2000-02)
Protection class	III (EN 60950-1/A11 (2009-03))
Weight	150 g, without connecting cables
Dimensions (L x W x H)	60 mm x 60 mm x 79 mm

Ambient data

Electromagnetic compatibility (EMC) EN 61000-6-3 (2007-01) / EN 61000-6-2 (2005-08) Vibration resistance EN 60068-2-6 (2008-02) Shock resistance EN 60068-2-27 (2009-05) Ambient operating temperature -10 ° C +50 ° C Storage temperature -30 ° C +70 ° C Ambient light immunity 15,000 lx	Object remission	4 % > 1,000 % (reflectors)
Shock resistanceEN 60068-2-27 (2009-05)Ambient operating temperature-10 °C +50 °CStorage temperature-30 °C +70 °C	Electromagnetic compatibility (EMC)	EN 61000-6-3 (2007-01) / EN 61000-6-2 (2005-08)
Ambient operating temperature-10 °C +50 °CStorage temperature-30 °C +70 °C	Vibration resistance	EN 60068-2-6 (2008-02)
Storage temperature -30 °C +70 °C	Shock resistance	EN 60068-2-27 (2009-05)
	Ambient operating temperature	-10 °C +50 °C
Ambient light immunity 15,000 lx	Storage temperature	-30 °C +70 °C
	Ambient light immunity	15,000 lx

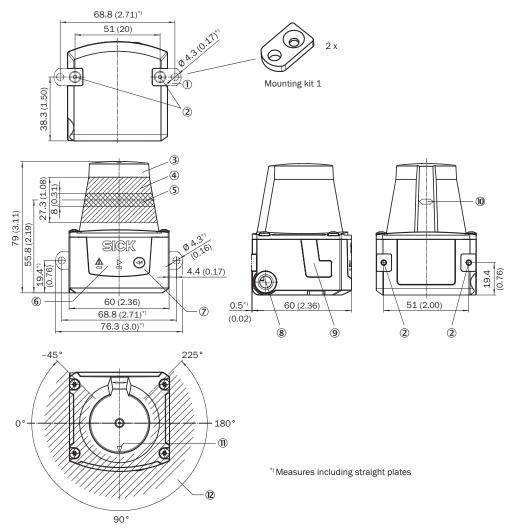
General notes

Note on use

Not suitable for personnel protection

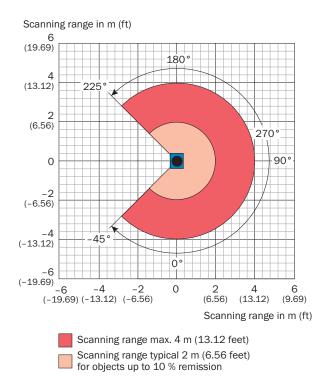
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Dimensional drawing (Dimensions in mm (inch))



- ① 2 x straight plates with M3 x 4 mm screw (included in delivery)
- ② M3 threaded mounting hole, 2.8 mm deep (blind hole thread)
- ③ Optical hood
- ④ Receiving range (light inlet)
- ⑤ Transmission range (light emission)
- 6 Red and green LED (status displays)
- ⑦ Function button for teach-in
- ③ Connecting cable exit ("power/switching inputs/outputs" connection)
- Micro USB female connector, type B
- Marking for the position of the light emission level
- 1 Bearing marking to support alignment (90° axis)
- ② Aperture angle 270° (scanning angle)

Operating range diagram



Recommended accessories

Other models and accessories -> www.sick.com/TiM3xx

	Brief description	Туре	Part no.	
Mounting brac	Mounting brackets and mounting plates			
	1 piece, mounting set 2, fender and alignment aid	Mounting kit 2	2061776	
Plug connecto	rs and cables			
	Head A: female connector, M12, 12-pin, straight, A-coded Head B: cable Cable: shielded, 5 m	Connecting ca- ble (female con- nector - open)	6054974	
		Connecting ca- ble (female con- nector - open)	6042735	
	Head A: male connector, USB-A Head B: male connector, Micro-B Cable: USB 2.0, unshielded, 2 m	USB cable	6036106	
Cleaning agent				
	Plastic cleaner and care product, anti-static, 0.5 liter	Plastic cleaner	5600006	

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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.

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For us, that is "Sensor Intelligence."

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