



Laser scanners TiM3xx / TiM31x / Indoor / Short Range

TiM310-1030000



Model Name > [TIM310-1030000](#)
Part No. > [1052627](#)



At a glance

- Configure without a PC using "touch and teach"
- Small, lightweight and economical measurement sensor
- Field evaluation using intelligent algorithms
- Set parameter interface is accessible while device is mounted
- One of the smallest laser scanners on the market
- Proven industrial design
- Low power consumption (typ. 3 W)

Your benefits

- Low cost of ownership
- Easily hidden from view due to small dimensions
- Low installation costs and exchange time due to M12 x 12 or D-Sub connector
- Long operation for battery-driven vehicles
- Preconfigured fields ensure short installation time
- Reduced hardware costs since one sensor can be used for large anti-collision fields
- No wiring necessary between sender and receiver



Features

Field of application:	Indoor
Version:	Short Range
Light source:	Infrared (850 nm)
Laser class:	1 (EN 60825-1 (2007-10)), eye-safe
Field of view:	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 ¹⁾ :	± 40 mm
Statistical error ²⁾ :	± 30 mm
Integrated application:	Field evaluation

Number of field sets:	16 field triples (48 fields, 1 triple (3 fields) programmable directly at the scanner)
Simultaneous processing cases:	1 (3 fields)

1) 2) Typical value; actual value depends on environmental conditions.

Interfaces

Serial (RS-232):	-
Ethernet:	-
CAN bus:	-
PROFIBUS DP:	-
PROFINET:	-
DeviceNet:	-
USB:	✓
Function (USB):	AUX
Remark (USB):	Micro USB
Switching inputs:	4
Switching outputs:	3 (plus 1 x "device ready")
Optical indicators:	2 LEDs (ON, switching status)
Delay time:	134 ms ... 30,000 ms (programmable)
Dwell time:	67 ms ... 10,000 ms (programmable)

Mechanics/electronics

Electrical connection:	1 15-pin D-sub HD plug (0.9 m)
Operating voltage:	10 V DC ... 28 V DC
Power consumption:	Typ. 3 W, without output load
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:	60 mm x 60 mm x 79 mm

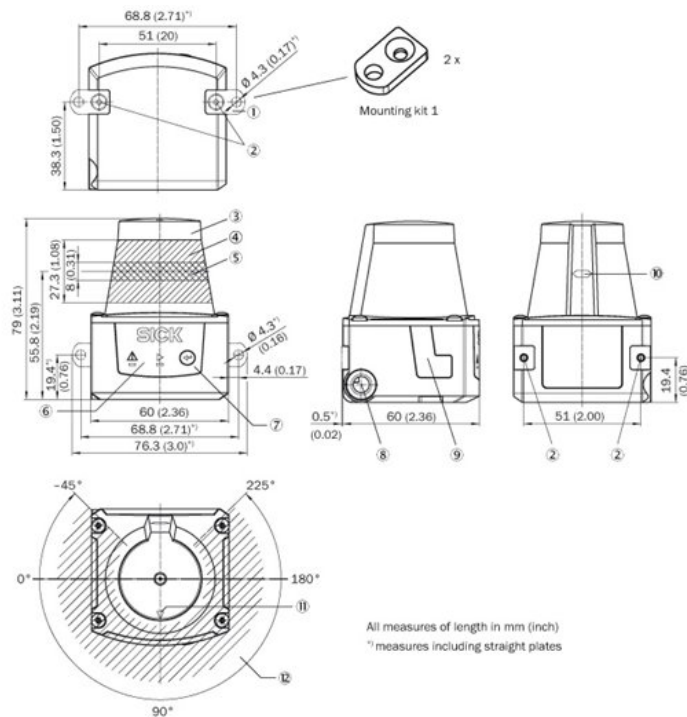
Ambient data

Object remission:	4 % ... > 1,000 % (reflectors)
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 safety:	15,000 lx

General notes

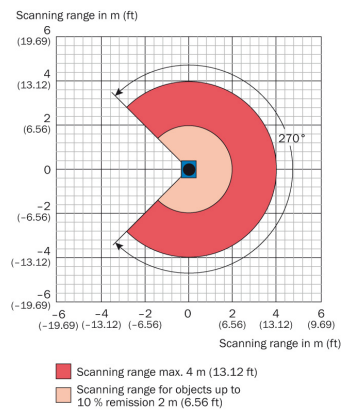
Note on use:	Not suitable for personnel protection
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Dimensional drawing



- |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
- |8| Exit of the 0.9 m (2.95 ft) connecting cable with 15-pin D-Sub H D plug ("Power/switching inputs/outputs" connection)
- |9| Micro USB socket, behind black rubber plate ("Aux interface" connection for configuration with PC)
- |10| Mark for the position of the light emission level
- |11| Direction finding mark to aid alignment (90° axis)
- |12| Aperture angle 270° (scanning angle)

Operating range diagram



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com