



Laser scanners
TiM3xx / TiM35x

TiM351-2134001



Type > [TIM351-2134001](#)
Part No. > [1067299](#)



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 only one sensor can be used for large anti-collision fields (up to 235 qm)
- No wiring necessary between sender and receiver



Features

Light source:	Infrared (850 nm)
Laser class:	1 (EN 60825-1 (2007-10)), eye-safe
Aperture angle:	270 °
Scanning frequency:	15 Hz
Angular resolution:	1 °
Operating range:	0.05 m ... 10 m
Max. range with 10 % reflectivity:	8 m

Performance

Response time:	Typ. 67 ms
Detectable object shape:	Almost any
Systematic error:	± 60 mm
Statistical error:	± 20 mm
Integrated application:	Field evaluation with flexible fields

Interfaces

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

Mechanics/electronics

Electrical connection:	1 x "Ethernet" connection, 4-pin M12 female connector, 1 x connection "Power", 12-pin, M12 male connector, 1 x Micro USB female connector, type B
Operating voltage:	9 V DC ... 28 V DC
Power consumption:	3 W
Housing color:	Gray (RAL 7032)
Enclosure rating:	IP 67 (EN 60529/A1:2000-02)
Protection class:	III (EN 60950-1/A11 (2009-03))
Weight:	250 g, without connecting cables
Dimensions (L x W x H):	60 mm x 60 mm x 86 mm

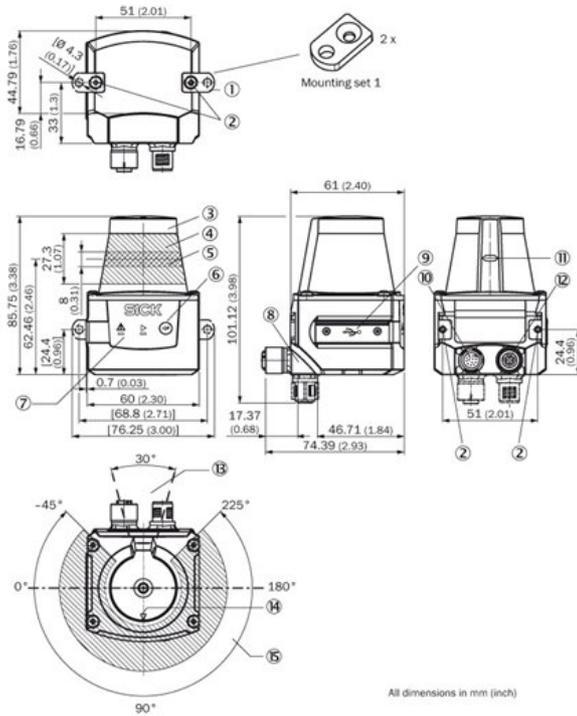
Ambient data

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:	-25 °C ... +50 °C
Storage temperature:	-40 °C ... +75 °C
Ambient light immunity:	80,000 lx

General notes

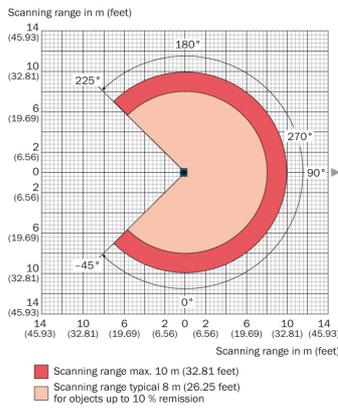
Note on use:	Not suitable for personnel protection
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Dimensional drawing



- [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] Function button for teach-in
- [7] Red and green LED (status displays)
- [8] Swivel connector unit
- [9] Micro USB female connector, type B
- [10] connection "Power", 12-pin, M12 male connector
- [11] Marking for the position of the light emission level
- [12] "Ethernet" connection, 4-pin M12 female connector
- [13] area in which no reflective surfaces are allowed for mounted devices
- [14] Bearing marking to support alignment (90° axis)
- [15] Aperture angle 270° (scanning angle)

Operating range diagram



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