

SICK TIM150-3010300

SICK TIM150-3010300 LiDAR 2D Sensor, 10m, 200 Degree Angle, 1 Degree Resolution, TiM 2D Series

SICK TiM150-3010300 | TiM
2D LIDAR SENSORS

Features

Application Indoor

Measurement principle HDDM+

Light source Infrared (850 nm)

Laser class 1 (IEC 60825-1:2014, EN 60825-1:2014+A11:2021)

Aperture angle

Horizontal 200°

Scanning frequency 14.5 Hz

Angular resolution

Horizontal 1°

Working range 0.05 m ... 10 m

Scanning range

At 10% remission factor 2.8 m ... 3 m, depending on the angle

Mechanics/electronics

Connection type 1 x 5-pin M12 male device connector (rotatable)

Supply voltage 10 V DC ... 28 V DC

Power consumption Typ. 2.7 W

Output current $\leq$ 100 mA

Housing color Light blue (RAL 5012)

Enclosure rating IP65 (IEC 60529:1989+AMD1:1999+AMD2:2013)

Protection class III (IEC 61140:2016-1)

Weight 122 g, without connecting cables

Dimensions (L x W x H) 60 mm x 60 mm x 75.8 mm

MTBF 82 years

Safety-related parameters

MTTFD > 100 years

Performance

Response time Typ. 70 ms

Detectable object shape Almost any

Systematic error $\pm$ 40 mm

Statistical error 30 mm

Integrated application Field evaluation

You can contact us through the following contact information

www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com

Number of field sets 1 field set

Simultaneous evaluation cases 1 (2 fields)

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

Interfaces

IO-Link ✓

Function Service interface, parameterization

Digital inputs/outputs

Inputs 1

Outputs 2 (Push-pull)

Delay time 69 ms ... 30,015 ms (configurable)

Dwell time 69 ms ... 30,015 ms (configurable)

Optical indicators 2 LEDs (ON, switching status)

Ambient data

Object remission 4 % ... 1,000 % (reflectors)

Electromagnetic compatibility (EMC) IEC 61000-6-3:2006+AMD1:2010 / IEC 61000-6-2:2005

Vibration resistance

Sine resonance scan 10 Hz ... 1,000 Hz

Sine test 10 Hz ... 150 Hz, 1 g, 1 frequency cycles

Noise test 10 Hz ... 200 Hz, 5 g RMS, 2 h 2)

Ambient operating temperature -10 °C ... +50 °C

Storage temperature -30 °C ... +70 °C

Permissible relative humidity $\leq$ 95 %, Non-condensing

Ambient light immunity 30,000 lx

Note on use The sensor does not constitute a safety component as defined by relevant legislation on machine safety.

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