# SICK LMS151-10100

SICK Sensors LMS151-10100

Detailed technical data
Features
Application Outdoor, Indoor
Light source Infrared (905 nm)
Laser class 1 (IEC 60825-1:2014, EN 60825-1:2014+A11:2021)
Aperture angle
Horizontal 270°
Scanning frequency 25 Hz
50 Hz
Angular resolution
Horizontal 0.25°
0.5°
Heating Yes
Working range 0.5 m ... 50 m
Scanning range
At 10% remission factor 18 m
At 90% remission factor 50 m
Amount of evaluated echoes 2
Fog correction Yes
Mechanics/electronics
Connection type 1 x M12 round connector
Supply voltage 10.8 V DC ... 30 V DC
Power consumption Typ. 8 W, heating typ. 35 W
Housing color Gray (RAL 7032)
Enclosure rating IP67 (EN 60529, Section 14.2.7)
Protection class III (EN 61010-1:2010-10)
Weight 1.1 kg
Dimensions (L x W x H) 105 mm x 102 mm x 162 mm

MTBF > 100 years
Safety-related parameters
MTTFD > 100 years
Performance
Response time ⩾ 20 ms
Detectable object shape Almost any

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Systematic error ± 30 mm 1)
Statistical error 12 mm 1)
Integrated application Field evaluation
Number of field sets 10 fields
Simultaneous evaluation cases 10
1) Typical value; actual value depends on environmental conditions.
Interfaces
Ethernet ✔ , TCP/IP
Function Data interface (read result output)
Data transmission rate 10/100 MBit/s
Serial ✔ , RS-232
Function Data interface (read result output), Service interface
Data transmission rate 9.6 kBaud ... 115.2 kBaud
CAN ✔
Function Extension of outputs
Digital inputs/outputs
Inputs 4 digital (thereof 2 suitable for encoders)
Outputs 3
Optical indicators 7-segment display (plus 5 LEDs showing device status, contamination warning and initial condition)
Ambient data
Object remission 3 % ... > 1,000 % (reflectors)
Electromagnetic compatibility (EMC) EN 61000-6-2:2005 / EN 61000-6-3:2007+A1:2011
Vibration resistance EN 60068-2-6 (1995-04)
Shock resistance EN 60068-2-27 (1993-03)
Ambient operating temperature –30 °C ... +50 °C
Storage temperature –30 °C ... +70 °C
Ambient light immunity 80,000 lx
General notes
Note on use The sensor does not constitute a safety component as defined by relevant legislation on machine safety.

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