



TPS-30100

MINESIC

OBJECT DETECTION SYSTEMS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
TPS-30100	1053097

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



Detailed technical data

Features

Industries	Mobile automation
Number of sensors	3
Areas of application	Mining
Vehicles	Haul trucks
Laser class	1 (IEC 60825-1:2014)
Application	Driver assistance system for large mining haul trucks to avoid collisions with other vehicles and mining infrastructure

Mechanics/electronics

Dimensions display (W x D x H)	142 mm x 44 mm x 98 mm (with mounting 130 mm depth)
Weight	1 kg, without mounting kit (LD-MRS) 1.1 kg, without mounting kit (LMS151) 360 g, 600 g with mounting (Display) 8 kg, (control cabinet)
Supply voltage	24 V DC (19.2 V DC ... 27 V DC)
Power consumption	40 W 150 W, With heating
Machine operating voltage	19.2 V DC ... 27 V DC, 24 V DC

Performance

Display	4.3" touch display
Functions	Audible and visual collision warning Front-end collision warning Reverse assist
Number of laserscanners	3
Monitored area	Vehicle front end Vehicle rear end Road profile
Warning zones	3 2 (RDW)
GPS	✓
Self-diagnostics	✓
WebInterface	Software updates
Integrated application	Driver assistance system for large mining haul trucks to avoid collisions with other vehicles and mining infrastructure

Interfaces

Ethernet	✓
Function	Software updates Event Log
Digital I/O	✓
Operator interface	Touch display

Ambient data

Ambient operating temperature	-20 °C ... +50 °C
Ambient temperature, storage	-30 °C ... +80 °C

General notes

Items supplied	3D LiDAR sensor LD-MRS HD Front 3D LiDAR sensor LD-MRS HD Rear 2D LiDAR sensor LMS151 RDW Operator display Mounting set for operator display Mounting kit with shock mount for LD-MRS HD (2 x) Mounting kit with shock mount for LMS1xx Control cabinet Buzzer GPS receiver USB stick with operating instructions Ethernet connection cable for LD-MRS HD (2 x) Ethernet connection cable for LMS1xx Ethernet connection cable for display Power supply cable for LD-MRS (2 x) Power cable for LMS1xx Connecting cables for operator display
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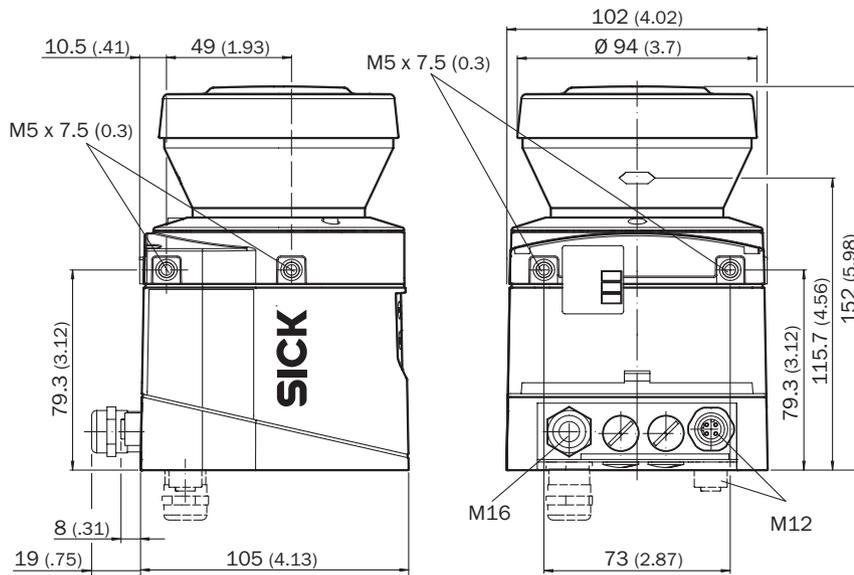
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓

Classifications

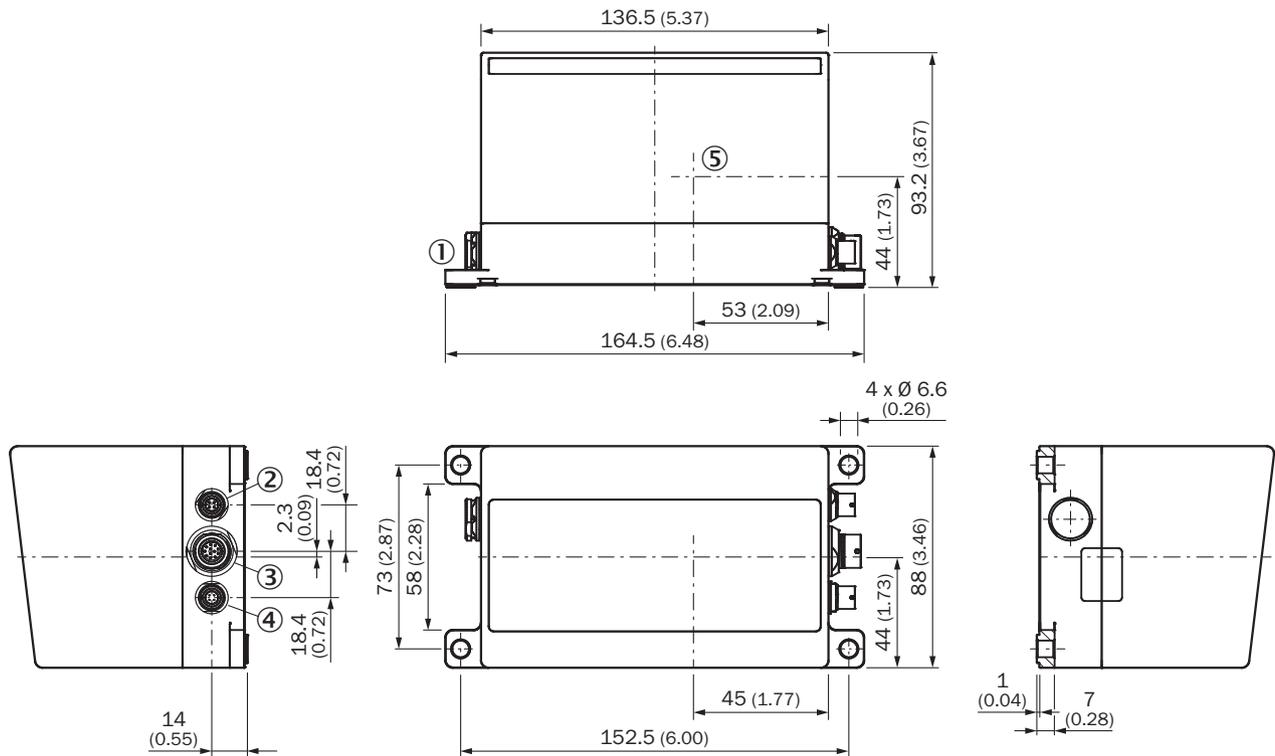
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ECLASS 6.2	27339090
ECLASS 7.0	27339090
ECLASS 8.0	27339090
ECLASS 8.1	27339090
ECLASS 9.0	27330190
ECLASS 10.0	27330190
ECLASS 11.0	27330190
UNSPSC 16.0901	25172105

Dimensional drawing 2D LiDAR sensor LMS15x



Dimensions in mm (inch)

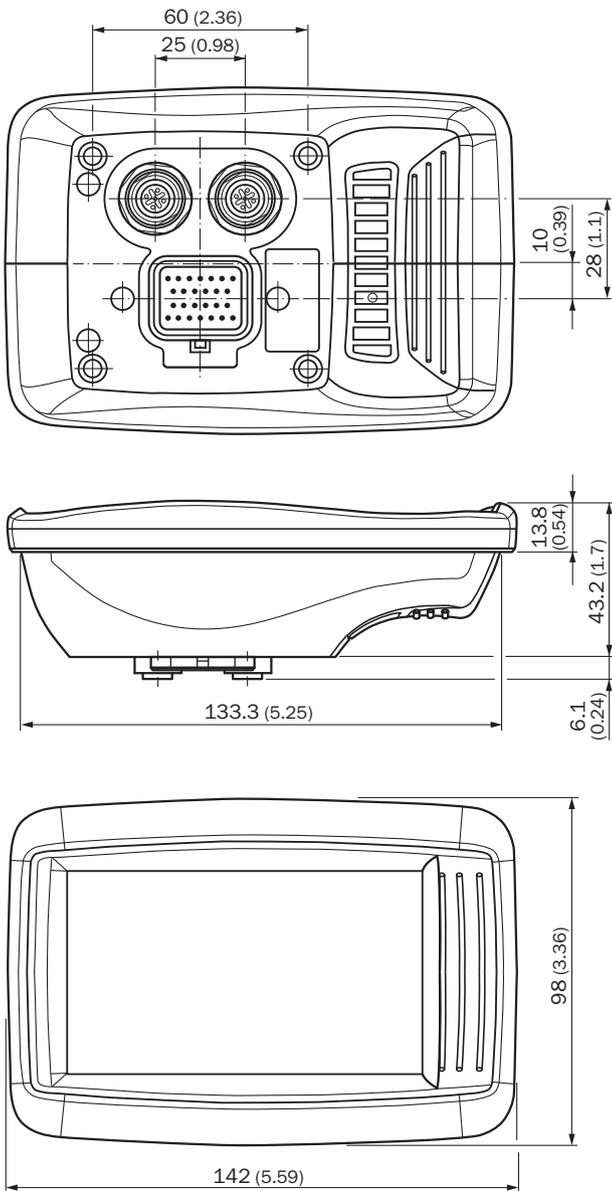
Dimensional drawing 3D LiDAR sensor LD-MRS



Dimensions in mm (inch)

- ① venting element
- ② "Ethernet" connection, 4-pin female connector
- ③ connection data interface / synchronisation, 12-pin female connector
- ④ connection "Power", 4-pin female connector

Dimensional drawing Operator display



Dimensions in mm (inch)

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com