



Illustration may differ



Ordering information

Type	part no.
LMC132-11101 VdS	1051488

Other models and accessories → www.sick.com/LMC1xx

Detailed technical data

Features

Application	Security, 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	50 Hz
Angular resolution	Horizontal 0.25° 0.5°
Heating	Yes
Working range	0.5 m ... 20 m
Scanning range	At 10% remission factor 18 m
Amount of evaluated echoes	2

Mechanics/electronics

Connection type	1 x M12 round connector
Supply voltage	9 V DC ... 30 V DC
Power consumption	Typ. 8 W, 20 W, heating typ. 35 W
Housing color	Black (RAL 9005)
Enclosure rating	IP67 (EN 60529, Section 14.2.5)
Protection class	III (EN 50178 (1997;10))
Weight	1.1 kg, without connecting cables
Dimensions (L x W x H)	105 mm x 102 mm x 152 mm
MTBF	> 100 years
MTTFd	> 100 years

Safety-related parameters

MTTF_D	> 100 years
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Performance

Response time	≥ 20 ms
Detectable object shape	Almost any
Systematic error	± 30 mm ¹⁾
Statistical error	12 mm ¹⁾
Integrated application	Field evaluation Security conform parameterization
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
	Outputs	3 (2 relay, 1 digital)
Optical indicators		1 7-segment display (plus 5 LEDs showing device status, contamination warning and initial condition, both can be activated)

Ambient data

Remission factor	2 % ... > 1,000 % (reflectors)
Electromagnetic compatibility (EMC)	EN 61000-6-2:2005 / EN 61000-6-4 (2007-01)
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	40,000 lx

General notes

Items supplied	LM513x VdS (Outdoor), Mounting protection bracket VdS 2 (short)
Note on use	The sensor does not constitute a safety component as defined by relevant legislation on machine safety.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓

Information according to Art. 3 of Data Act (Regulation EU 2023/2854)

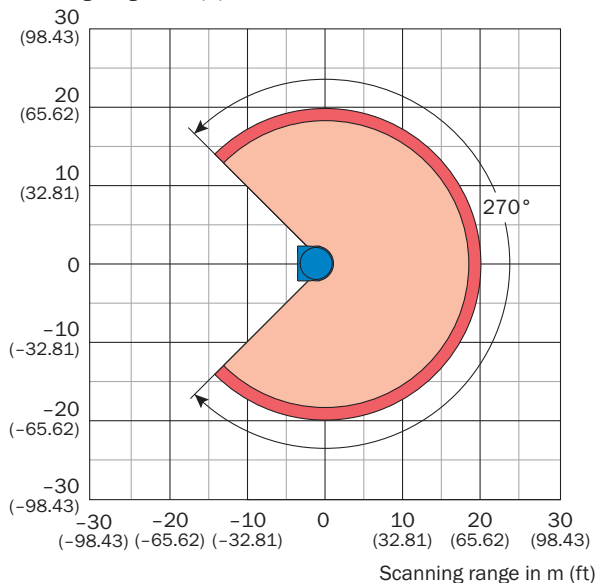
✓

Classifications

ECLASS 5.0	27270990
ECLASS 5.1.4	27270990
ECLASS 6.0	27270913
ECLASS 6.2	27270913
ECLASS 7.0	27270913
ECLASS 8.0	27270913
ECLASS 8.1	27270913
ECLASS 9.0	27270913
ECLASS 10.0	27270913
ECLASS 11.0	27270913
ECLASS 12.0	27270913
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	41111615

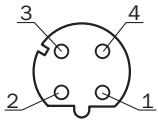
Working range diagram

Scanning range in m (ft)



- Scanning range max. 20 m (65.62 ft)
- Scanning range for objects up to 10 % remission 18 m (59.06 ft)

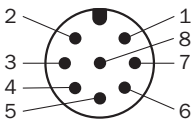
Connection type Ethernet



M12 female connector, 4-pin, D-coded

- ① TX+
- ② RX+
- ③ TX-
- ④ RX-

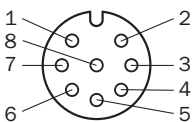
PIN assignment “data” connection



M12 male connector, 8-pin, A-coded

- ① RxD (HOST)
- ② TxD (HOST)
- ③ CAN_HI
- ④ CAN_LO
- ⑤ GND RS/CAN
- ⑥ In₁
- ⑦ In₂
- ⑧ GND IN1/2

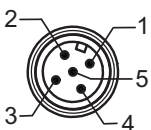
PIN assignment I/O connection



female connector M12, 8-pin, A-coded

- ① LMS11x: INC1 A / LMS15x/LMS16x: INC1 A or IN4 (switchable, pins 1 and 2 must be switched together)
- ② LMS11x: INC1 B / LMS15x/LMS16x: INC1 B or IN3 (switchable, pins 1 and 2 must be switched together)
- ③ GND INC1
- ④ OUT1 A
- ⑤ OUT2 A
- ⑥ OUT3 A
- ⑦ OUT1 ... 3 B
- ⑧ OUT1 ... 3 R

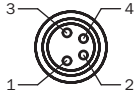
PIN assignment Power



Connector M12, 5-pin, A-coded

- ① V_s
- ② V_s heat.
- ③ GND
- ④ Reserved
- ⑤ GND heat.

PIN assignment Service interface



female connector M8, 4-pin

- ① Reserved
- ② RxD AUX
- ③ GND RS
- ④ TxD AUX

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