

OLM200-1009 OLM200

LINEAR MEASUREMENT SENSORS





Ordering information

Туре	Part no.
OLM200-1009	1058126

Other models and accessories → www.sick.com/OLM200



Detailed technical data

Mechanics/electronics

Supply voltage V _s	DC 18 V 30 V ¹⁾
Ripple	\leq 5 V_{pp}^{2}
Power consumption	< 5.5 W
Initialization time	10 s
Enclosure rating	IP65 (EN 60 529)
Protection class	III

 $^{^{1)}}$ Limit values, reverse-polarity protected.

Performance

Measuring range	0 m 10,000 m ¹⁾
Resolution	0.1 mm, 1 mm, 10 mm, 100 mm
Repeatability	0.15 mm ²⁾
Response time	10 ms ³⁾
Output time	2.5 ms
Light source	LED, red
Accuracy of speed output	± 5 mm/s
Max. movement speed	7 m/s
Reading distance	100 mm, ± 20 mm
Barcode width	30 mm

 $^{^{1)}}$ Dependent on the set resolution and transfer protocol.

²⁾ May not exceed or fall below U_V tolerances.

²⁾ Statistical error 3 s, no warm-up time required.

 $^{^{}m 3)}$ Response time of digital output.

Interfaces

PROFINET	√
Digital input	Multifunctional input MF2
Digital output	
Number	1 ¹⁾
Туре	PNP / NPN
Function	Position, speed, control mark Q00 (off), Q01 (on), illumination on/off, service [failure (dirt/LED service life), no barcode tape, over/under temperature, out of measuring range 0 km $>$ position $>$ 10 km, internal error]
Maximum output current I _A	\leq 100 mA $^{2)}$

¹⁾ Via multifunctional output MF1.

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 EN 61000-6-4
Ambient temperature, operation	-30 °C +60 °C ¹⁾
Ambient temperature, storage	-40 °C +75 °C ²⁾
Typ. Ambient light immunity	\leq 5,000 lx $^{3)}$
Vibration resistance	DIN/EN 60068-2-6, DIN/EN 60068-2-64
Shock resistance	DIN/EN 60068-2-27

 $^{^{1)}}$ Temperatures < -20 °C with 5 min warm up time.

Classifications

eCl@ss 5.0	27270890
eCl@ss 5.1.4	27270890
eCl@ss 6.0	27270890
eCl@ss 6.2	27270890
eCl@ss 7.0	27270890
eCl@ss 8.0	27270890
eCl@ss 8.1	27270890
eCl@ss 9.0	27270890
eCl@ss 10.0	27270890
eCl@ss 11.0	27270890
eCl@ss 12.0	27280106
ETIM 5.0	EC001825
ETIM 6.0	EC001825
ETIM 7.0	EC001825
ETIM 8.0	EC001825
UNSPSC 16.0901	39121528

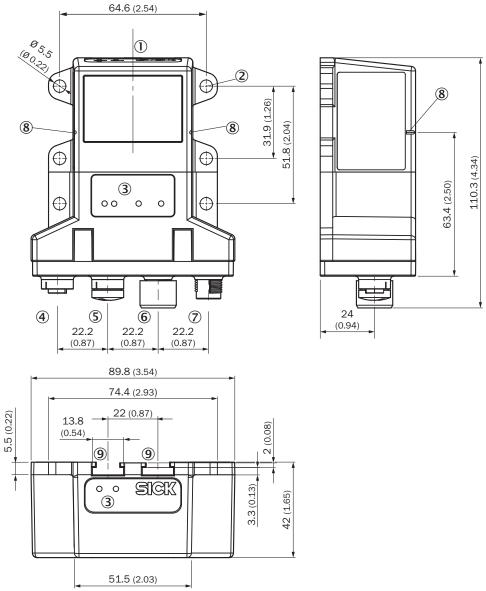
²⁾ Outputs MF1 short-circuit protected.

²⁾ Max. 95 % humidity, non-condensing.

³⁾ Typ. value at +25 °C ambient temperature.

Dimensional drawing (Dimensions in mm (inch))

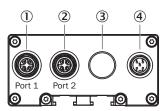
Dimensional drawing



- ① Reference axis position measurement
- ② Mounting holes
- 3 Status LED [status]
- ④ Ethernet port 1, M12 female connector, 4-pin
- ⑤ EtherNet port 2, socket M12, 4-pin
- 6 Not assigned
- 7 Connector M12, 5-pin
- Adjustment aid (slot)
- 9 T-slot

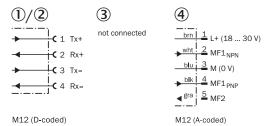
Connection type

Connection type



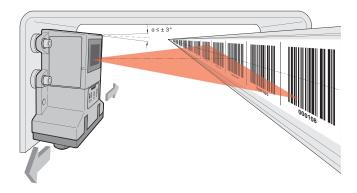
- ① Ethernet port 1, M12 female connector, 4-pin
- ② EtherNet port 2, socket M12, 4-pin
- 3 Not assigned
- 4 Connector M12, 5-pin

Connection diagram



- ① Ethernet, M12 female connector, 4-pin
- ② Ethernet, M12 female connector, 4-pin
- 3 Not assigned
- ④ Connector M12, 5-pin

Application



Recommended accessories

Other models and accessories → www.sick.com/OLM200

	Brief description	Туре	Part no.
Codes			
	30 mm, height: 60 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5327812
Q _{mm}	30 mm, height: 100 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5327576
	30 mm, height: 25 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5328960
	30 mm, height: 40 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5323951
	30 mm, height: 30 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5322556
Other mountir	ng accessories		
•	4 pieces, Sliding nut set, M5, 4x, Included in delivery	Sliding nuts	2017550
Plug connecto	ors and cables		
The state of the s	Head A: male connector, M12, 4-pin, straight, D-coded Head B: Flying leads Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 2 m	YM2D24- 020PN1XLEAX	2106171
	Head A: male connector, M12, 4-pin, angled, D-coded Head B: Flying leads Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 5 m	YN2D24- 050PN1XLEAX	2106175
6 6	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, M12, 4-pin, straight, D-coded Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 2 m	YM2D24- 020PN1M2D24	2106159
68	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 4-pin, straight Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 2 m	YM2D24- 020PN1MRJA4	2106182
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, M12, 4-pin, angled, D-coded Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 5 m	YM2D24- 050PN1N2D24	2106166
38	Head A: male connector, M12, 4-pin, angled, D-coded Head B: male connector, RJ45, 4-pin, straight Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 5 m	YN2D24- 050PN1MRJA4	2106163
	Head A: female connector, M12, 4-pin, straight, D-coded Cable: Ethernet, shielded	DOS-1204-GE	6048153
	Head A: male connector, RJ45, 4-pin, straight Cable: Ethernet, PROFINET, EtherCAT [®] , shielded	STE-0J04-GZ	6048260
Co	Head A: male connector, M12, 4-pin, straight, D-coded Cable: Ethernet, shielded	STE-1204-GE01	6048151
	Head A: male connector, M12, 4-pin, angled, D-coded Cable: Ethernet, shielded	STE-1204-WE	6048152

Recommended services

Additional services → www.sick.com/OLM200

	Туре	Part no.
Warranty extensions		
 Product area: Identification solutions, machine vision, Distance sensors, Detection and ranging solutions Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671

SICK AT A GLANCE

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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."

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