

OLM200-1008 OLM

OPTICAL LINEAR MEASUREMENT SENSORS





Ordering information

Туре	part no.
OLM200-1008	1058813

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

Illustration may differ



Detailed technical data

Features

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.

Interfaces

EtherNet/IP™	✓
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]

 $^{^{1)}}$ Via multifunctional output MF1.

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

³⁾ Response time of digital output.

 $^{^{2)}}$ Outputs MF1 short-circuit protected.

Maximum output current $I_A \leq 100$ mA $^{2)}$

Electronics

Supply voltage V_s	DC 18 V 30 V ¹⁾
Ripple	≤ 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.

Ambient data

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

 $^{^{1)}}$ This is a Class A device. This device can cause radio interference in living quarters.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	1
China-RoHS	1
cULus certificate	1
Ethernet/IP certificate	✓

¹⁾ Via multifunctional output MF1.

²⁾ Outputs MF1 short-circuit protected.

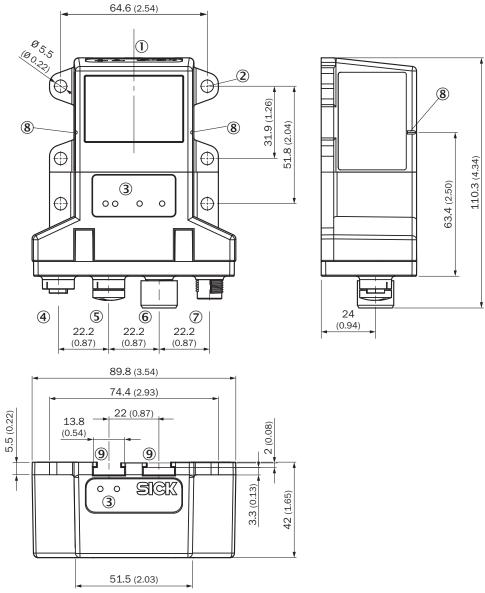
 $^{^{\}rm 2)}$ May not fall below or exceed U $_{\rm V}$ tolerances.

 $^{^{2)}}$ Temperatures < –20 $^{\circ}\text{C}$ with 5 min warm up time.

 $^{^{\}rm 3)}$ Max. 95 % humidity, non-condensing.

 $^{^{4)}}$ Typ. value at +25 $^{\circ}\text{C}$ ambient temperature.

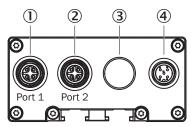
Dimensional drawing



Dimensions in mm (inch)

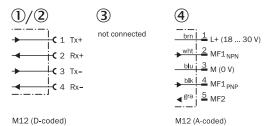
- 1 Reference axis position measurement
- ② Mounting holes
- ③ status LED [status]
- ④ Ethernet port 1, M12 female connector, 4-pin
- ⑤ EtherNet port 2, socket M12, 4-pin
- 6 Not assigned
- 7 Connector M12, 5-pin
- Adjustment aid (slot)
- 9 T-slot

Connection type



- 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

Ethernet connection diagram



M12 (D-coded)

- ① Ethernet port 1, M12 female connector, 4-pin
- ② Ethernet port 1, M12 female connector, 4-pin

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Recommended accessories

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

	Brief description	Туре	part no.
Mounting systems			
	 Description: Sliding nut set, M5, 4x Packing unit: 4 pieces Items supplied: Included in delivery 	Sliding nuts	2017550

	Brief description	Туре	part no.		
connectors ar	connectors and cables				
	 Connection type head A: Female connector, M12, 4-pin, straight, D-coded Signal type: Ethernet Cable: CAT5, CAT5e Description: Ethernet, shielded, Head A: female connector, M12, 4-pin, straight, D-coded, shielded, for cable diameter 4 mm 8 mm Head B: - Connection systems: IDC quick connection Permitted cross-section: 0.14 mm² 0.34 mm² 	DOS-1204-GE	6048153		
	Connection type head A: Female connector, M12, 4-pin, straight Connection type head B: Male connector, M12, 4-pin, straight Signal type: Ethernet Cable: 4-wire Description: Ethernet, unshielded Note: Connection cable, extension cable 1:1, shielded, for TTK70 inspector	EtherNet/IP adapter	2044264		
40	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, M12, 4-pin, straight, D-coded Signal type: Ethernet Cable: 2 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, 2 m cable, M12 male connector straight to M12 male connector straight 	SSL-1204-G02ME90	6045222		
	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet Cable: 2 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, Head A: male connector, M12, 4-pin, straight, D coded Head B: male connector, RJ45, 8-pin, straight Cable: PUR, halogen-free, shielded, 2 x 2 x 0.14 mm², Ø 6.4 mm 	SSL-2J04-G02ME60	6047916		
96	 Connection type head A: Male connector, M12, 4-pin, angled, D-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet Cable: 5 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, Head A: male connector, M12, 4-pin, angled, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: PUR, halogen-free, shielded, 2 x 2 x 0.14 mm², Ø 6.4 mm 	SSL-2J04-H05ME	6045287		
	 Connection type head A: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: CAT5, CAT5e Description: Ethernet, shielded, Head A: male connector, RJ45, 4-pin, straight, shielded, PROFINET, EtherCAT, for cable diameter 4.5 mm 8 mmPROFINET Connection systems: IDC quick connection Permitted cross-section: 4 mm² 8 mm² 	STE-0J04-GZ	6048260		
	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Signal type: Ethernet Cable: CAT5, CAT5e Description: Ethernet, shielded, Head A: male connector, M12, 4-pin, straight, D coded, shielded, for cable diameter 4 mm 8 mm Head B: - Connection systems: IDC quick connection Permitted cross-section: 0.14 mm² 0.34 mm² 	STE-1204-GE01	6048151		
	 Connection type head A: Male connector, M12, 4-pin, angled, D-coded Signal type: Ethernet Cable: CAT5, CAT5e Description: Ethernet, shielded, Head A: male connector, M12, 4-pin, angled, D coded, shielded, for cable diameter 4 mm 8 mm Head B: - Connection systems: IDC quick connection Permitted cross-section: 0.14 mm² 0.34 mm² 	STE-1204-WE	6048152		
70	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Flying leads Signal type: Ethernet Cable: 2 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, M12 male connector D-coded straight to open end 	STL-1204-G02ME90	6045284		
	 Connection type head A: Male connector, M12, 4-pin, angled, D-coded Connection type head B: Flying leads Signal type: Ethernet Cable: 5 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, M12 male connector D-coded angled to open end 	STL-1204-W05ME90	6047913		

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	Brief description	Туре	part no.
Codes			
	Product family: Positioning codes Description: 30 mm, height: 60 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5327812
	Product family: Positioning codes Description: 30 mm, height: 100 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5327576
	Product family: Positioning codes Description: 30 mm, height: 25 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5328960
	 Product family: Positioning codes Description: 30 mm, height: 40 mm, measuring range: customer-specific 	Customer-specific bar code tape	5323951
	 Product family: Positioning codes Description: 30 mm, height: 30 mm, measuring range: customer-specific 	Customer-specif- ic bar code tape	5322556

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."

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