



OLM200-1008

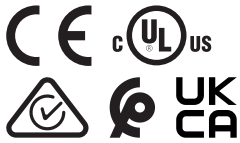
OLM

OPTICAL LINEAR MEASUREMENT SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
OLM200-1008	1058813

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

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.

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

³⁾ Response time of digital output.

Interfaces

EtherNet/IP™	✓
Digital input	Multifunctional input MF2
Digital output	
Number	1 ¹⁾
Type	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⁾ Outputs MF1 short-circuit protected.

Maximum output current I_A	$\leq 100 \text{ mA}$ ²⁾
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¹⁾ Via multifunctional output MF1.

²⁾ Outputs MF1 short-circuit protected.

Electronics

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

¹⁾ Limit values, reverse-polarity protected.

²⁾ May not fall below or exceed U_V tolerances.

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2, EN 61000-6-4 ¹⁾
Ambient temperature, operation	$-30 \text{ }^{\circ}\text{C} \dots +60 \text{ }^{\circ}\text{C}$ ²⁾
Ambient temperature, storage	$-40 \text{ }^{\circ}\text{C} \dots +75 \text{ }^{\circ}\text{C}$ ³⁾
Typ. Ambient light immunity	$\leq 5,000 \text{ lx}$ 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.

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

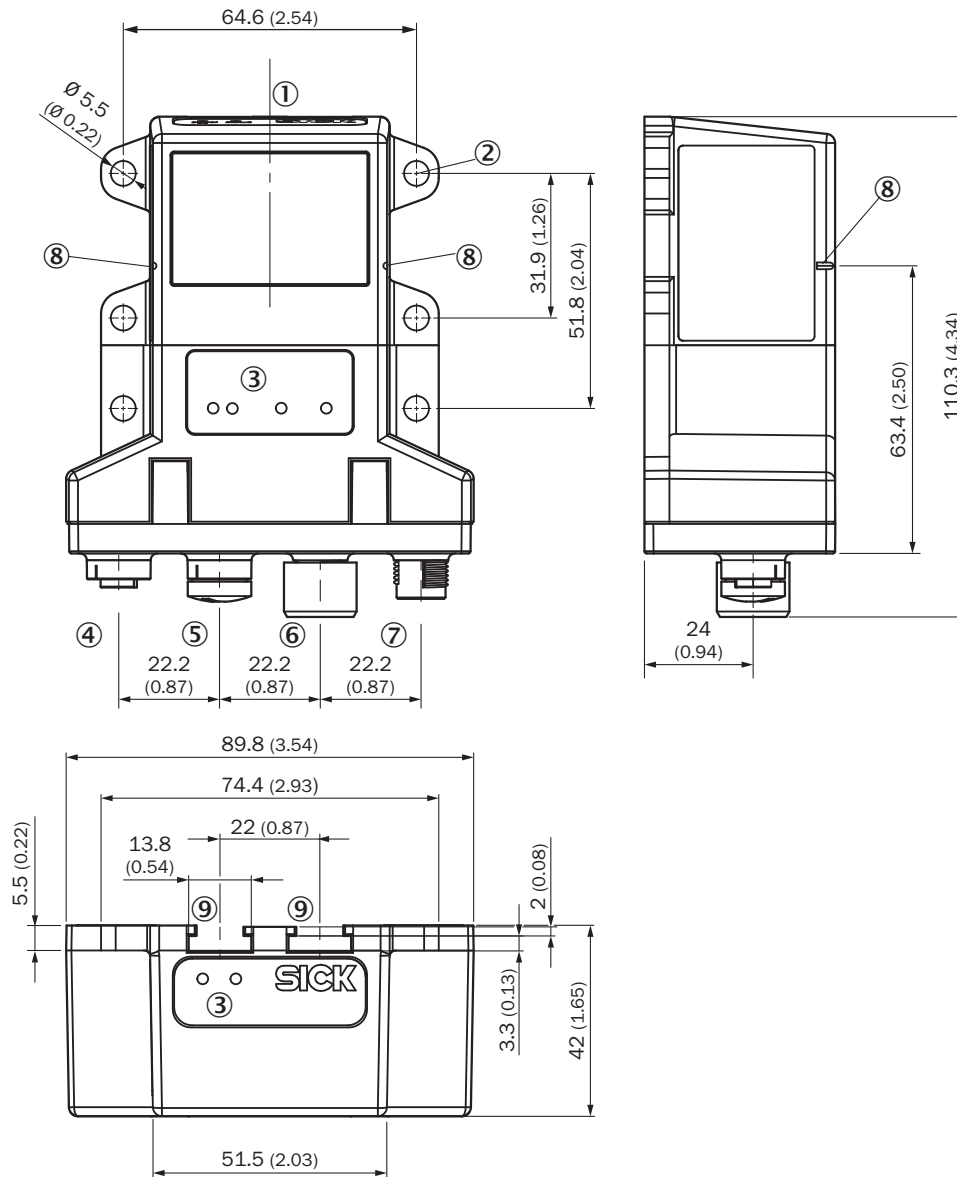
³⁾ Max. 95 % humidity, non-condensing.

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

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
Ethernet/IP certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

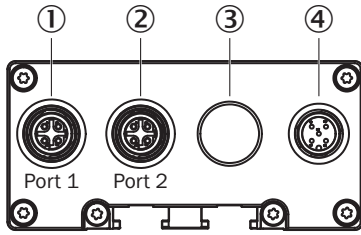
Dimensional drawing



Dimensions in mm (inch)

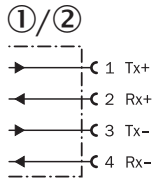
- ① Reference axis position measurement
- ② Mounting holes
- ③ status LED [status]
- ④ Ethernet port 1, M12 female connector, 4-pin
- ⑤ EtherNet port 2, socket M12, 4-pin
- ⑥ Not assigned
- ⑦ Connector M12, 5-pin
- ⑧ Adjustment aid (slot)
- ⑨ T-slot

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

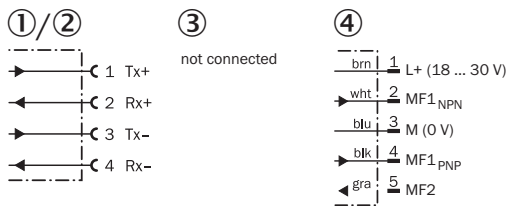
Ethernet connection diagram



M12 (D-coded)

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

Connection diagram



M12 (D-coded)

M12 (A-coded)

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

Recommended accessories

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

	Brief description	Type	part no.
Mounting systems			
	Description: Sliding nut set, M5, 4x Packing unit: 4 pieces Items supplied: Included in delivery	Sliding nuts	2017550
connectors and cables			
	Connection type head A: Female connector, M12, 4-pin, straight, D-coded Signal type: Ethernet Cable: CAT5, CAT5e Description: Ethernet, shielded 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
	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	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	SSL-2J04-G02ME60	6047916
	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	SSL-2J04-H05ME	6045287
	Connection type head A: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: CAT5, CAT5e Description: Ethernet, shieldedPROFINET 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 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 Connection systems: IDC quick connection Permitted cross-section: 0.14 mm² ... 0.34 mm²	STE-1204-WE	6048152
	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	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	STL-1204-W05ME90	6047913

	Brief description	Type	part no.
Codes			
	• Product family: Positioning codes • Description: 30 mm, height: 60 mm, measuring range: customer-specific	Customer-specific bar code tape	5327812
	• Product family: Positioning codes • Description: 30 mm, height: 100 mm, measuring range: customer-specific	Customer-specific bar code tape	5327576
	• Product family: Positioning codes • Description: 30 mm, height: 25 mm, measuring range: customer-specific	Customer-specific 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-specific 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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