

MLSE-0600A2NPO MLS

MAGNETIC LINE GUIDANCE SENSORS





Ordering information

Туре	Part no.
MLSE-0600A2NP0	1090691

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



Detailed technical data

Features

Detection range typ.	600 mm
Operating height	10 mm 70 mm
Electrical wiring	DC 4-wire
Teach-in	✓
Enclosure rating	IP65 ¹⁾ IP67 IP68

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	9 V DC 30 V DC
Terminal resistor	No internal terminator
Protection class	III
Power consumption	600 mW
Resolution, typ.	1 mm
Repeat accuracy, typ.	1 mm
Update rate	100 Hz
Reverse polarity protection	✓
Short-circuit protection	✓
Ambient operating temperature	-20 °C +70 °C
Shock and vibration resistance	30 g, 11 ms/10 Hz 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Housing material	Metal, Aluminum Plastic
Connection type	Cable with M8 male connector, 4-pin, 0.3 m ¹⁾
Cable material	PUR
Conductor cross-section	0.08 mm ²
UL File No.	NRKH.E181493 & NRKH7.E181493

 $^{^{1)}}$ Do not bend below 0 $^{\circ}\text{C}.$

Communication interface

Communication interface CANO	pen
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Diagnosis

Location	
Number of axis	3
Roll Euler angle measuring range	± 180°
Pitch Euler angle measuring range	± 90°
Yaw Euler angle measuring range	± 180°
Resolution	0.02°
Roll repeatability	±1°
Pitch repeatability	±1°
Yaw repeatability	± 1° ¹⁾
Maximum rotation rate	2,000 °/s
Quaternion w measuring range	0+1
Quaternion x measuring range	-1 1
Quaternion y measuring range	-1 1
Quaternion z measuring range	-1 1
Update rate	100 Hz
Limit frequency	100 Hz
Initialization time	640 ms
Sampling rate	200 Hz ²⁾
Acceleration measuring range	± 16 g ²⁾
Rotation rate measuring range	± 2,000 °/s ²⁾

¹⁾ Not long-term stable.

Classifications

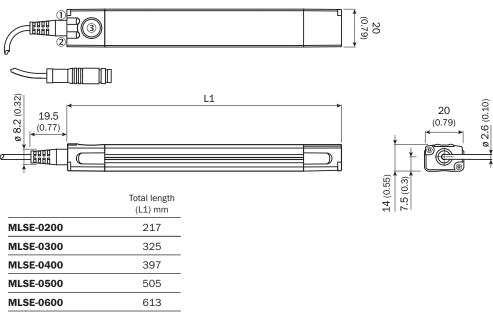
ECI@ss 5.0	27270104
ECI@ss 5.1.4	27270104
ECI@ss 6.0	27270104
ECI@ss 6.2	27270104
ECI@ss 7.0	27270104
ECI@ss 8.0	27270104
ECI@ss 8.1	27270104
ECI@ss 9.0	27270104
ECI@ss 10.0	27270104
ECI@ss 11.0	27270104
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
UNSPSC 16.0901	39122230

²⁾ Raw data.

Connection diagram

Cd-396

Dimensional drawing (Dimensions in mm (inch))



- ① Function signal indicator 1
- ② Function signal indicator 2
- 3 Teach-Pad

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Bracket for low mounting, Stainless steel V2A (bracket/mounting screw), Brass (fixing screw)	BEF-WNLO1MPA	2065973
	Bracket for lateral mounting, Stainless steel V2A (bracket/mounting screw), Brass (fixing screw)	BEF-WNZ01MPA	2065577

	Brief description	Туре	Part no.
Adapters and	distributors		
	CAN-USB Adapter to connect MLS with a PC	AKA-NXL1BXB12KX	6067651
VB.	Y-cable to connect MLS to a CAN-USB Adapter and a power supply	YF8U14- 011VA3FYDN2	2098412
Plug connecto	ors and cables		
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF8U14- 020UA3XLEAX	2094791
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF8U14- 050UA3XLEAX	2094792
	Head A: female connector, M8, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG8U14- 020UA3XLEAX	2095589
	Head A: female connector, M8, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG8U14- 050UA3XLEAX	2095590
Magnets			
	Magnetic tape, North is top side, adhesive, width 25 mm, length 50 m	MAGNETIC TAPE	5337613
	Magnetic tape, South is top side, adhesive, width 25 mm, length 50 m	MAGNETIC TAPE	5337614
	Positioning device for magnetic markers (5337613, 5337614) for MLS	TEMPLATE	4097520

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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.

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