



MLSE-0600A2NP0

MLS

LINE GUIDANCE AND GRID LOCALIZATION

SICK
Sensor Intelligence.



Ordering information

Type	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
Connection type	Cable with M8 male connector, 4-pin, 0.3 m ¹⁾
Connection type Detail	
Conductor cross-section	0.08 mm ²
Material	
Housing	Metal Aluminum Plastic

¹⁾ Do not bend below 0 °C.

	Cable	PUR
UL File No.	NRKH.E181493 & NRKH7.E181493	

¹⁾ Do not bend below 0 °C.

Communication interface

Communication interface	CANopen
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Diagnosis

Orientation		
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.

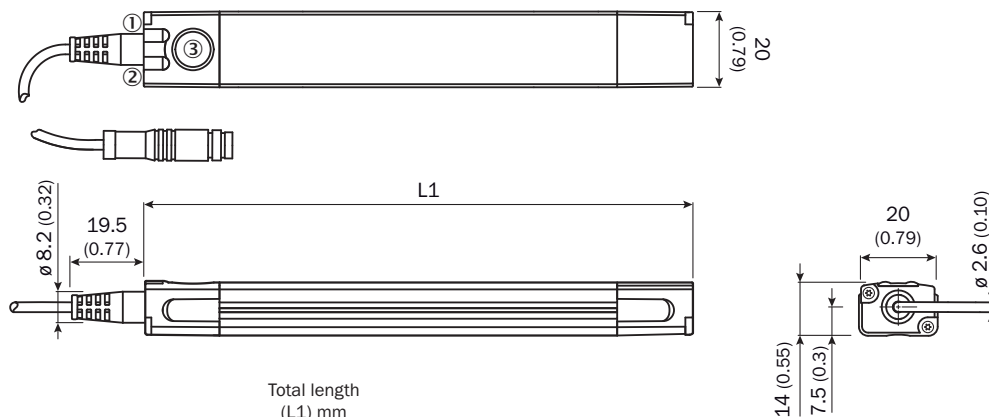
²⁾ Raw data.

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
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

Dimensional drawing (Dimensions in mm (inch))

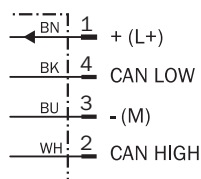


	Total length (L1) mm
MLSE-0200	217
MLSE-0300	325
MLSE-0400	397
MLSE-0500	505
MLSE-0600	613

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

Connection diagram





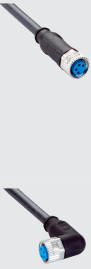
Cd-396



Recommended accessories

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

	Brief description	Type	Part no.
Bus adapter			
	CAN-USB Adapter to connect MLS with a PC	AKA-NXL1BxB12KX	6067651

	Brief description	Type	Part no.
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
Distributors			
	YF8U14-011VA3FYDN2	YF8U14-011VA3FYDN2	2098412
Mounting brackets and plates			
	Bracket for low mounting, Stainless steel V2A (bracket/mounting screw), Brass (fixing screw)	BEF-WNL01MPA	2065973
	Bracket for lateral mounting, Stainless steel V2A (bracket/mounting screw), Brass (fixing screw)	BEF-WNZ01MPA	2065577
Plug connectors 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

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com