



SAFETY SINGLE-BEAM SENSORS



L40E-21MA1A | L4000 Systems

SAFETY SINGLE-BEAM SENSORS



Ordering information

Scanning range	Model	Housing material	System part	Туре	Part no.
16 m	M18 axial	Nickel-plat- ed brass	Receiver	L40E-21MA1A	6027340

Other models and accessories -> www.sick.com/L4000_Systems

Detailed technical data

Features

Scanning range	16 m
Number of beams	1
Detection capability	30 mm
Optical axis	Axial
Response time	0.4 ms
Response time	0.4 ms + Test device response time (UE401)

Safety-related parameters

Туре	Type 4 (IEC 61496-1) ¹⁾
Safety integrity level	SIL 3 (IEC 61508) ¹⁾
Category	Category 4 (EN ISO 13849) ¹⁾
Performance level	PL e (EN ISO 13849) ¹⁾
$\ensuremath{PFH}\xspace_D$ (mean probability of a dangerous failure per hour)	2.9 x 10 ⁻¹⁰ (EN ISO 13849) ¹⁾
T _M (mission time)	20 years (EN ISO 13849) ¹⁾

¹⁾ Only in conjunction with UE401.

Interfaces	
Connection type	Male connector M12, 4-pin, straight
Display elements	LED
Electrical data	
Protection class	III (IEC 61140)
Supply voltage V _S	24 V DC (19.2 V DC 28.8 V DC)
Power consumption	≤ 30 mA
Mechanical data	
Design	Cylindrical
Dimensions (diameter x length)	M18 x 97.7 mm

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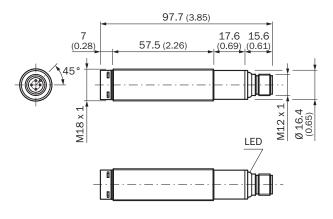
Housing material	Nickel-plated brass
Lens material	Glass
Weight	67 g
Ambient data	
Enclosure rating	IP67 (EN 60529)
Ambient operating temperature	-20 °C +55 °C
Storage temperature	-25 °C +75 °C
Air humidity	15 % 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 60068-2-6)
Shock resistance	10 g, 16 ms (IEC 60068-2-29)
Other information	
Aperture angle/receiving angle	± 2.5° / ± 2.5°
Classifications	
ECLASS 5.0	27272701
ECLASS 5.1.4	27272701
ECLASS 6.0	27272701
ECLASS 6.2	27272701
ECLASS 7.0	27272701
ECLASS 8.0	27272701
ECLASS 8.1	27272701
ECLASS 9.0	27272701
ECLASS 10.0	27272701
ECLASS 11.0	27272701
ECLASS 12.0	27272701
ETIM 5.0	EC001831
ETIM 6.0	EC001831
ETIM 7.0	EC001831
ETIM 8.0	EC001831
UNSPSC 16.0901	46171620

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Dimensional drawing (Dimensions in mm (inch))

M18, axial, straight



Recommended accessories

Other models and accessories → www.sick.com/L4000_Systems

	Brief description	Туре	Part no.
Alignment aid	ls		
N	Adapter AR60 for M18 sensors (L41 and L21)	AR60 adapter, M18 sensors	5313533
Deflector mirrors			
þ	Horizontal deflection, 75 mm x 80 mm reflector surface, Glass, Incl. mounting kit (2 x swivel mount)	PNS75-008	1026647
	Horizontal deflection, 96 mm x 124 mm reflector surface, Glass	PSK1	1005229
	Deflector mirror for 90 $^\circ$ deflection, mirror surface 97 mm x 80 mm, not suitable for column mounting, Glass, mounting hardware included	PSK45	5306053
Mounting brackets and plates			
40	Mounting bracket for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M18	5308446
Plug connectors and cables			
N	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14-050VB3XLEAX	2096235

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	Brief description	Туре	Part no.
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14-050VB3XLEAX	2095897
	 Connection type head A: Female connector, M12, 4-pin, straight Description: Unshielded, Head A: female connector, M12, 4-pin, straight, unshielded, for power supply, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	DOS-1204-G	6007302
No.	 Connection type head A: Female connector, M12, 4-pin, angled Description: Unshielded, Head A: female connector, M12, 4-pin, angled, unshielded, for power supply, for cable diameter 3 mm 6.5 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	DOS-1204-W	6007303
Switching amplifiers			
	 Applications: Evaluation unit Compatible sensor types: L4000 Systems single-beam photoelectric safety switches 	UE401-A0010	6027343

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For us, that is "Sensor Intelligence."

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