



L40S-33MA2A

L4000 Systems

SAFETY SINGLE-BEAM SENSORS





Ordering information

Scanning range	Model	Housing material	System part	Туре	Part no.
84 m	M30 axial	Nickel-plat- ed brass	Sender	L40S-33MA2A	6027335

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



Detailed technical data

Features

Light source	LED
Type of light	Visible red light
Scanning range	84 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)
$\mbox{PFH}_{\mbox{\scriptsize D}}$ (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, angled
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	≤ 60 mA

Mechanical data

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Dimensions (diameter x length)	M30 x 100 mm
Housing material	Nickel-plated brass
Lens material	Glass
Weight	212 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

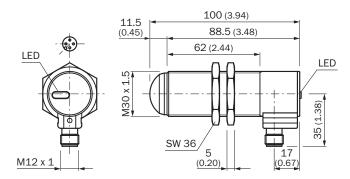
Light source	LED
Type of light	Visible red light
Wave length	660 nm
Aperture angle/receiving angle	± 2.5° / ± 2.5°

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

Dimensional drawing (Dimensions in mm (inch))

M30, axial, angled



Recommended accessories

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

	Brief description	Туре	Part no.		
Alignment aids					
	Adapter AR60 for M30 sensors (L4000 Systems, L41 and L21)	AR60 adapter, M30 sensors	5311529		
Deflector min	rrors				
	Horizontal deflection, 75 mm x 80 mm reflector surface, Glass, Incl. mounting kit (2 x swivel mount)	PNS75-008	1026647		
1 de 1	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 bra	Mounting brackets and plates				
40	Mounting bracket for M30 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M30	5308445		
Others					
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, 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.	
	Connection type head A: Female connector, M12, 4-pin, straight, A-coded 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	
	Connection type head A: Female connector, M12, 4-pin, angled, A-coded 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				
A Townson	Applications: Evaluation unit Compatible sensor types: L4000 Systems single-beam photoelectric safety switches	UE401-A0010	6027343	

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