

L40E-21KA1A

L4000 Systems

SAFETY SINGLE-BEAM SENSORS





Ordering information

Туре	part no.
L40E-21KA1A	6027338

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)
$\mbox{PFH}_{\mbox{\scriptsize D}}$ (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, straight
Display elements	LED

Electronics

Protection class	III (IEC 61140)
Supply voltage $V_{\rm S}$	24 V DC (19.2 V DC 28.8 V DC)
Power consumption	≤ 30 mA

Mechanics

Design	Cylindrical
Dimensions (diameter x length)	M18 x 97.7 mm
Housing material	Plastic
Front screen material	Glass
Weight	30 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 60068-2-27)

Other information

Aperture angle/receiving angle	± 2.5° / ± 2.5°
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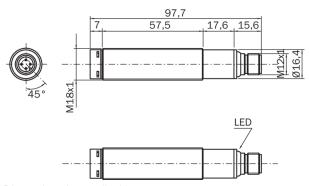
Classifications

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

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
EC-Type-Examination approval	✓

Dimensional drawing M18, axial, straight



Dimensions in mm (inch)

Recommended accessories

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

	Brief description	Туре	part no.	
Mounting sys	Mounting systems			
40	 Description: Mounting bracket for M18 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware Suitable for: GR18, V180-2, V18, W15, Z1, Z2 	BEF-WN-M18	5308446	
Commissioni	ng aids and test equipment			
	 Product: Alignment aids Description: Adapter AR60 for M18 sensors (L41 and L21) 	AR60 adapter, M18 sensors	5313533	
reflectors and	doptics			
		PNS75-008	1026647	
· contract		PSK1	1005229	
		PSK45	5306053	

	Brief description	Туре	part no.		
system plugs	system plugs and extension modules				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 Applications: Evaluation unit Description: UE401 evaluation unit Compatible sensor types: L4000 Systems single-beam photoelectric safety switches Mounting: Snap-on mounting on 35 mm mounting rail according to EN 60715 	UE401-A0010	6027343		
connectors ar	nd cables				
	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, Uncontaminated zones	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, Uncontaminated zones 	YF2A14-050VB3XLEAX	2096235		
	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		

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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.

For us, that is "Sensor Intelligence."

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