

C20S-120104A11 C2000 Standard

SAFETY LIGHT CURTAINS



C20S-120104A11 | C2000 Standard

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Ordering information

Housing cross-section	Protective field height	System part	Туре	Part no.
34 mm x 29 mm	1,200 mm	Sender	C20S-120104A11	1016596

Important notes: 1.) Concerns installation as a spare part: This type 2 device may be used as per section 1, paragraph (2a) of Machinery Directive 2006/42/EC within the EU as a spare part for identical PL d/SIL2 devices only if the machine was put on the market before May 10, 2015. Keep this note with your machine documentation. If the machine is resold, this note must be passed on to the next buyer. 2.) Concerns installation in new machines: Due to the amendment to the EN/IEC 61496-1 standard, this type 2 device may only be installed on new machines up to PLc/SIL1 as of May 10, 2015.

Other models and accessories → www.sick.com/C2000_Standard

Illustration may differ

Detailed technical data

Features	
Resolution	40 mm
Protective field height	1,200 mm
Scanning range	0 m 6 m
Synchronization	Optical synchronisation
Safety-related parameters	
Туре	Type 2 (IEC 61496-1)
Safety integrity level	SIL 1 (IEC 61508)
Category	Category 2 (EN ISO 13849)
Test rate (internal test)	13 /s (EN ISO 13849) ¹⁾
Maximum demand rate	≤ 8 min ⁻¹ (EN ISO 13849) ²⁾
Performance level	PL c (EN ISO 13849)
$\ensuremath{\text{PFH}}\xspace_D$ (mean probability of a dangerous failure per hour)	2.2 x 10 ⁻⁸ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)
Safe state in the event of a fault	At least one OSSD is in the OFF state.

¹⁾ Internal test. The test rate may not be exceeded if an external test is performed.

²⁾ Between two requirements on a safety-related response of the device, at least 100 internal or external tests must be carried out.

Functions

		Functions	Delivery status
Beam coding		✓	Uncoded
Interfaces			
System connection		Male connector M12, 8-pin	
	Conductor cross section	0.25 mm ²	
	Permitted cable length	\leq 15 m ¹⁾	

¹⁾ The length of the connecting cable is limited, because wire resistance max. 4 Ohm.

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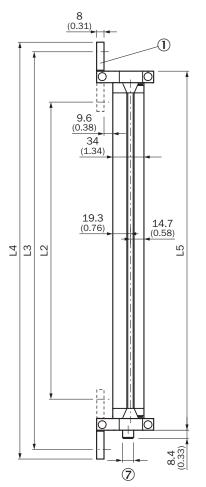
Configuration method	Hard wired
Display elements	7-segment display
Status display	LEDs
¹⁾ The length of the connecting cable is limited, because Electrical data	wire resistance max. 4 Uhm.
Protection class	III (EN 50178)
Mechanical data	
Housing cross-section	34 mm x 29 mm
Ambient data	
Enclosure rating	IP65 (EN 60529)
Ambient operating temperature	0 °C +55 °C
Storage temperature	-25 °C +70 °C
Air humidity	15 % 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
Shock resistance	10 g, 16 ms (EN 60068-2-29)
Other information	
Wave length	950 nm
Classifications	
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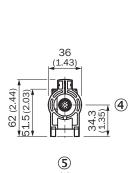
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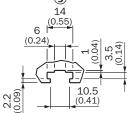
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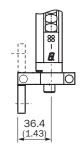
Dimensional drawing (Dimensions in mm (inch))

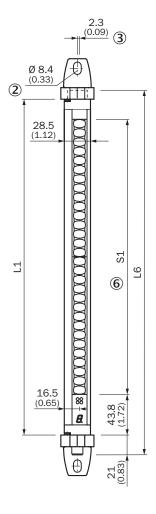
Protective field heights 150 mm to 1200 mm











Sender with swivel mount, small housing (receiver mirror image)

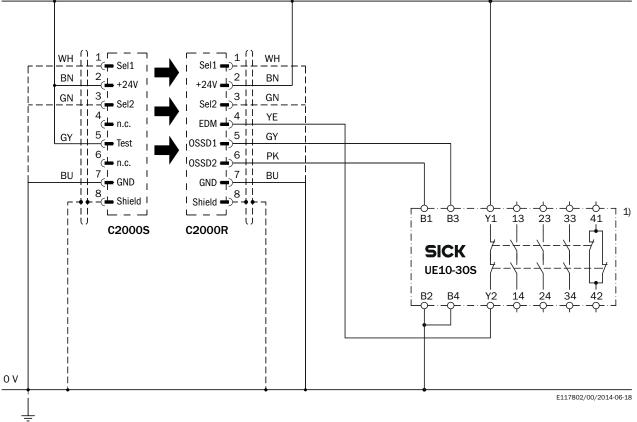
- ① Mounting clamp
- ② M8 hexagon screw, DIN 933 with DIN 9021 washer (not included with delivery)
- ③ Center of light beam offset
- ④ Adjustment
- (5) Sliding nut groove for side mounting
- Protective field height
- ⑦ Male connector M12, 8-pin

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Connection diagram

C2000 Standard to UE10-30S safety relay





Recommended accessories

Other models and accessories → www.sick.com/C2000_Standard

	Brief description	Туре	Part no.				
Alignment aid	s						
Ŵ	Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!, 19 mm x 67.3 mm x 66.9 mm	AR60	1015741				
Plug connecto	Plug connectors and cables						
	 Connection type head A: Female connector, M12, 8-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm² 	DOS-1208-G	6028422				
Terminal and alignment brackets							
	4 pieces, Mounting kit 6, side bracket, rotatable, zinc diecast	BEF-1SHABAZN4	2019506				

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



Online data sheet

