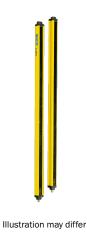


C20E-060304A11

C2000 Standard

SAFETY LIGHT CURTAINS





Ordering information

Туре	part no.
C20E-060304A11	1016577

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

Detailed technical data

Features

Resolution	40 mm
Protective field height	600 mm
Response time	≤ 34 ms
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)
$\mbox{PFH}_{\mbox{\scriptsize D}}$ (mean probability of a dangerous failure per hour)	$2.2 \times 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.

Functions

	Functions	Delivery status
External device monitoring (EDM)	✓	Activated
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.

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

Configuration method	Hard wired
Display elements	7-segment display
Status display	LEDs

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

Electrical data

Protection class	III (EN 50178)
Output signal switching devices (OSSDs)	
Type of output	2 PNP semiconductors, short-circuit protected, cross-circuit monitored $^{1)}$
ON state, switching voltage HIGH	24 V DC (V _S - 2.25 V DC V _S)
OFF state, switching voltage LOW	≤ 3.5 V DC
Current-carrying capacity per OSSD	≤ 500 mA

 $^{^{1)}}$ Applies to the voltage range between $-30\ \mathrm{V}$ and $+30\ \mathrm{V}.$

Mechanical data

Housing cross-section	34 mm x 29 mm
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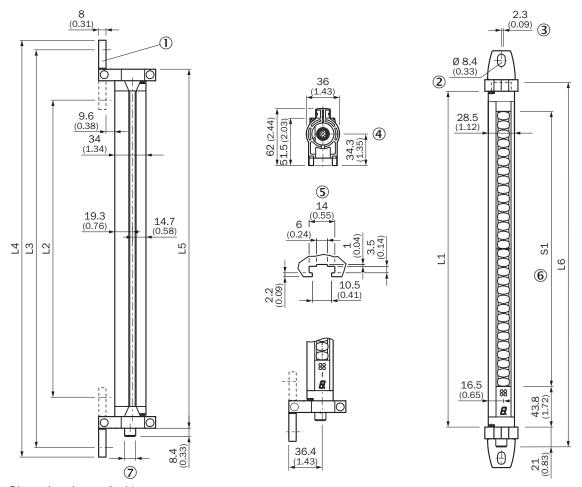
Ambient data

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)

Classifications

ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	27272704
ECLASS 6.2	27272704
ECLASS 7.0	27272704
ECLASS 8.0	27272704
ECLASS 8.1	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704
ECLASS 12.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	46171620

Dimensional drawing Protective field heights 150 mm to 1200 mm



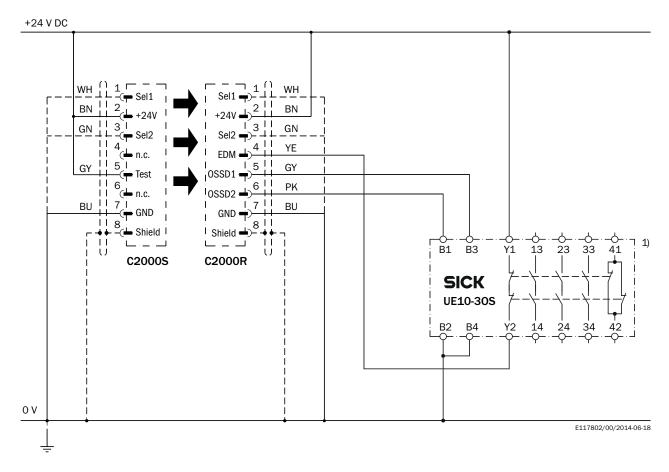
Dimensions in mm (inch)

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

-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	17	-	-	-	-
-	-	17	-	-	-	-
-	-	+	-	+	+	+
-	-	+	-	-	+	-
-	-	+	-	-	+	+
-	-	-	-	-	-	-

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.
Commissionin	ng aids and test equipment		
	 Product: Alignment aids Dimensions (W x H x L): 19 mm 67.3 mm 66.9 mm Description: Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam! 	AR60	1015741
Mounting syst	tems		
	Description: Mounting kit 6, side bracket, rotatable Material: Zinc diecast Details: Zinc diecast Packing unit: 4 pieces Suitable for: All protective field heights	BEF-1SHABAZN4	2019506

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SAFETY LIGHT CURTAINS

	Brief description	Туре	part no.
connectors and cables			
	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm² 	DOS-1208-G	6028422

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."

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