

C20E-105303D41

C2000 Eco

SAFETY LIGHT CURTAINS



Illustration may differ



Ordering information

Housing cross-section	Protective field height	System part	Туре	Part no.
34 mm x 29 mm	1,050 mm	Receiver	C20E-105303D41	1041590

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 10/5/2015. 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 5/10/2015.

Other models and accessories → www.sick.com/C2000_Eco

Detailed technical data

Features

Resolution	30 mm
Protective field height	1,050 mm
Synchronization	Optical synchronisation

Safety-related parameters

Туре	Type 2 (IEC 61496-1)
Safety integrity level	SIL1 (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)
$\ensuremath{PFH_D}$ (mean probability of a dangerous failure per hour)	2.2×10^{-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.

Interfaces

System connection	Male connector M12, 5-pin
Conductor cross section	0.25 mm ²
Permitted cable length	\leq 15 m $^{1)}$
Configuration method	None
Display elements	LED

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

Electrical data

Protection class

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

Output signal switching devices (OSSDs)

Type of output 2 PNP semiconductors, short-circuit protected, cross-circuit monitored

Ambient data

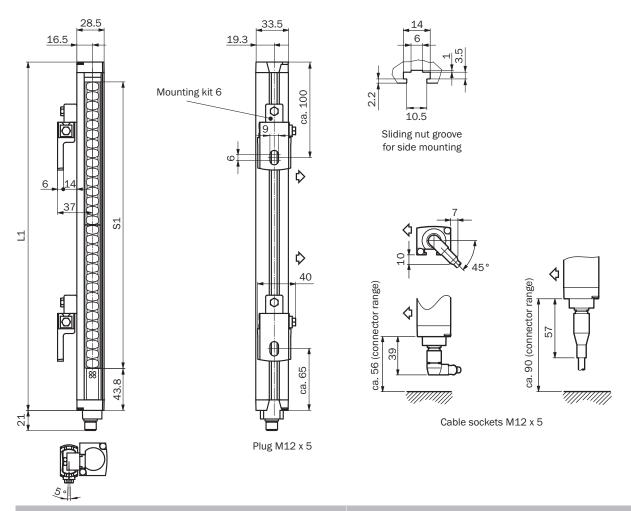
Enclosure rating	IP54 (EN 60529)
Ambient operating temperature	0 °C +55 °C
Storage temperature	-25 °C +70 °C
Air humidity	15 % 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
Shock resistance	10 g, 16 ms (EN 60068-2-29)

Classifications

eCl@ss 5.0	27272704
eCl@ss 5.1.4	27272704
eCl@ss 6.0	27272704
eCl@ss 6.2	27272704
eCl@ss 7.0	27272704
eCl@ss 8.0	27272704
eCl@ss 8.1	27272704
eCl@ss 9.0	27272704
eCl@ss 10.0	27272704
eCl@ss 11.0	27272704
eCl@ss 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 (Dimensions in mm (inch))

Illustration sender (receiver mirror image)



S1	L1
150 (5.91)	246 (9.69)
300 (11.81)	364 (14.33)
450 (17.72)	515 (20.28)
600 (23.62)	666 (26.22)
750 (29.53)	816 (32.13)
900 (35.43)	967 (38.07)
1,050 (41.34)	1,117 (43.98)
1,200 (47.24)	1,266 (49.84)

Recommended accessories

Other models and accessories → www.sick.com/C2000_Eco

	Brief description	Туре	Part no.	
Alignment aid	Alignment aids			
	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			
100	Head A: female connector, M12, 5-pin, straight, A-coded Head B: male connector, M12, 5-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A15-020UB5M2A15	2096009	
Terminal and alignment brackets				
	4 pieces, Mounting kit 6, side bracket, rotatable, zinc diecast	BEF-1SHABAZN4	2019506	

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