

C20E-060303A31

C2000 RES/EDM

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.

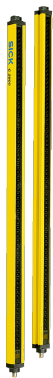


Illustration may differ

Ordering information

Type	part no.
C20E-060303A31	1041572

Other models and accessories → www.sick.com/C2000_RES_EDM

Detailed technical data

Features

Resolution	30 mm
Protective field height	600 mm
Synchronization	Optical synchronisation

Safety-related parameters

Type	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)
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.

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

Interfaces

System connection	Male connector M12, 8-pin
Conductor cross section	0.25 mm ²
Permitted cable length	≤ 15 m ¹⁾
Configuration method	Hard wired
Display elements	LED/7-segment

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
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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

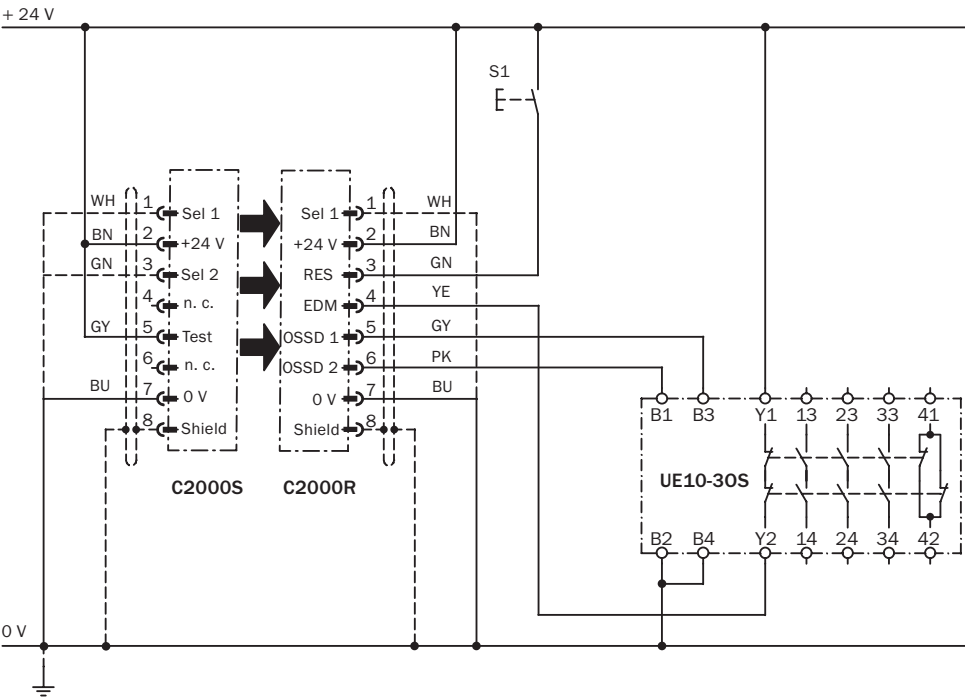
ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	27272704
ECLASS 6.2	27272704
ECLASS 7.0	27272704
ECLASS 8.0	27272704
ECLASS 8.1	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704
ECLASS 12.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC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

[illegible]

- 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
- ⑥ Protective field height
- ⑦ male connector M12, 8-pin



[illegible]

Connection diagram C2000 RES/EDM safety light curtain to UE10-30S safety relay



Recommended accessories

Other models and accessories → www.sick.com/C2000_RES_EDM

	Brief description	Type	part no.
Commissioning aids and test equipment			
	<ul style="list-style-type: none">• 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 systems			
	<ul style="list-style-type: none">• 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

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