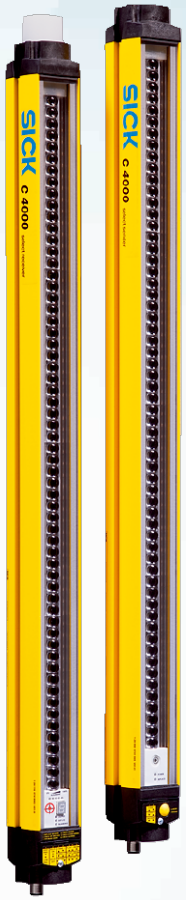
Product data sheet



XC40E-1803A0A0CBA0

C4000 Select

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.

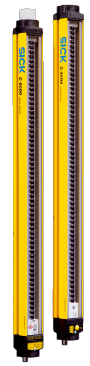


Illustration may differ

Ordering information

Resolution	Scanning range	Protective field height	System part	Type	Part no.
30 mm	21 m	1,800 mm	Receiver	XC40E-1803A0A0C-BA0	1204165

Other models and accessories → www.sick.com/C4000_Select

Detailed technical data

Features

Application	Normal industrial environment
System part	Receiver
Resolution	30 mm
Scanning range	21 m
Protective field height	1,800 mm
Synchronization	Optical synchronisation

Safety-related parameters

Type	Type 4 (IEC 61496-1)
Safety integrity level	SIL3 (IEC 61508) SILCL3 (EN 62061)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
PFH_D (mean probability of a dangerous failure per hour)	3.2×10^{-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.

Functions

	Functions	Delivery status
Protective operation	✓	
Beam coding	✓	Uncoded
Configurable scanning range	✓	
Floating blanking	✓	

Interfaces

System connection	Male connector M12, 5-pin
Permitted cable length	≤ 30 m [1]
Extension connection	Female connector M12, 5-pin
Configuration method	DIP switch
Display elements	7-segment display
Fieldbus, industrial network	
Integration via Flexi Soft safety controller	CANopen [2] DeviceNet™ EtherCAT® EtherNet/IP™ Modbus TCP PROFIBUS DP PROFINET

[1] Depending on load, power supply and wire cross-section. The technical specifications must be observed.
[2] For additional information on Flexi Soft -> www.sick.com/Flexi_Soft.

Electrical data

Protection class	III (IEC 61140)
Supply voltage V_S	24 V DC (19.2 V ... 28.8 V) [1]
Residual ripple	≤ 10 % [2]
Output signal switching devices (OSSDs)	
Type of output	2 PNP semiconductors, short-circuit protected, cross-circuit monitored
ON state, switching voltage HIGH	24 V DC (V_S – 2.25 V DC ... V_S)
OFF state, switching voltage LOW	2 V DC
Current-carrying capacity per OSSD	≤ 500 mA

[1] The external voltage supply must be capable of buffering brief mains voltage failures of 20 ms as specified in EN 60204-1. Suitable power supplies are available as accessories from SICK.
[2] Within the limits of V_S.

Mechanical data

Dimensions	See dimensional drawing
Housing material	Aluminum extruded profile

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 (EN 60068-2-6)
Shock resistance	10 g, 16 ms (EN 60068-2-27)

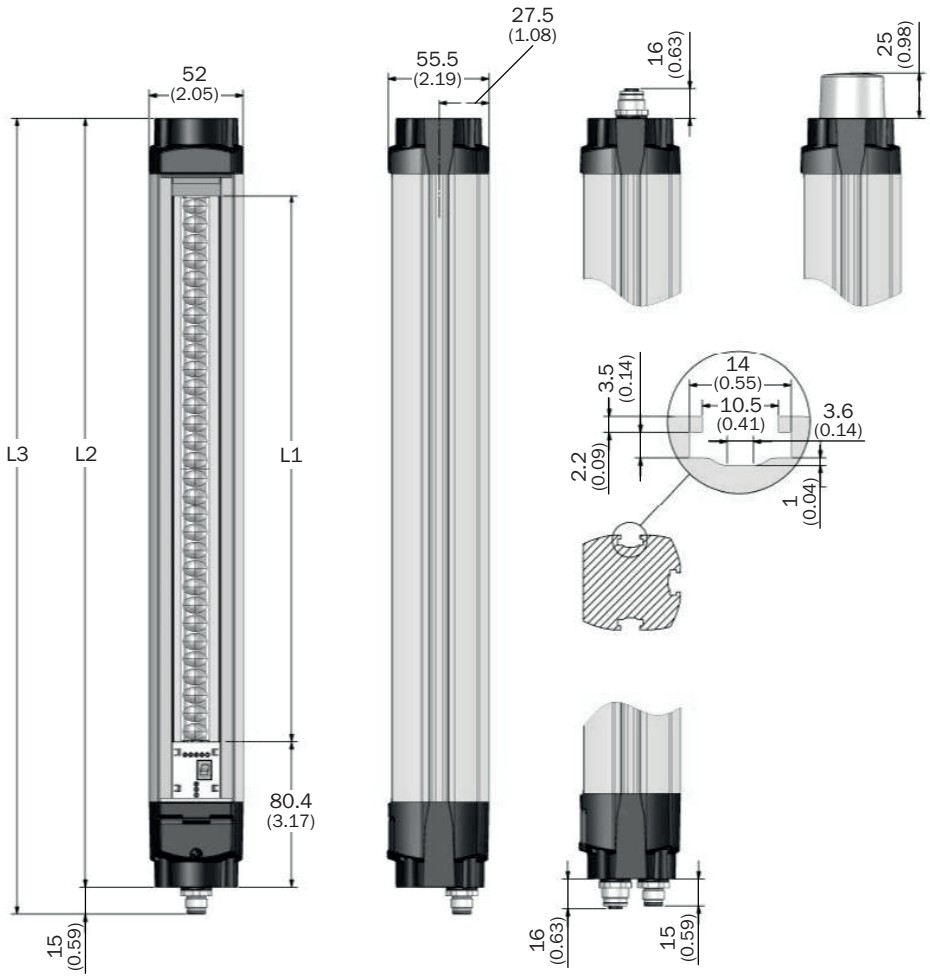
Classifications

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
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
UNSPSC 16.0901	46171620

Dimensional drawing (Dimensions in mm (inch))

Receiver



Protective field height S	L1	L2	L3
300 (11.81)	302 (11.89)	425 (16.73)	440 (17.32)
450 (17.72)	452 (17.80)	575 (22.64)	590 (23.23)
600 (23.62)	602 (23.70)	725 (28.54)	740 (29.13)

Protective field height S	L1	L2	L3
750 (29.53)	752 (29.61)	875 (34.45)	890 (35.04)
900 (35.43)	902 (35.51)	1,025 (40.35)	1,040 (40.94)
1,050 (41.34)	1,052 (41.42)	1,175 (46.26)	1,190 (46.85)
1,200 (47.24)	1,202 (47.32)	1,325 (52.17)	1,340 (52.76)
1,350 (53.15)	1,352 (53.23)	1,475 (58.07)	1,490 (58.66)
1,500 (59.06)	1,502 (59.13)	1,625 (63.98)	1,640 (64.57)
1,650 (64.96)	1,652 (65.04)	1,775 (69.88)	1,790 (70.47)
1,800 (70.87)	1,802 (70.94)	1,925 (75.79)	1,940 (76.38)

Recommended accessories

Other models and accessories ➜ www.sick.com/C4000_Select

	Brief description	Type	Part no.
Mounting brackets and plates			
	4 pieces, Mounting kit 1, mounting bracket, rigid, L-shaped, including fixing screws and washers	BEF-3WNGBAST4	7021352
Terminal and alignment brackets			
	4 pieces, Mounting kit 6, side bracket, rotatable, zinc diecast	BEF-1SHABAZN4	2019506
	4 pieces, Mounting kit 12, rotatable, swivel mount	BEF-2SMGEAKU4	2030510
Alignment aids			
	Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!	AR60	1015741
Optics cloths			
	Cloth for cleaning optical surfaces	Lens cloth	4003353
Cleaning agent			
	Plastic cleaner and care product, anti-static, 0.5 liter	Plastic cleaner	5600006
Plug connectors and cables			
	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

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