



DATA SHEET

C4C-SX10510A10000

deTec
Safety light curtains

SICK

Sensor Intelligence

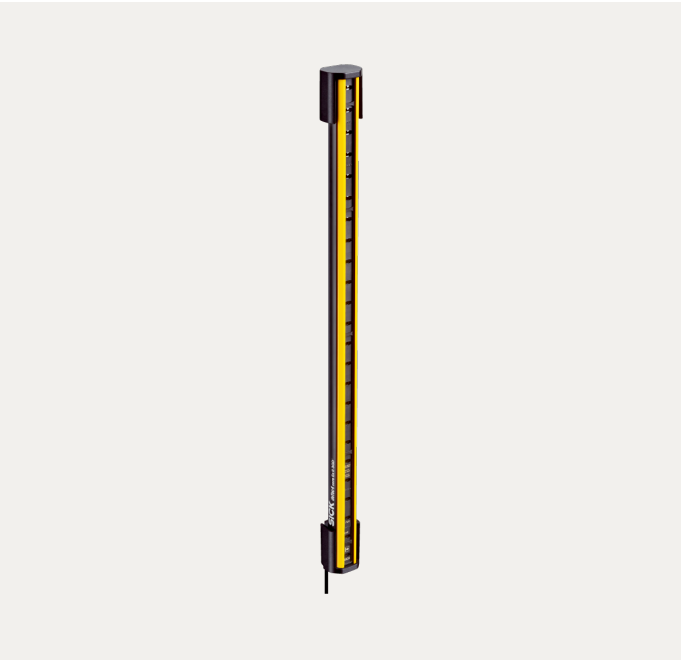


Illustration may differ

SAFETY LIGHT CURTAINS

C4C-SX10510A10000

ORDERING INFORMATION

Type	part no.
C4C-SX10510A10000	1220318

Further device versions and accessories at www.sick.com/deTec



DETAILED TECHNICAL DATA

FEATURES

Product version	deTec4 Core Ex II 3GD
Application	Explosive areas
Ex-approvals	ATEX for gas: II 3G Ex ec op is IIC T4 Gc ATEX for dust: II 3D Ex tc IIIC T135°C Dc
System part	Sender
Compatible receiver	1220331
Resolution	14 mm
Scanning range	10 m
Protective field height	1,050 mm
No blind zones	Yes
Synchronization	Optical synchronization
Items supplied	Sender

SAFETY-RELATED PARAMETERS

Type	Type 4 (IEC 61496-1)
Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (ISO 13849-1)
Performance level	PL e (ISO 13849-1)
PFH ₀ (mean probability of a dangerous failure per hour)	3.7 x 10 ⁻⁹
T _m (mission time)	20 years (ISO 13849-1)
Safe state in the event of a fault	At least one OSSD is in the OFF state.

INTERFACES

System connection	Plug, M12, 5-pin
Length of cable	150 mm

	Cable diameter	4.3 mm
Cable bend radius	Stationary position	> 12 x cable diameter
	Flexible use	> 15 x cable diameter
Display elements		LEDs

ELECTRONICS

Protection class	III (IEC 61140)
Supply voltage V_s	24 V DC (19.2 V ... 28.8 V)
Ripple	≤ 10 %
Power consumption typical	1.56 W (DC)

MECHANICS

Dimensions	See dimensional drawing
Housing material	Aluminum extruded profile

AMBIENT DATA

Enclosure rating	IP65 (IEC 60529) IP67 (IEC 60529)
Ambient operating temperature	0 °C ... +55 °C
Storage temperature	-30 °C ... +70 °C
Air humidity	15 % ... 95 %, Non-condensing
Vibration resistance	5 ... 150 Hz, 3,5 mm / 1 g (EN 60068-2-6)
Shock resistance	15 g / 6 ms (EN 60068-2-27)
Class	3M4 (IEC TR 60721-4-3)

OTHER INFORMATION

Wave length	850 nm
Type of light	Near-infrared (NIR), invisible

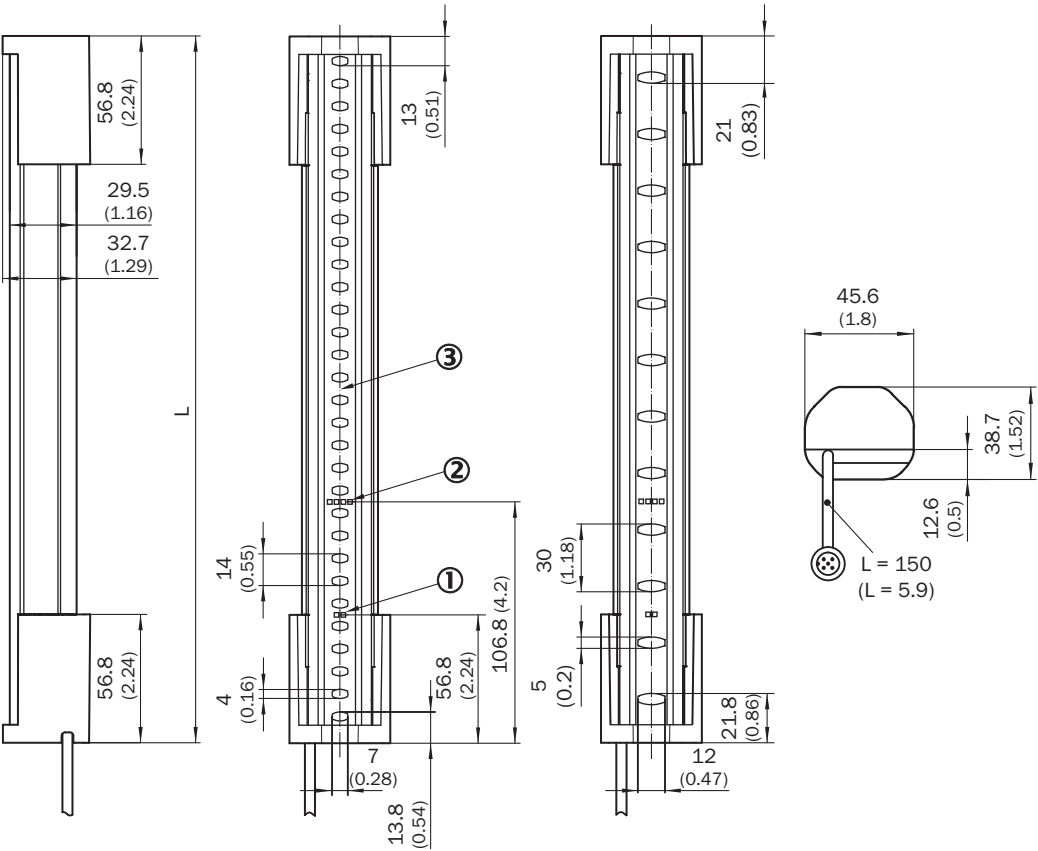
CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
CCC certificate	✓
IECEX certificate	✓
ULus approval	✓
cUL approval	✓
Taiwan OSHA certificate	✓
Japan Press Safety certificate	✓
EC-Type-Examination approval	✓
China EX Type-Examination certificate	✓
China GB/T certificate	✓

Information according to Art. 3 of Data Act (Regulation EU 2023/2854)

✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)

- ① Operating indicator
- ② Alignment indicator
- ③ Optical axis

L	
300	313
450	463
600	613
750	763
900	913
1,050	1,063
1,200	1,213
1,350	1,362
1,500	1,512
1,650	1,662
1,800	1,812
1,950	1,962
2,100	2,112

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1220318



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SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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