



DATA SHEET

C20S-105103D41

C2000 Eco
Safety light curtains

SICK Sensor Intelligence

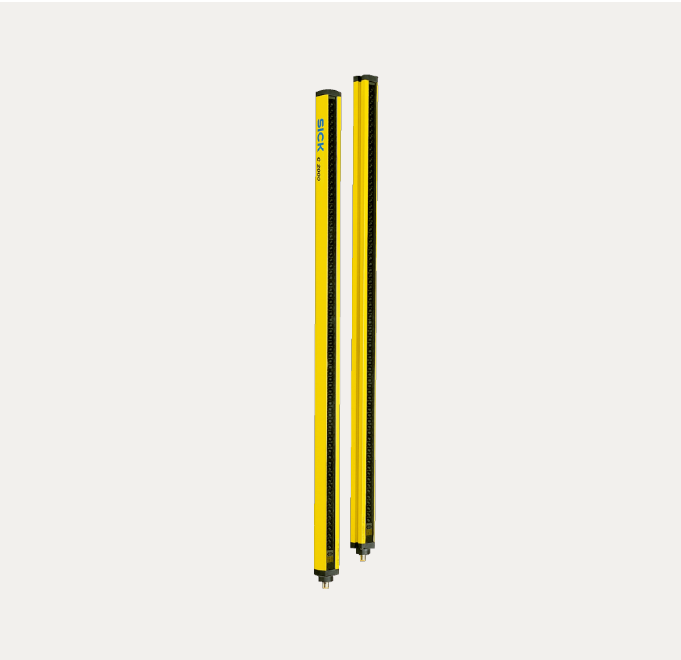


Illustration may differ

SAFETY LIGHT CURTAINS

C20S-105103D41

ORDERING INFORMATION

Type	part no.
C20S-105103D41	1041589

Further device versions and accessories at www.sick.com/C2000_Eco

DETAILED TECHNICAL DATA

FEATURES

Resolution	30 mm
Protective field height	1,050 mm
Scanning range	0 m ... 6 m
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 x 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, 5-pin
Conductor cross section	0.25 mm ²
Permitted cable length	≤ 15 m ¹⁾
Configuration method	None

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

Display elements	LED
------------------	-----

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

ELECTRICAL DATA

Protection class	III (EN 50178)
------------------	----------------

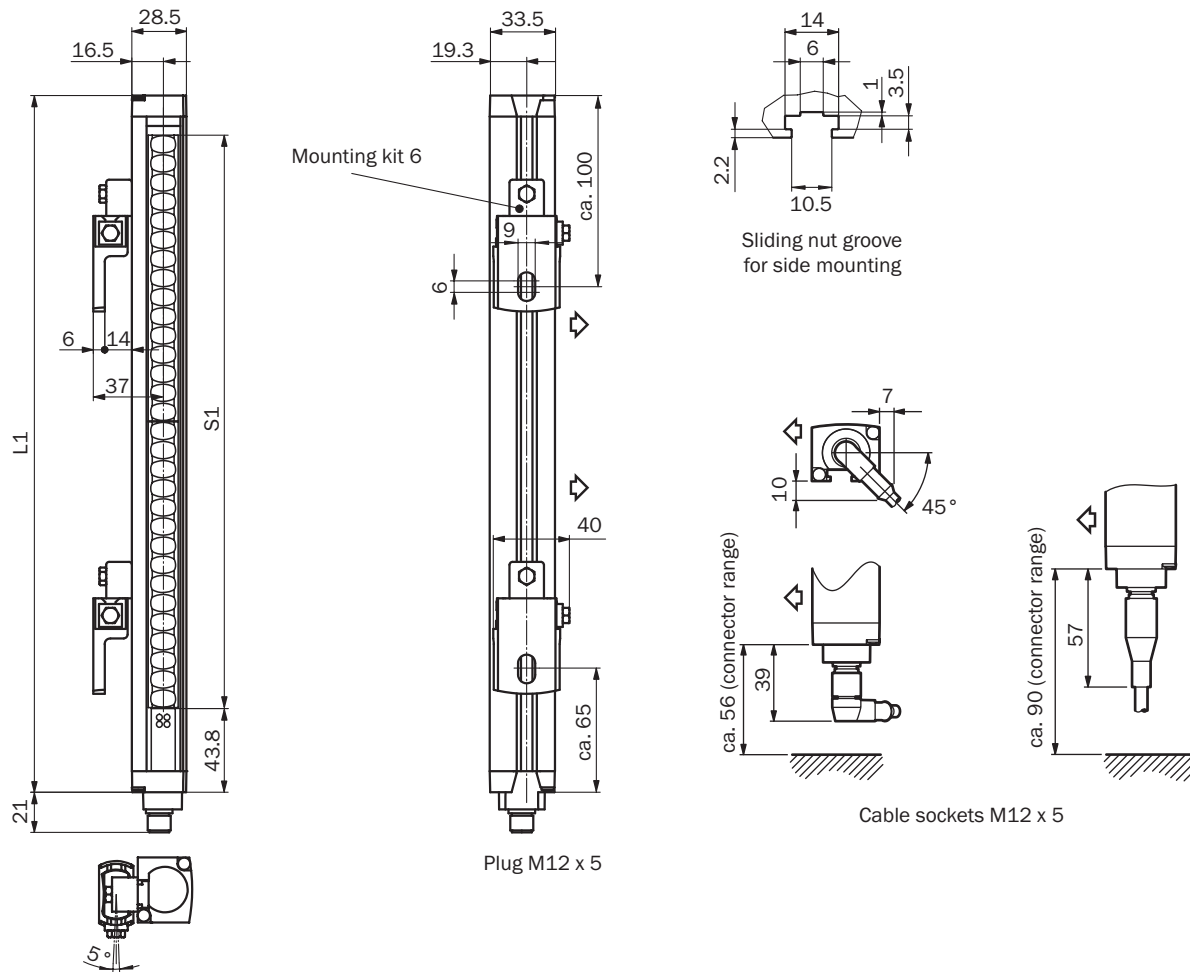
AMBIENT DATA

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)

OTHER INFORMATION

Wave length	950 nm
-------------	--------

DIMENSIONAL DRAWING ILLUSTRATION SENDER (RECEIVER MIRROR IMAGE)



Dimensions in mm (inch)

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)

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/1041589



SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

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

SICK
Sensor Intelligence