



DATA SHEET

C20E-075303D51

senSe
Safety light curtains

SICK Sensor Intelligence



Illustration may differ

SAFETY LIGHT CURTAINS

C20E-075303D51

ORDERING INFORMATION

Type	part no.
C20E-075303D51	1085117

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

DETAILED TECHNICAL DATA

FEATURES

System part	Receiver
Resolution	30 mm
Protective field height	750 mm
Scanning range	0 m ... 6 m
Response time	12.5 ms
Synchronization	Optical synchronisation
Certification	GB4584-2007

SAFETY-RELATED PARAMETERS

Safe state in the event of a fault	At least one OSSD is in the OFF state.
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INTERFACES

System connection	Connection type	Male connector M12, 5-pin
	Permitted cable length	≤ 15 m
	Permitted cross-section	≥ 0.25 mm²
Status display	LEDs	

ELECTRICAL DATA

Protection class	III
Supply voltage V _s	24 V DC (19.2 V DC ... 28.8 V DC)
Ripple	≤ 5 %

Power consumption	≤ 8 W (DC)
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 ($V_s - 2.25 \text{ V DC} \dots V_s$)
OFF state, switching voltage LOW	≤ 1 V DC
Current-carrying capacity per OSSD	≤ 500 mA

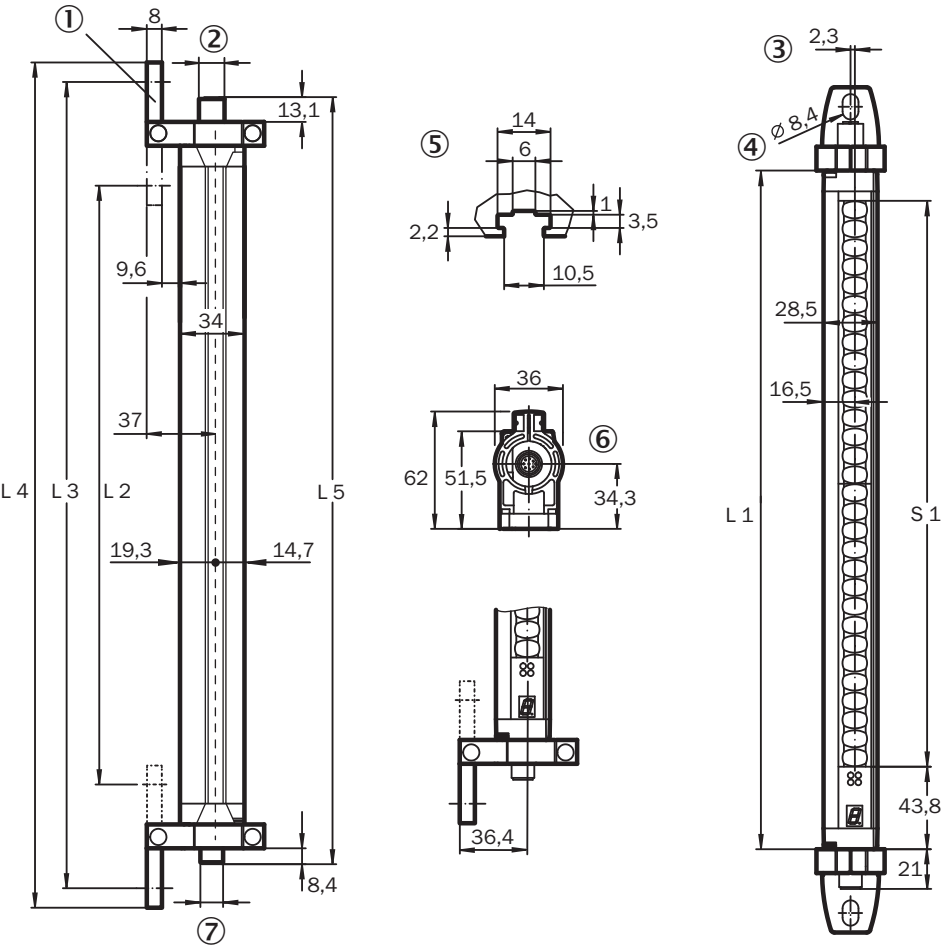
MECHANICAL DATA

Housing cross-section	34 mm x 29 mm
Weight	780 g (± 50 g)

AMBIENT DATA

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 60068-2-6)
Shock resistance	10 g, 16 ms (IEC 60068-2-29)

DIMENSIONAL DRAWING



- Dimensions in mm (inch)
- ① Clamp 180°, rotatable (mounting kit 1)
 - ② male connector M12 x 1 (standard)
 - ③ center of light beam offset
 - ④ M 8 hexagon screw DIN 933 with washer DIN 9021 (not included with delivery)
 - ⑤ sliding nut groove for side mounting
 - ⑥ adjustment
 - ⑦ male connector M12 x 1 (standard)

Protective field heightS1	L1	L2	L3	L4	L5
300	364	322	432	452	411
450	515	473	582	603	562
600	666	623	733	754	712
750	816	774	884	904	863
900	967	924	1,034	1,055	1,013

Further information as well as suitable accessories, example applications and downloads such as CAD di-
mensional models, operating instructions and software can be found at www.sick.com/1085117



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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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