Online data sheet

C2C-EA09010A10000

deTec2 Core

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
C2C-EA09010A10000	1213196

Other models and accessories → www.sick.de/deTec2_Core

Detailed technical data

Features

System part	Receiver
Resolution	14 mm
Protective field height	900 mm
Scanning range	
Minimum	0 m ... 7 m
Typical	0 m ... 8 m
Response time	≥ 14 ms
Synchronization	Optical synchronisation

Safety-related parameters

Type	Type 2 (IEC 61496)
Safety integrity level	SIL1 (IEC 61508) SILCL1 (EN 62061)
Category	Category 2 (EN ISO 13849)
Performance level	PL c (EN ISO 13849)
PFHd (mean probability of a dangerous failure per hour)	3.1×10^{-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.

Interfaces

System connection	
Connection type	Male connector M12, 5-pin
Permitted cable length	≤ 50 m
Fieldbus, industrial network	
Integration via Flexi Soft safety controller	CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus TCP, PROFIBUS DP, PROFINET [1]

[1] For further information on Flexi Soft, please see sens:Control – safe control solutions product catalog or -> www.sick.com/FlexiSoft.

Electrical data

Protection class	III (EN 50178)
Supply voltage V_S	24 V DC (19.2 V DC ... 28.8 V DC)
Ripple	≤ 2.4 V_{pp} [1]
Power consumption typical	2.88 W (DC)
Safety outputs (OSSD)	
Type of output	2 PNP semiconductors, short-circuit protected, cross-circuit monitored [2]
Switching voltage HIGH	24 V DC (V_S – 2.25 V DC ... V_S)
Switching voltage LOW	≤ 2 V DC
Switching current	≤ 300 mA

[1] Within the limits of V_S.

[2] Applies to the voltage range between –30 V and +30 V.

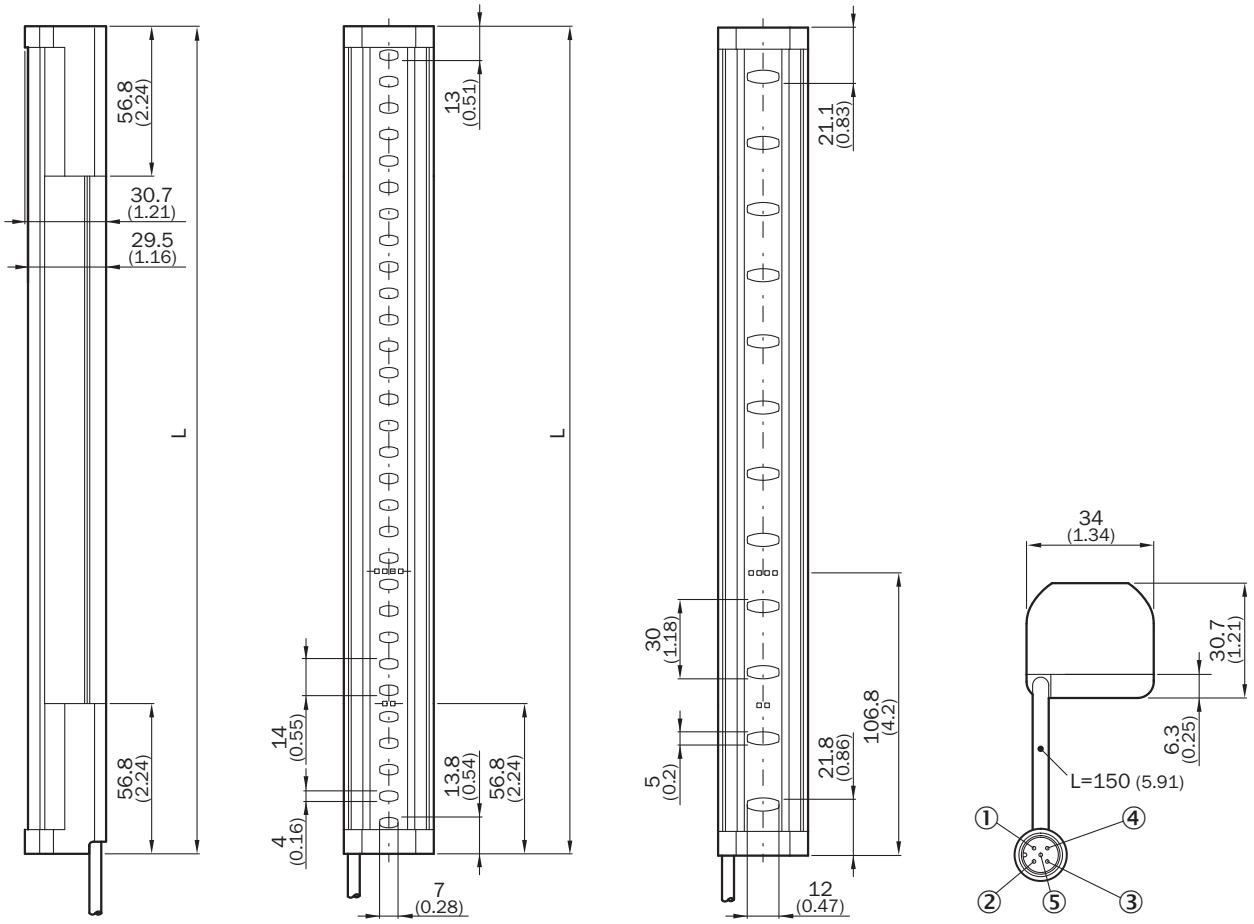
Mechanical data

Housing cross-section (incl. system connection)	34 mm x 30.7 mm
Housing material	Aluminum extruded profile
Weight	850 g

Ambient data

Enclosure rating	IP 65 (EN 60529) IP 67 (EN 60529)
Ambient operating temperature	–30 °C ... +55 °C
Storage temperature	–30 °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 60068-2-29)

Dimensional drawing (Dimensions in mm (inch))



USmod 4c int43

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