



C4C-EA15030A10000

deTec4 Core

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
C4C-EA15030A10000	1211506

Other models and accessories → www.sick.de/deTec4_Core



Detailed technical data

Features

System part	Receiver
Resolution	30 mm
Protective field height	1,500 mm
Scanning range	
Minimum	0 m ... 10 m
Typical	0 m ... 12 m
Response time	≥ 13 ms
Synchronization	Optical synchronisation

Safety-related parameters

Type	Type 4 (IEC 61496)
Safety integrity level	SIL3 (IEC 61508) SILCL3 (EN 62061)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
PFHd (mean probability of a dangerous failure per hour)	$3,7 \times 10^{-9}$ (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	$\leq 2.4 V_{pp}^{1)}$
Power consumption typical	2.4 W
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	$\leq 2 V$ DC
Switching current	≤ 300 mA

¹⁾ Within the limits of V_S .

²⁾ Applies to the voltage range between -30 V and +30 V.

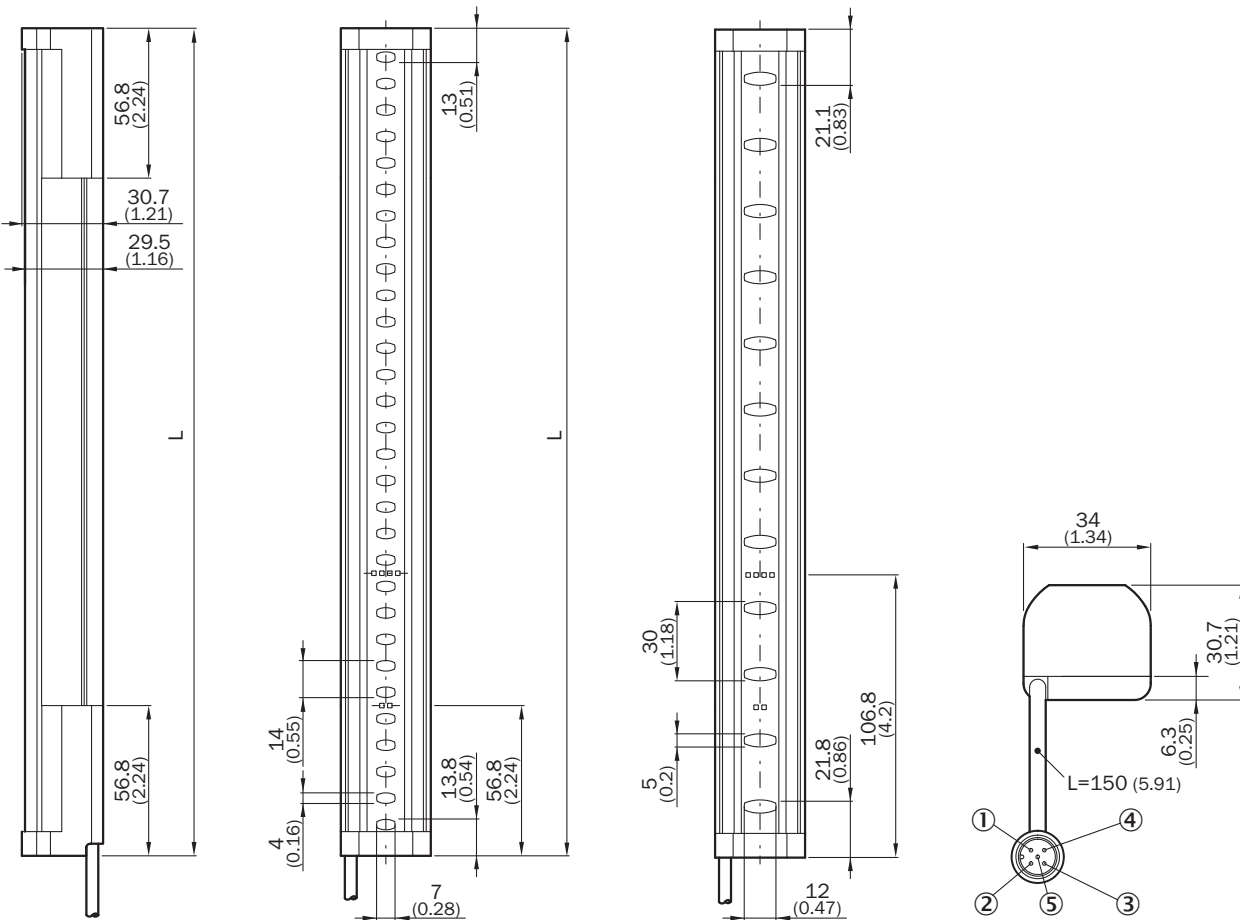
Mechanical data

Housing cross-section (incl. system connection)	34 mm x 30.7 mm
Housing material	Aluminum extruded profile
Weight	1,390 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))



Recommended accessories

Other models and accessories → www.sick.de/deTec4_Core

Brief description		Type	Part no.
Device protection (mechanical)			
	1 piece, self-adhesive protective film for the front screen (protects sensors from damage by flying sparks and welding beads)	Self-adhesive protective film	2069268
Terminal and alignment brackets			
	4 pieces, FlexFix bracket, plastic	BEF-1SHABPKU4	2066614
	2 pieces, QuickFix bracket, plastic	BEF-3SHABPKU2	2066048
Adapters and distributors			

	Brief description	Type	Part no.
	CANopen, 5-pin	DSC-1205T000025KM0	6030664
Plug connectors and cables			
	Head A: female connector, M12, 5-pin, straight Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1205-G02MC	6025906
	Head A: female connector, M12, 5-pin, straight Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1205-G05MC	6025907
	Head A: female connector, M12, 5-pin, straight Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1205-G10MC	6025908
	Head A: female connector, M12, 5-pin, straight Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 20 m	DOL-1205-G20MC	6050247
	Head A: female connector, M12, 5-pin, straight Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 30 m	DOL-1205-G30MC	6050248
	Head A: female connector, M12, 5-pin, angled Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1205-W02MC	6025909
	Head A: female connector, M12, 5-pin, angled Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1205-W05MC	6025910
	Head A: female connector, M12, 5-pin, angled Head B: Cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1205-W10MC	6025911
	Head A: female connector, M12, 5-pin, straight Head B: male connector, M12, 5-pin, straight Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DSL-1205-G05MC	6029282
	Head A: female connector, M12, 5-pin, straight Head B: male connector, M12, 5-pin, straight Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DSL-1205-G10MC	6038954
	Head A: female connector, M12, 5-pin, straight Head B: male connector, M12, 5-pin, straight Cable: drag chain use, PUR, halogen-free, unshielded, 15 m	DSL-1205-G15MC	6038956
Alignment aids			
	Laser alignment aid for various sensors, laser class 2 (IEC 60825): Never look into the beam.	AR60	1015741
	Adapter AR60 for deTec4, deTec2 and MLG-2	Adapter AR60, deTec, MLG-2	4070854
Test and monitoring tools			
	30 mm diameter	Test rod 30 mm	2022602

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