

C4P-SA16510A00

deTec

SAFETY LIGHT CURTAINS



Illustration may differ

Ordering information

deTec4 Prime

Resolution	Scanning range	Protective field height	System part	Туре	Part no.
14 mm	20 m	1,650 mm	Sender	C4P- SA16510A00	1215293

The system plug has to be ordered separately. For details, see "Accessories".

Other models and accessories → www.sick.com/deTec



Detailed technical data

Features

Application	Normal industrial environment
System part	Sender
Resolution	14 mm
Scanning range	20 m
Protective field height	1,650 mm
No blind zones	Yes
Synchronization	Optical synchronisation
Integrated laser alignment aid	✓
Items supplied	Sender

Safety-related parameters

Carety related parameters	
Туре	Type 4 (IEC 61496-1)
Safety integrity level	SIL3 (IEC 61508) SILCL3 (IEC 62061)
Category	Category 4 (ISO 13849-1)
Performance level	PL e (ISO 13849-1)
$\ensuremath{PFH_D}$ (mean probability of a dangerous failure per hour)	
Single device	9.6 x 10 ⁻⁹
Cascade with one guest	1.9×10^{-8}
Cascade with two guest devices	2.9×10^{-8}
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.

Functions

Protective operation	J.
Automatic calibration of the protective field width	✓
Beam coding	√

Interfaces

System connection	Depending on system plug (M12 male connector, 5-pin or 8-pin)
Configuration method	DIP switch on system plug
Display elements	LEDs
Fieldbus, industrial network	
Integration via Flexi Soft safety controller	CANopen ¹⁾ DeviceNet™ EtherCAT® EtherNet/IP™ Modbus TCP PROFIBUS DP PROFINET

 $^{^{1)}}$ For additional information on Flexi Soft -> www.sick.com/Flexi_Soft.

Electrical data

Protection class	III (IEC 61140)
Supply voltage V_S	24 V DC (19.2 V 28.8 V)
Ripple	≤ 10 %
Power consumption typical	2.2 W (DC)

Mechanical data

Dimensions	See dimensional drawing
Housing material	Aluminum extruded profile

Ambient data

Enclosure rating	IP65 (IEC 60529) IP67 (IEC 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 (IEC 60068-2-6)
Shock resistance	10 g, 16 ms (IEC 60068-2-27)

Other information

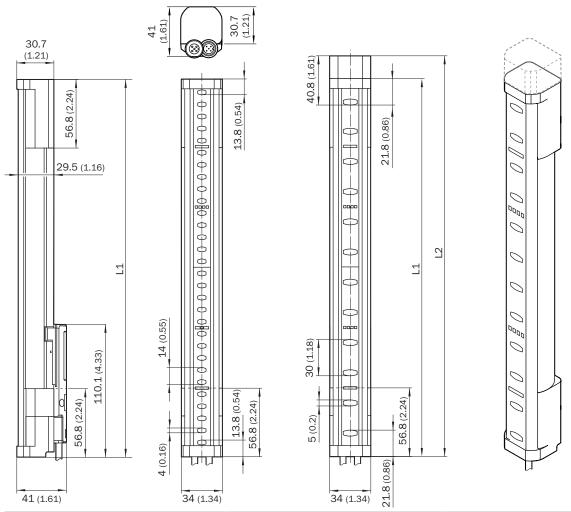
Wave length	850 nm
Type of light	Near-infrared (NIR), invisible
Integrated laser alignment aid	✓
Laser class	1
Wave length	650 nm
Type of light	Visible red light

Classifications

ECI@ss 5.0	27272704
ECI@ss 5.1.4	27272704
ECI@ss 6.0	27272704
ECI@ss 6.2	27272704
ECI@ss 7.0	27272704

ECI@ss 8.0	27272704
ECI@ss 8.1	27272704
ECI@ss 9.0	27272704
ECI@ss 10.0	27272704
ECI@ss 11.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
UNSPSC 16.0901	46171620

Dimensional drawing (Dimensions in mm (inch))



Protective field height	L1	L2
300 (11.81)	313 (12.32)	332 (13.07)
450 (17.72)	463 (18.23)	482 (18.98)
600 (23.62)	613 (24.13)	632 (24.88)
750 (29.53)	763 (30.04)	782 (30.79)

Protective field height	L1	L2
900 (35.43)	913 (35.94)	932 (36.69)
1,050 (41.34)	1,063 (41.85)	1,082 (42.6)
1,200 (47.24)	1,213 (47.75)	1,232 (48.5)
1,350 (53.15)	1,362 (53.62)	1,381 (54.37)
1,500 (59.06)	1,512 (59.53)	1,531 (60.28)
1,650 (64.96)	1,662 (65.43)	1,681 (66.18)
1,800 (70.87)	1,812 (71.34)	1,831 (72.09)
1,950 (76.77)	1,962 (77.24)	1,981 (77.99)
2,100 (82.68)	2,112 (83.15)	2,131 (83.9)

Recommended accessories

Other models and accessories → www.sick.com/deTec

	Brief description	Description	Туре	Part no.			
Terminal and alignment brackets							
GAR	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned \pm 15°, including M5 screw, plastic	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned \pm 15°, including M5 screw, plastic	BEF-1SHABPKU4	2066614			
A. A	4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic	4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic	BEF-3SHABPKU4	2098710			
Others							
E to	deTec deTec system plug	deTec deTec system plug	1000	2076832			
			1100	2076833			
E to			1200	2076834			
			1300	2076835			
A SEX A	IO-Link connector	IO-Link connector	IO-Link connector	2092757			
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V $/$ 1A	IOLA2US-01101 (SiLink2 Master)	1061790			
	SIG200-0A0412200	SIG200-0A0412200	SIG200-0A0412200	1089794			

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	Brief description	Description	Туре	Part no.		
	SIG200-0A0G12200	SIG200-0A0G12200	SIG200-0A0G12200	1102605		
Distributors						
	Head A: female connector, M12, 5-pin, A-coded Head B: male connector, M12, 5-pin, A-coded 5-pin	Head A: female connector, M12, 5-pin, A-coded Head B: male connector, M12, 5-pin, A-coded 5-pin	DSC-1205T000025KM0	6030664		
	Head A: female connector, M12, 8-pin, A-coded Head B: female connector, M12, 8-pin, A-coded 8-pin	Head A: female connector, M12, 8-pin, A-coded Head B: female connector, M12, 8-pin, A-coded 8-pin	DSC-1208T000025KM0	6058647		
Plug connectors and cables						
1	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halo- gen-free, unshielded, 2 m	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halo- gen-free, unshielded, 2 m	YF2A18-020UA5XLEAX	2095652		

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