

**C4P-SA06010A00**

deTec

**SAFETY LIGHT CURTAINS**

**SICK**  
Sensor Intelligence.

Illustration may differ

## Ordering information

## deTec4 Prime

Resolution	Scanning range	Protective field height	System part	Type	Part no.
14 mm	20 m	600 mm	Sender	C4P-SA06010A00	1215279

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

Other models and accessories → [www.sick.com/deTec](http://www.sick.com/deTec)

## Detailed technical data

## Features

<b>Application</b>	Normal industrial environment
<b>System part</b>	Sender
<b>Resolution</b>	14 mm
<b>Scanning range</b>	20 m
<b>Protective field height</b>	600 mm
<b>No blind zones</b>	Yes
<b>Synchronization</b>	Optical synchronisation
<b>Integrated laser alignment aid</b>	✓
<b>Items supplied</b>	Sender

## Safety-related parameters

<b>Type</b>	Type 4 (IEC 61496-1)	
<b>Safety integrity level</b>	SIL3 (IEC 61508) SILCL3 (IEC 62061)	
<b>Category</b>	Category 4 (ISO 13849-1)	
<b>Performance level</b>	PL e (ISO 13849-1)	
<b>PFH<sub>D</sub> (mean probability of a dangerous failure per hour)</b>		
Single device	9.6 x 10 <sup>-9</sup>	
Cascade with one guest	1.9 x 10 <sup>-8</sup>	
Cascade with two guest devices	2.9 x 10 <sup>-8</sup>	
<b>T<sub>M</sub> (mission time)</b>	20 years (ISO 13849-1)	
<b>Safe state in the event of a fault</b>	At least one OSSD is in the OFF state.	

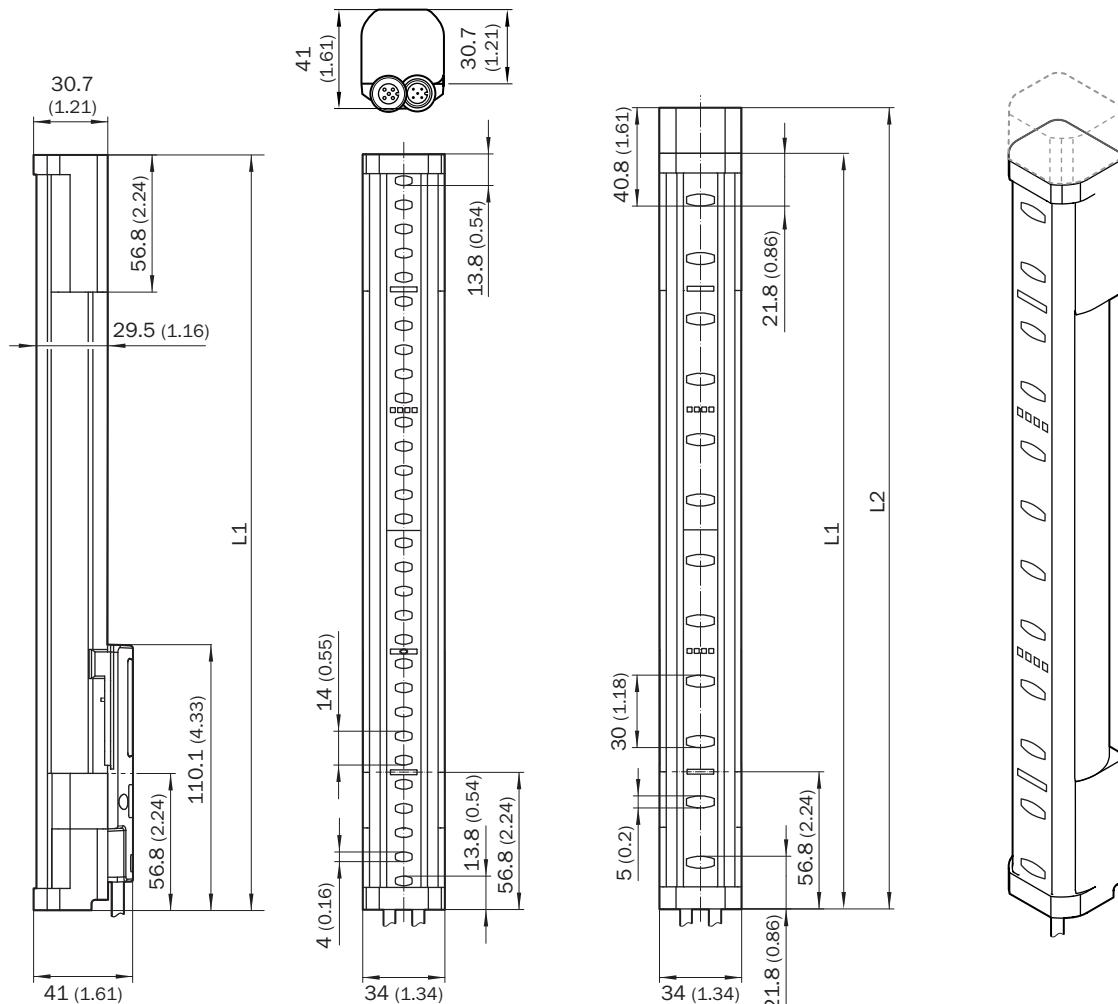
## Functions

<b>Protective operation</b>	✓
<b>Automatic calibration of the protective field width</b>	✓
<b>Beam coding</b>	✓

<b>Cascading</b>	✓
Interfaces	
<b>System connection</b>	Depending on system plug (M12 male connector, 5-pin or 8-pin)
<b>Configuration method</b>	DIP switch on system plug
<b>Display elements</b>	LEDs
<b>Fieldbus, industrial network</b>	
Integration via Flexi Soft safety controller	CANopen <sup>1)</sup> DeviceNet™ EtherCAT® EtherNet/IP™ Modbus TCP PROFIBUS DP PROFINET
1) For additional information on Flexi Soft -> <a href="http://www.sick.com/Flexi_Soft">www.sick.com/Flexi_Soft</a> .	
Electrical data	
<b>Protection class</b>	III (IEC 61140)
<b>Supply voltage <math>V_s</math></b>	24 V DC (19.2 V ... 28.8 V)
<b>Ripple</b>	≤ 10 %
<b>Power consumption typical</b>	1.6 W (DC)
Mechanical data	
<b>Dimensions</b>	See dimensional drawing
<b>Housing material</b>	Aluminum extruded profile
Ambient data	
<b>Enclosure rating</b>	IP65 (IEC 60529) IP67 (IEC 60529)
<b>Ambient operating temperature</b>	-30 °C ... +55 °C
<b>Storage temperature</b>	-30 °C ... +70 °C
<b>Air humidity</b>	15 % ... 95 %, Non-condensing
<b>Vibration resistance</b>	5 g, 10 Hz ... 55 Hz (IEC 60068-2-6)
<b>Shock resistance</b>	10 g, 16 ms (IEC 60068-2-27)
Other information	
<b>Wave length</b>	850 nm
<b>Type of light</b>	Near-infrared (NIR), invisible
<b>Integrated laser alignment aid</b>	✓
Laser class	1
Wave length	650 nm
Type of light	Visible red light
Classifications	
<b>ECI@ss 5.0</b>	27272704
<b>ECI@ss 5.1.4</b>	27272704
<b>ECI@ss 6.0</b>	27272704
<b>ECI@ss 6.2</b>	27272704
<b>ECI@ss 7.0</b>	27272704

<b>ECI@ss 8.0</b>	27272704
<b>ECI@ss 8.1</b>	27272704
<b>ECI@ss 9.0</b>	27272704
<b>ECI@ss 10.0</b>	27272704
<b>ECI@ss 11.0</b>	27272704
<b>ETIM 5.0</b>	EC002549
<b>ETIM 6.0</b>	EC002549
<b>ETIM 7.0</b>	EC002549
<b>UNSPSC 16.0901</b>	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](http://www.sick.com/deTec)

	Brief description	Description	Type	Part no.
<b>Terminal and alignment brackets</b>				
	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned $\pm 15^\circ$ , including M5 screw, plastic	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned $\pm 15^\circ$ , including M5 screw, plastic	BEF-1SHABPKU4	2066614
	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
<b>Others</b>				
	deTec deTec system plug	deTec deTec system plug	1000	2076832
			1100	2076833
			1200	2076834
			1300	2076835
	Connector for connecting an IO-Link master and up to 2 muting sensors to a safety light curtain or a multiple light beam safety device	Connector for connecting an IO-Link master and up to 2 muting sensors to a safety light curtain or a multiple light beam safety device	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

	<b>Brief description</b>	<b>Description</b>	<b>Type</b>	<b>Part no.</b>
	SIG200-0A0G12200	SIG200-0A0G12200	SIG200-0A0G12200	1102605
<b>Distributors</b>				
	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
<b>Plug connectors and cables</b>				
	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A18-020UA5XLEAX	2095652

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**For us, that is "Sensor Intelligence."**

## WORLDWIDE PRESENCE:

Contacts and other locations [www.sick.com](http://www.sick.com)