

## C4P-SX13511C00 deTec

SICK Sensor Intelligence.

**SAFETY LIGHT CURTAINS** 

#### C4P-SX13511C00 | deTec

SAFETY LIGHT CURTAINS



#### Ordering information

Note	Resolution	Scanning range	Protective field height	System part	Туре	Part no.
The system plug has to be ordered separate- ly. For de- tails, see "Ac- cessories".	14 mm	2.5 m	1,350 mm	Sender	C4P- SX13511C00	1108871

#### Illustration may differ



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

Other models and accessories -> www.sick.com/deTec

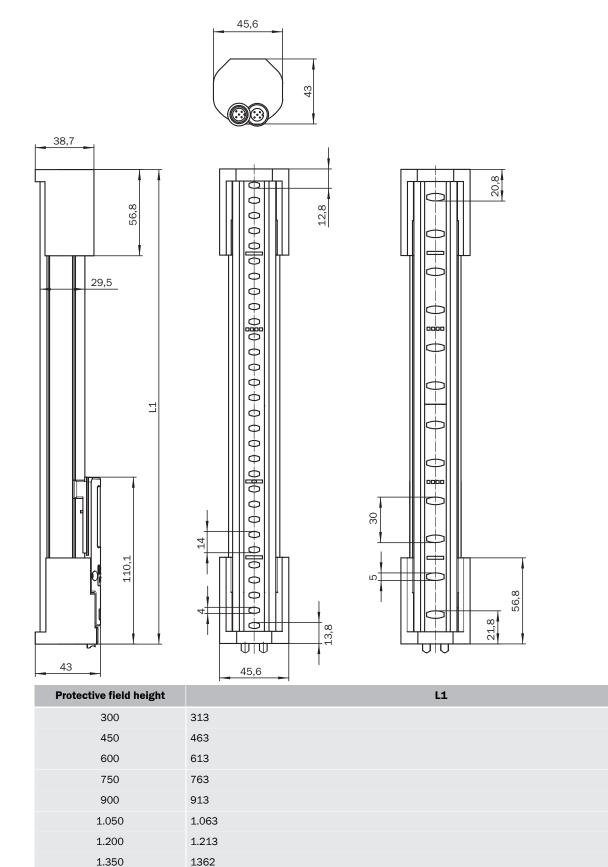
#### Detailed technical data

Features	
Sub product family	deTec4 Ex II 3GD
Application	Explosive areas
Ex-approvals	ATEX for gas: II 3G Ex ec op is IIC T4 Gc ATEX for dust: II 3D Ex tc IIIC T135 °C Dc
System part	Sender
Resolution	14 mm
Scanning range	2.5 m
Protective field height	1,350 mm
No blind zones	Yes
Synchronization	Optical synchronisation
Integrated laser alignment aid	1
Items supplied	Sender
Safety-related parameters	
Туре	Type 4 (IEC 61496-1)
Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (ISO 13849-1)
Performance level	PL e (ISO 13849-1)
$\ensuremath{PFH}\xspace_{D}$ (mean probability of a dangerous failure per hour)	
Single system (standalone)	15.3 x 10 <sup>-9</sup>
Cascade with one guest	30.5 x 10 <sup>-9</sup>
Cascade with two guest devices	45.6 x 10 <sup>-9</sup>

T <sub>M</sub> (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			
Automatic calibration of the protective field width	✓		
Beam coding	4		
Cascading	√		
Smart presence detection	1		
Sender with reduced scanning range	✓		
Interfaces			
System connection	Depending on system plug (M12 male connector, 5-pin or 8-pin)		
Extension connection	Depending on system plug (without extension connection or with M12 female connector, 5-pin)		
Configuration method	DIP switch on system plug		
Display elements	LEDs		
Electrical data			
Protection class	III (IEC 61140)		
Supply voltage V <sub>S</sub>	24 V DC (19.2 V 28.8 V)		
Ripple	≤ 10 %		
Power consumption typical	2.03 W (DC)		
Mechanical data			
Dimensions	See dimensional drawing		
Housing material	Aluminum extruded profile		
Ambient data			
Enclosure rating	IP65 (IEC 60529)		
Ambient operating temperature	0 °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			
ECLASS 5.0	27272704		
ECLASS 5.1.4	27272704		

ECLASS 6.0	27272704
ECLASS 6.2	27272704
ECLASS 7.0	27272704
ECLASS 8.0	27272704
ECLASS 8.1	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704
ECLASS 12.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	46171620

Dimensional drawing (Dimensions in mm (inch))



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Protective field height	L1
1.500	1.512
1.650	1.662
1.800	1.812
1.950	1.962
2.100	2.112

#### Recommended accessories

Other models and accessories -> www.sick.com/deTec

	Brief description	Туре	Part no.	
Connection modules				
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A $$	IOLA2US-01101 (SiLink2 Master)	1061790	
	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	
	Connector for connecting 2 muting sensors and a muting lamp to a safety light curtain or a multiple light beam safety device	Muting connector	2092758	
Alignment aid	S			
Ŵ	Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!, 19 mm x 67.3 mm x 66.9 mm	AR60	1015741	
Muting access	sories			
	Sensor bracket G6 and P250	BEF-2KHAAAKU1	2113145	
Â	Universal holder for round steel arms and muting arms, for mounting sensors or reflec- tors	BEF-KHS-N01	2044953	
	Muting arm bracket	Muting arm bracket	2106455	
	Muting arm, long	Muting arm, long	2111923	
	Muting arm, short	Muting arm, short	2111924	
Test and monitoring tools				
4	14 mm diameter, 250 mm length	Test rod 14 mm	2022599	
	24 mm diameter, 250 mm length	Test rod 24 mm	2045592	
	34 mm diameter, 250 mm length	Test rod 34 mm	2045593	

	Brief description	Туре	Part no.
Distributors			
ð.,	<ul> <li>Connection type head A: Female connector, M12, 5-pin, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, A-coded</li> <li>Connection type head C: Female connector, M12, 5-pin, A-coded</li> <li>Description: T-piece for simultaneous connection to sender and receiver, splits the cable from the control cabinet to the sender and receiver</li> <li>Note: 5-pin</li> </ul>	DSC-1205T000025KM0	6030664
ð.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, A-coded</li> <li>Connection type head B: Female connector, M12, 8-pin, A-coded</li> <li>Connection type head C: Male connector, M12, 8-pin, A-coded</li> <li>Description: T-distributor for simultaneous connection to sender and receiver, splits the cable from the control cabinet between the sender and receiver</li> <li>Note: 8-pin</li> </ul>	DSC-1208T000025KM0	6058647
Reflectors			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812
Terminal and	alignment brackets		
R.S.	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned $\pm$ 15 °, including M5 screw, plastic	BEF-1SHABPKU4	2066614
198	4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic	BEF-3SHABPKU4	2098710
100	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-020UB5M2A15	2096009
100	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-050UB5M2A15	2096010
100	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-100UB5M2A15	2096011
to to	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A18-020UA5M2A18	2096033
k. k.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A18-050UA5M2A18	2096034

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	Brief description	Туре	Part no.
1. N.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A18-100UA5M2A18	2096035
<b>N</b> O	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-020UB5XLEAX	2095617
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-050UB5XLEAX	2095618
×.	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-100UB5XLEAX	2095619
×.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A18-050UA5XLEAX	2095653
×.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A18-100UA5XLEAX	2095654
×.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A18-020UA5XLEAX	2095652
Photoelectric	c sensors		
	GL10-P4151	GL10-P4151	1069860
	GL6-P0211S49	GL6-P0211S49	1070568
	GTB10-P4411S01	GTB10-P4411S01	1066852
	GTB6-P7441S56	GTB6-P7441S56	1077541
Safety switch	ning amplifier		
	<ul> <li>Applications: Output expansion module for OSSDs</li> <li>Compatible sensor types: Safety sensors with OSSDs</li> <li>Connection type: Front connector with spring terminals</li> <li>Restart interlock: no</li> <li>External device monitoring (EDM): Via path</li> <li>Outputs: 2 enabling current paths (safe), 1 feedback current path (for use as exter-</li> </ul>	RLY3-OSSD100	1085343

• **Outputs:** 2 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe)

	Brief description	Туре	Part no.
	<ul> <li>Applications: Output expansion module for OSSDs</li> <li>Compatible sensor types: Safety sensors with OSSDs</li> <li>Connection type: Front connector with spring terminals</li> <li>Restart interlock: no</li> <li>External device monitoring (EDM): Via path</li> <li>Outputs: 4 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe), 1 signaling current path (not safe)</li> <li>Housing width: 28 mm</li> </ul>	RLY3-OSSD400	1099971
SP1 system pl	lug		
	<ul> <li>System plug: SP1</li> <li>Connection type: Male connector M12, 5-pin</li> <li>Extension connection: -</li> </ul>	1000	2076832
	<ul> <li>System plug: SP1</li> <li>Connection type: Male connector M12, 5-pin</li> <li>Extension connection: Female connector M12, 5-pin</li> </ul>	1100	2076833
	<ul> <li>System plug: SP1</li> <li>Connection type: Male connector M12, 8-pin</li> <li>Extension connection: -</li> </ul>	1200	2076834
	<ul> <li>System plug: SP1</li> <li>Connection type: Male connector M12, 8-pin</li> <li>Extension connection: Female connector M12, 5-pin</li> </ul>	1300	2076835
Sensor Integra	ation Gateway		
Jerrent	<ul> <li>Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions</li> <li>Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A)</li> <li>Logic editor: yes</li> <li>Communication interface: IO-Link, USB, Ethernet, PROFINET, REST API</li> <li>Product category: IO-Link Master</li> </ul>	SIG200-0A0412200	1089794
	<ul> <li>Description: The SIG200 Sensor Integration Gateway is an IO-Link master with 4 configurable ports through which the IO-Link devices or standard inputs or stan- dard outputs can be connected to a PLC or cloud application using the REST API.</li> <li>Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions</li> <li>Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A)</li> <li>Logic editor: yes</li> <li>Communication interface: IO-Link, USB, Ethernet, EtherNet/IP™, REST API</li> <li>Product category: IO-Link Master</li> </ul>	SIG200-0A0512200	1089796
1	<ul> <li>Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions</li> <li>Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A)</li> <li>Logic editor: yes</li> <li>Communication interface: IO-Link, USB, Ethernet, REST API</li> <li>Product category: IO-Link Master</li> </ul>	SIG200-0A0G12200	1102605

### 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



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