

SICK Sensor Intelligence.

SAFETY LIGHT CURTAINS

SAFETY LIGHT CURTAINS



Ordering information

Note	Resolution	Scanning range	Protective field height	System part	Туре	Part no.
The system plug has to be ordered separately. For details, see "Acces- sories"., The system plug has to be or- dered sepa- rately. For de- tails, see "Ac- cessories".	14 mm	20 m	1,200 mm	Sender	C4P- SX12011A00	1137300

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	20 m
Protective field height	1,200 mm
No blind zones	Yes
Synchronization	Optical synchronisation
Integrated laser alignment aid	✓
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)

C4P-SX12011A00 | deTec SAFETY LIGHT CURTAINS

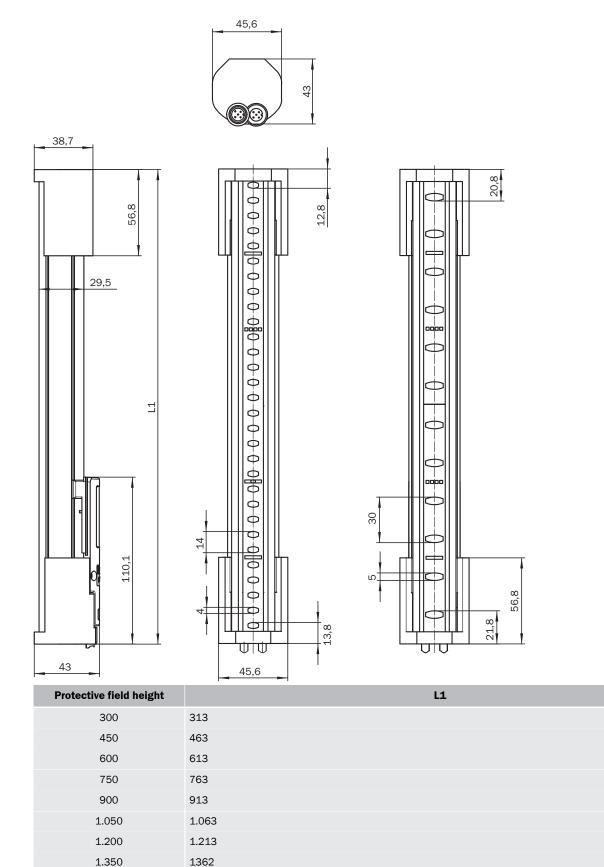
ure privationis a stand and and and and and and and and and		
Cascade with one guest 6.05 x 10 ⁻⁹ Cascade with two guest devices 6.05 x 10 ⁻⁹ Tay (mission time) 20 years (ISO 13849-1) Safe state in the over of a fault At least one OSSD is in the OFF state. FUINCTIONS - Protective operation - Atomatic calibration of the protective filed - Beam coding - Beam coding - Cascade with now guest - State state and the protective filed - State	PFH _D (mean probability of a dangerous fail- ure per hour)	
Cascade with two guesd devia 6.6 × 10 ⁹ Ta (mission time) 20 years (ISO 13849 1.) Safe state in the event of a fault A least one OSSD is in the OFF state. Functions - Functions - Automatic calibration of the protective field - Automatic calibration of the protective field - State means of detation - Display elements Depending on system plug (M12 male connection, Spin or Spi	Single system (standalone)	15.3 x 10 ⁻⁹
Tuninesion time) 20 years (ISO 13849 1) Safe state in the event of a fault A least one OSSD is in the OFF state. Functions - Protective operation - Automatic calibration of the protective field - Same coding - Same coding - Same proceed etection - Same proceed etection - System connection Depending on system plug (without extension connection or with M12 female connector, Spin or S	Cascade with one guest	30.5 x 10 ⁻⁹
Tuninesion time) 20 years (ISO 13849 1) Safe state in the event of a fault A least one OSSD is in the OFF state. Functions - Protective operation - Automatic calibration of the protective field - Same coding - Same roce - Same roce - System connection - System connection Depending on system plug (without extension connection or with M12 female connector, Spin or Spi	Cascade with two guest devices	45.6 x 10 ^{.9}
Aleast one dSSD is in the OFF state. Functions Functions Functions Functions Function of the protect of all	T _M (mission time)	
Protective operation Automatic calibration of the protective field width Automatic calibration of the protective field cascading Automatic calibration of the protective field cascading Automatic calibration of the protective field cascading Automatic calibration of the protective field cascading on system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connect	Safe state in the event of a fault	
Protective operation Automatic calibration of the protective field width Automatic calibration of the protective field cascading Automatic calibration of the protective field cascading Automatic calibration of the protective field cascading Automatic calibration of the protective field cascading on system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connection connection or system plug (W12 male connector, 5-pin or 8-pin) Extension connect	Functions	
width Baan coding Cascading Cascadin	Protective operation	1
Cascading ✓ Smart presence detection ✓ Smart presence detection ✓ System connection Depending on system plug (Without extension connection or with M12 female connector, 5 pin or 8 pin) Extension connection Dip Switch on system plug (without extension connection or with M12 female connector, 5 pin or 8 pin) Configuration method Dip Switch on system plug (without extension connection or with M12 female connector, 5 pin or 8 pin) Configuration method Dip Switch on system plug (without extension connection or with M12 female connector, 5 pin or 8 pin) Configuration method Dip Switch on system plug (without extension connection or with M12 female connector, 5 pin or 8 pin) Configuration method Dip Switch on system plug (without extension connection or with M12 female connector, 5 pin or 8 pin) Configuration method Dip Switch on system plug (without extension connection or with M12 female connector, 5 pin or 8 pin) Stored consent II (EC 61140) Spender consemption typical See dimensional drawing Housing material No 4 WinD(Note consent or 9 pin) Aubient data Pose (EC 60059.2 Storage temperature See fine (EC 60068.2.6?) Alt humidity Sig 1 M z	Automatic calibration of the protective field width	✓
Smart presence detection Image: Content of the second of the	Beam coding	✓
Average detection > 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 or 8 pin) Configuration method DP switch on system plug (without extension connection or with M12 female connector, 5 pin or 8 pin) Display elements LEDs Electrical data III (EC 61140) Supply voltage Vs 44 V DC (19.2 V 28.8 V) Ripple \$ 10 % Power consumption typical 1.94 W (DC) Mechanical data Janum extruded profile Muninum extruded profile Auminum extruded profile Ambient data 1P65 (EC 60529) Ambient operating temperature 0 ° C +55 ° C Storage temperature 0 ° C +55 ° C Storage temperature 0 a (16 ms (EC 60068-26)) Vibration resistance 5 g.10 HZ S5 Hz (EC 60068-26) Stork resistance 10 g.16 ms (EC 60068-27) Cher information Variage (MR), invisible Taper dight Near-infared (NIR), invisible Mave length S50 rm Startere	Cascading	✓
System connection Depending on system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Extension connection Dip witch on system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Configuration method Dip witch on system plug (without extension connection or with M12 female connector, 5-pin or 8-pin) Diplay elements LEDs Electrical data WitCo 1400 Supply voltage Vs 04 VDC (10.2 V 28.8 V) Ripple 10.94 VDC (10.2 V 28.8 V) Power consumption typical 0.94 VDC (10.2 V 28.8 V) Motechanical data See dimensional drawing Motechanical data Vinnum extruded profile Power consumption typical Non Concentration (See Coose) Ambient data See (10.6008 2-27) Ambient operating temperature 5 g.1 0 Hz 55 Hz (IEC 60088 2-6) Air humidity 10 see (10.6008 2-27) Other information So Inn Wave length So Inn Type of light Norinfrared (NIR), invisible Type of light So Inn Markention So Inn	Smart presence detection	1
Etension connection Depending on system plug (without extension connection or with M12 female connectors, plug Onfiguration method Di Pavitch on system plug Display elements Ebe Etertrical data Iff (CE 0140) Supply voltage Vg 4V 0C (19.2 V 28.8 V) Ripple 01940 (CO) Power consumption typical 01940 (CO) Mechanical data VID (0) Power consumption typical Se dimensional drawing Monitor data Se dimensional drawing Monitor data Se dimensional drawing Anbient operating temperature Pois (CE 00529) Anbient operating temperature 01 °	Interfaces	
Configuration method DP switch on system plug Display elements LBC Display elements LBC Electrical data III (EC 61140) Supply voltage Vs 24 V DC (19.2 V 28.8 V) Ripple 510 % Power consumption typical 0.94 W (DC) Mechanical data UVC) Dimensions See dimensional drawing Mousing material Auminum extruded profile Ambient data PS5 (EC 60529) Ambient operating temperature 0° C +55 °C Storage temperature -30 °C +70 °C Arbient operating temperature 5g 10 Hz 55 Hz (EC 60068-2.6) Storage temperature 10 g 16 ms (EC 60068-2.6) Storage temperature 5g 10 Hz 55 Hz (EC 60068-2.6) Other information Storage temperature Other of light Main (IEC 60068-2.27) Other of light Storage temperature Other information Storage temperature Type of light Ausering (IEC 60068-2.27) Mare length Storage temperature Storage temperature Storage temp	System connection	Depending on system plug (M12 male connector, 5-pin or 8-pin)
Display elements EEDs Electrical data III (IEC 61140) Protection class III (IEC 61140) Supply voltage Vs 24 V DC (19.2 V 28.8 V) Ripple 10 % Power consumption typical 64 U DC (19.2 V 28.8 V) Power consumption typical 10 % Power consumption typical 64 U M (DC) Mechanical data See dimensional drawing Motion table Auminum extruded profile Ambient data Pos (IEC 60529) Ambient operating temperature 0 ° C +55 °C Storage temperature 0 s 0 ° C +55 °C Storage temperature 10 g 10 H × 55 Hz (IEC 60068-26) Storage temperature 10 g 10 H × 55 Hz (IEC 60068-26) Storage temperature 10 g 10 H × 55 Hz (IEC 60068-26) Storage temperature 10 g 10 H × 55 Hz (IEC 60068-26) Other information Sto nm Charlend Laser alignment aligneet (AIIR), invisible Maerinfrared (NIR), invisible Type of light Iaser (AIR) Iaser (AIR) Yave length Iaser (AIR) Iaser (AIR) <	Extension connection	Depending on system plug (without extension connection or with M12 female connector, 5-pin)
Electrical data Protection class III (EC 61140) Supply voltage Vs 24 V DC (19.2 V 28.8 V) Alpple 24 V DC (19.2 V 28.8 V) 24 V DC (19.2 V 25.8 VC (10 C 6052) 24 V DC (10 C +55 °C 24 V DC (19.2 V 470 °C 24 V DC (19.2 V 455 Hz (EC 60068-2-6) 25 V DC (19.2 V 455 Hz (EC 60068-2-6) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (EC 60068-2-7) 25 V DC (19.2 V 455 Hz (10 K), INVISIDE 25 V DC (19.2 V 455 Hz (10 K), INVISIDE 25 V DC (19.2 V 455 Hz (10 K), INVISIDE 25 V DC (19.2 V 455 Hz (10 K), INVISIDE 25 V DC (19.2 V 455 Hz (10 K), INVISIDE 25 V DC (19.2 V 455 Hz (10 K),	Configuration method	DIP switch on system plug
Protection class III (IEC 61140) Supply voltage V _s ≤ 4 V DC (19.2 V 28.8 V) Ripple ≤ 10 % Power consumption typical ≤ 10 % Power consumption typical 1.94 W (DC) Mechanical data Mechanical data Musing material 2.222 Autoin une xtruded profile Housing material 4.222 Autoin une xtruded profile Autoin une xtruded profile Autoin extruded profile Autoin ex	Display elements	LEDs
Supply voltage Vs 24 V DC (19.2 V 28.8 V) Ripple <10 % Power consumption typical 0.94 W (DC) Power consumption typical 0.94 W (DC) Mechanical data Dimensions See dimensional drawing Autwinum extruded profile Muminum extruded profile Ambient data Storage temperature 0 °C +55 °C Storage temperature 0 °C +55 °C Arh humidity 10 % (DC 6052.9) Vibration resistance 5 % (DS C052.9) Other information 5 % (DS C052.9) Other information 10 °C +55 °C Other information 5 % (DS C052.9) Other information 5 % (DS C052.9) Other information 5 % (DS C052.9) Vibration resistance 5 % (DS C052.9) Other information 5 % (DS C052.9) Vibration resistance 5 % (DS C052.9) Other information 5 % (DS C052.9) Type of light 60 nm Integrated laser alignment aid Wave length ✓ Mave length 60 nm	Electrical data	
Ripple ≤ 10 % Power consumption typical 1.94 W (DC) Mechanical data Edimensional drawing Dimensions See dimensional drawing Housing material Aluminum extruded profile Ambient data P65 (EC 60529) Ambient operating temperature 0 °C +55 °C Storage temperature -30 °C +70 °C Air humidity 15 % 95 %, Non-condensing Vibration resistance 10 g 16 ms (IEC 60068-2-6) Shock resistance 10 g 16 ms (IEC 60068-2-27) Other information Son m Type of light Kear-infrared (NIR), invisible Integrated laser alignment aid ✓ Mave length Son m	Protection class	III (IEC 61140)
Power consumption typical 1.94 W (DC) Mechanical data See dimensional drawing Dimensions See dimensional drawing Housing material Auminum extruded profile Ambient data Pos (IEC 60529) Ambient operating temperature 0 °C +55 °C Storage temperature -30 °C +70 °C Air humidity 15 % 95 %, Non-condensing Yibration resistance 5g, 10 Hz 55 Hz (IEC 60068-2-6) Shock resistance 10 g, 16 ms (IEC 60068-2-27) Other information Seo nm Yave length Seo nm Type of light Near-infrared (NIR), invisible Integrated laser alignment alignmen	Supply voltage V _S	24 V DC (19.2 V 28.8 V)
Mechanical data Dimensions See dimensional drawing Housing material Aluminum extruded profile Ambient data P65 (EC 60529) Enclosure rating P65 (EC 60529) Ambient operating temperature 0 °C +55 °C Storage temperature -30 °C +70 °C Air humidity 15 % 95 %, Non-condensing Vibration resistance 5g, 10 Hz 55 Hz (IEC 60068-2-6) Shock resistance 10 g, 16 ms (IEC 60068-2-27) Other information So nm Yave length So 10 maint formed (NIR), invisible Integrated laser alignment aid I Wave length So 10 maint	Ripple	≤ 10 %
Dimensions See dimensional drawing Housing material Aluminum extruded profile Ambient data Interface 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 850 nm Wave length Shon Marcan (NIR), invisible Type of light Near-infrared (NIR), invisible Integrated laser alignment aid ✓ Mave length 1 Mave length 50 nm	Power consumption typical	1.94 W (DC)
Housing material Auminum extruded profile Ambient data P65 (ICC 60529) Enclosure rating 0° C +55° C Ambient operating temperature 0° C +70° C Air humidity 50° C +70° C Vibration resistance 5(10 Hz 55 Hz (IEC 60068-26)) Shock resistance 5(10 Hz 55 Hz (IEC 60068-2-27)) Other information 50° nm Vibrate Information 850 nm Type of light Near-infrared (NIR), invisible Integrated laser alignment ali I Mayae length 1 Mayae length 650 nm	Mechanical data	
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 5g, 10 Hz55 Hz (IEC 60068-2-6) Shock resistance 10 g, 16 ms (IEC 60068-2-27) Other information So nm Type of light Near-infrared (NIR), invisible Integrated laser alignment aid Image:	Dimensions	See dimensional drawing
Enclosure ratingIP63 (IEC 60529)Ambient operating temperature0 °C +53 °CStorage temperature-30 °C +70 °CAir humidity-50 °CVibration resistance53 °C +55 Hz (IEC 60068-2-6)Shock resistance0 g 10 Hz 55 Hz (IEC 60068-2-6)Other information	Housing material	Aluminum extruded profile
Ambient operating temperature0 °C+55 °CStorage temperature- 30 °C+70 °CAir humidity50 °C+70 °CVibration resistance55 %Shock resistance5 (3 10 HZ55 HZ (EC 60068-2-67))Other information- 30 °CVave length60 nmType of lightSo nmIntegrated laser alignment align	Ambient data	
Storage temperature-30 °C +70 °CAir humidity53 °C +70 °CVibration resistance55 % 95 %, Non-condensingVibration resistance5g, 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10g, 16 ms (IEC 60068-2-7)Other informationS50 nmType of light850 nmIntegrated laser alignment ali	Enclosure rating	IP65 (IEC 60529)
Air humidity15%95%, Non-condensingAir humidity15%95%, Non-condensingVibration resistance5g, 10 Hz55 Hz (IEC 60068-2-6)Shock resistance10 g, 16 ms (IEC 60068-2-27)Other information850 nmVave length850 nmType of lightNear-infrared (NIR), invisibleIntegrated laser alignment aidIMave length630 nm	Ambient operating temperature	0 °C +55 °C
Vibration resistance 5, 10 Hz55 Hz (EC 60068-2.6) Shock resistance 0, 20 A 00068-2.2) Other information 5, 00 An 0, 00068-2.2) Wave length 50 An 0, 00068-2.2) Type of light Narinfrared (NIR), invisible Integrated laser alignment alignmen	Storage temperature	-30 °C +70 °C
Shock resistance 10 g, 16 ms (IEC 60068-2-27) Other information 50 nm Type of light 850 nm Integrated laser alignment aid • Laser class 1 Wave length 650 nm	Air humidity	15 % 95 %, Non-condensing
Other information Wave length 850 nm Type of light Near-infrared (NIR), invisible Integrated laser alignment aid ✓ Laser class 1 Wave length 650 nm	Vibration resistance	5 g, 10 Hz 55 Hz (IEC 60068-2-6)
Wave length850 nmType of lightNear-infrared (NIR), invisibleIntegrated laser alignment aidImplement of the second secon	Shock resistance	10 g, 16 ms (IEC 60068-2-27)
Type of light Near-infrared (NIR), invisible Integrated laser alignment aid ✓ Laser class 1 Wave length 650 nm	Other information	
Integrated laser alignment ald Image: Comparison of the second of the	Wave length	850 nm
Laser class1Wave length650 nm	Type of light	Near-infrared (NIR), invisible
Wave length 650 nm	Integrated laser alignment aid	4
	Laser class	1
Type of light Visible red light		
	Type of light	Visible red light

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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					
0	Sensor bracket G6 and P250	BEF-2KHAAAKU1	2113145			
	Universal holder for round steel arms and muting arms, for mounting sensors or reflec- tors	BEF-KHS-N01	2044953			
	Muting arm bracket for deTec safety light curtain or deTem safety multibeam sensor	Muting arm bracket	2106455			
	Muting arm, long	Muting arm, long	2111923			
	Muting arm, short	Muting arm, short	2111924			
Test and monitoring tools						
C	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			

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	Brief description	Туре	Part no.
Reflectors			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mount- ing	P250	5304812
Terminal and	alignment brackets		
Red I	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned \pm 15 °, including M5 screw, plastic	BEF-1SHABPKU4	2066614
19	4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic	BEF-3SHABPKU4	2098710
ð.,	 Connection type head A: Female connector, M12, 5-pin, A-coded Connection type head B: Male connector, M12, 5-pin, A-coded Connection type head C: Female connector, M12, 5-pin, A-coded Description: T-piece for simultaneous connection to sender and receiver, splits the cable from the control cabinet to the sender and receiver Note: 5-pin 	DSC- 1205T000025KM0	6030664
ð.	 Connection type head A: Female connector, M12, 8-pin, A-coded Connection type head B: Female connector, M12, 8-pin, A-coded Connection type head C: Male connector, M12, 8-pin, A-coded Description: T-distributor for simultaneous connection to sender and receiver, splits the cable from the control cabinet between the sender and receiver Note: 8-pin 	DSC- 1208T000025KM0	6058647
10 10	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 020UB5M2A15	2096009
100	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 050UB5M2A15	2096010
10 Kg	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 100UB5M2A15	2096011
Ro Ko	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A18- 020UA5M2A18	2096033
E E	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A18- 050UA5M2A18	2096034

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	Brief description	Туре	Part no.
A.A.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 10 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A18- 100UA5M2A18	2096035
1	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 020UB5XLEAX	2095617
1	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 050UB5XLEAX	2095618
1	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 100UB5XLEAX	2095619
×.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A18- 050UA5XLEAX	2095653
×.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A18- 100UA5XLEAX	2095654
×.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A18- 020UA5XLEAX	2095652
Photoelectric	sensors		
	 Sensing range max.: 0.15 m 12 m0.15 m 10 m Functional principle: Photoelectric retro-reflective sensor Functional principle detail: With minimum distance to reflector (dual lens system) Switching output: PNP Switching mode: Light/dark switching Connection type: Male connector M12, 4-pin Light source: PinPoint LED Adjustment: None 	GL10-P4151	1069860
Ĩ	 Sensing range max.: 0.03 m 6 m Functional principle: Photoelectric retro-reflective sensor Connection type: Cable with M12 male connector, 4-pin Type of light: Visible red light Adjustment: Potentiometer Housing: Rectangular 	GL6-P0211S49	1070568

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	Brief description	Туре	Part no.		
	 Sensing range max.: 20 mm 950 mm Functional principle: Photoelectric proximity sensor Functional principle detail: Background suppression Switching output: PNP Switching mode: Light switching Connection type: Male connector M12, 4-pin Light source: PinPoint LED Adjustment: Potentiometer 	GTB10-P4411S01	1066852		
P	 Sensing range max.: 5 mm 500 mm Functional principle: Photoelectric proximity sensor Connection type: Cable with M12 male connector, 4-pin, 300 mm Type of light: Infrared light Adjustment: Potentiometer Housing: Rectangular 	GTB6-P7441S56	1077541		
Safety switchi	ng amplifier				
	 Applications: Output expansion module for OSSDs Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: no External device monitoring (EDM): Via path Outputs: 2 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe) Housing width: 18 mm 	RLY3-OSSD100	1085343		
	 Applications: Output expansion module for OSSDs Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: no External device monitoring (EDM): Via path Outputs: 4 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe), 1 signaling current path (not safe) Housing width: 28 mm 	RLY3-OSSD400	1099971		
SP1 system p	lug				
K	 System plug: SP1 Connection type: Male connector M12, 5-pin Extension connection: - 	SP1-1000	2076832		
	 System plug: SP1 Connection type: Male connector M12, 5-pin Extension connection: Female connector M12, 5-pin 	SP1-1100	2076833		
	 System plug: SP1 Connection type: Male connector M12, 8-pin Extension connection: - 	SP1-1200	2076834		
	 System plug: SP1 Connection type: Male connector M12, 8-pin Extension connection: Female connector M12, 5-pin 	SP1-1300	2076835		
Sensor Integra	Sensor Integration Gateway				
	 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 Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) Logic editor: yes Communication interface: IO-Link, USB, Ethernet, PROFINET, REST API Product category: IO-Link Master 	SIG200-0A0412200	1089794		

SAFETY LIGHT CURTAINS

	Brief description	Туре	Part no.
	 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 standard outputs can be connected to a PLC or cloud application using the REST API. 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 Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) Logic editor: yes Communication interface: IO-Link, USB, Ethernet, EtherNet/IP™, REST API Product category: IO-Link Master 	SIG200-0A0512200	1089796
J	 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 Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) Logic editor: yes Communication interface: IO-Link, USB, Ethernet, REST API Product category: IO-Link Master 	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."

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