

C4P-SA12031AOK deTec

SICK Sensor Intelligence.

SAFETY LIGHT CURTAINS



Illustration may differ

Ordering information

Note	Resolution	Scanning range	Protective field height	System part	Туре	Part no.
Device with KCs cer- tificate for South Korea (Republic of Korea)., The system plug has to be ordered separately. For details, see "Acces- sories"., De- vice with KCs certificate for South Korea (Republic of Korea)., The system plug has to be or- dered sepa- rately. For de- tails, see "Ac- cessories".	30 mm	30 m	1,200 mm	Sender	C4P- SA12031A0K	1131086

Device with KCs certificate for South Korea (Republic of Korea).

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

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



Detailed technical data

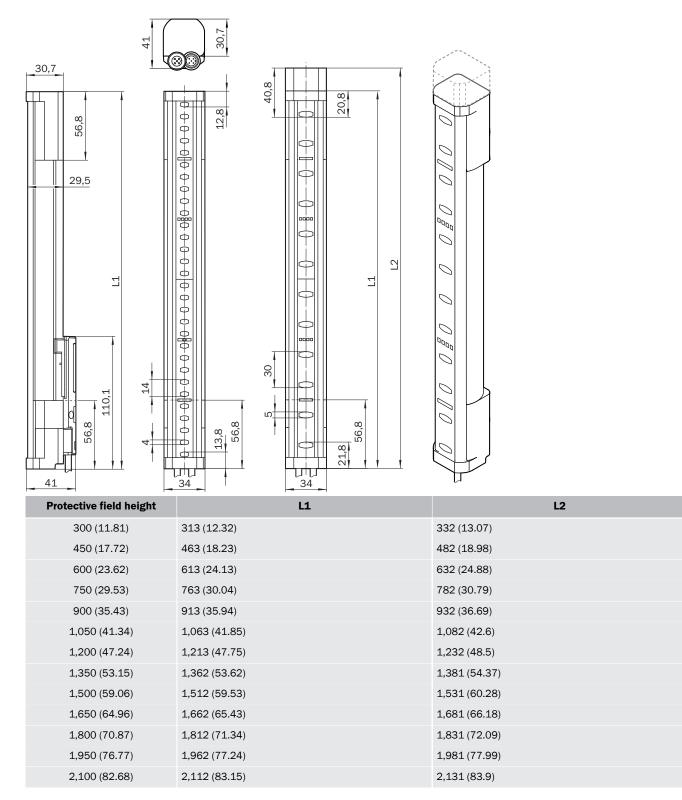
Features

Sub product family	deTec4	
Application	Normal industrial environment	
System part	Sender	
Resolution	30 mm	
Scanning range	30 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)	

Performance level Ptc (SO 13849 1) FtP-(uncen probability of a dangerous fail ure per hour) Single develow Single develow Single develow Cescade with one guest Cescade with one guest develow Single develow Cescade with one guest develow Single develow To descade with one guest develow Single develow To descade with one guest develow Single develow To descade with one guest develow Single develow State state in the event of a fault At least one oBSD is in the OFF state. Functions Protective operation Protective operation 4 Automatic calibration of the protective fills 4 Beam coding 4 Watth Single develow Cescading Depending on system plug (M12 male connector, Spin or Spin	• • •	0 1 4 (00 400 40 4)
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Cascade with one guessSis A 10 °Tay (mission time)Sig vars (SD 13849-1)Sande state in the over of a fautKiest one OSSD is in the OFF state.Functions-Functions-Reamoning (SD 13849-1)Sig (SD 13849-1)Automatic addition of the product of a faut-Automatic addition of the product of sig (SD 13849-1)-Reamoning (SD 13849-1)-Sandong (SD 13849-1)-Automatic addition of the product of sig (SD 13849-1)-Automatic addition of the product of sig (SD 13849-1)-Sandong (SD 13849-1)-Bancong (SD 13849-1)-Sandong (SD	ure per hour)	
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Type 20 years (ISO 13849-1) Safe state in the event of a fault At least one OSSD is in the OFF state. Functions Image: State one OSSD is in the OFF state. Protective operation Image: State one OSSD is in the OFF state. Automatic calibration of the protective fueld Image: State one OSSD is in the OFF state. Beam coding Image: State one OSSD is in the OFF state. Beam coding Image: State one OSSD is in the OFF state. Cascading Image: State one OSSD is in the OFF state. Interfaces Image: State one OSSD is in the OFF state. State one one off on the protective fueld Image: State one OSSD is in the OFF state. Consignation method Depending on system plug (without extension connection or with M12 female connector, 5 pin OS pin) Display elements LEDs Electrical data Image: State one OSSD is in the OFF state. State one one one one one one one with M12 female connector, 5 pin OS pin) Image: State one OSSD is one one one one one one one with M12 female connector, 5 pin OS posso is one	Cascade with one guest	30.5 x 10 ⁻⁹
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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 Vs 24 V DC (19.2 V 28.8 V) Ripple Power consumption typical 168 W (DC) Ripple Power consumption typical See dimensional drawing Auminum extruded profile Ambient data Profection class See dimensional drawing Portection resistance 965 (IEC 60529) Profection class See dimensional drawing Aubient operating temperature -30 °C +55 °C Storage temperature -30 °C +55 °C Storage temperature -30 °C +55 °C Storage temperature -30 °C +70 °C Air humidity 15 % 95 %, Non-condensing Storage temperature -59 cl +55 °C Storage temperature -30 °C +55 °C Storage temperature -30 °C +70 °C Air humidity 15 % 95 %, Non-condensing Storage temperature -59 cl +55 °C Storage temperature -50 °C +55 °C </th <th>Interfaces</th> <th></th>	Interfaces	
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Display elements LEDs Electrical data III (IEC 61140) Supply voltage Vs 44 V DC (19.2 V 28.8 V) Ripple 610 % Power consumption typical 168 V (DC) Mechanical data See dimensional drawing Mosing material Auminum extruded profile Ambient data P65 (IEC 60529) [P67 (IEC 60529) Ambient operating temperature -30 ° C +55 ° C Storage temperature -30 ° C +70 ° C Arhundity 15 % 95 %, Non-condensing Vibration resistance 10 g.1 fms (IEC 60068-2.6) Other information Storage temperature Diver selength Storage temperature Storage temperature 10 g.1 fms (IEC 60068-2.6) Storage temperature 10 g.1 fms (IEC 60068-2.6) Other information Storage temperature Ubration resistance Storage temperature Storage temperature Storage temperature Diver selength Storage temperature Storage temperature Storage temperature Diver selength Storage (IEC 60068-2.27) Dit	Extension connection	Depending on system plug (without extension connection or with M12 female connector, 5-pin)
Electrical data Protection class III (IEC 61140) Supply voltage Vs 24 V DC (19.2 V 28.8 V) Alpple 24 V DC (19.2 V 28.8 V) Alpple 210 % Power consumption typical 210 % Power consumption typical 268 W (DC) Mechanical data Dimensions 268 dimensional drawing 268 dime	Configuration method	DIP switch on system plug
Protection classIII (IEC 61140)Supply voltage Vs24 V DC (19.2 V 28.8 V)Ripple510 %Power consumption typical510 %Power consumption typical68 W (DC)Mechanical dataSee dimensional drawingMunium extruded profile100 minum extruded profileAmbient data965 (IEC 60529) 1967 (IEC 60529)Ambient operating temperature905 °C +55 °CStorage temperature-30 °C +55 °CAir humidity15 % 95 %, Non-condensingVibration resistance5g. (10 Hz 55 Hz (IEC 60068-2-6))Storage temperature10 g. 16 ms (IEC 60068-2-6)Storage temperature5g. 10 Hz 55 Hz (IEC 60068-2-6)Other information850 nmWave length850 nmType of lightNear-infrared (NIR), invisibleType of lightNear-infrared (NIR), invisibleIttgrated laser alignment aidI	Display elements	LEDs
Supply voltage Vs24 V DC (19.2 V 28.8 V)Ripple21 0 %Power consumption typical26 0 W (DC)Mechanical dataSee dimensional drawingDimensionsSee dimensional drawingHousing materialAluminum extruded profileAmbient data	Electrical data	
Ripple≤ 10 %Power consumption typical1.68 W (DC)Mechanical dataSee dimensional drawingDimensionsSee dimensional drawingHousing materialAluminum extruded profileAmbient dataFef (IEC 60529) IP67 (IEC 60529)Ambient operating temperature-30 °C +55 °CStorage temperature-30 °C +70 °CAir humidity15 % 95 %, Non-condensingVibration resistance5g, 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10 g, 16 ms (IEC 60068-2-7)Other informationKear-infrared (NIR), invisibleType of lightRear-infrared (NIR), invisibleIntegrated laser alignment aidI	Protection class	III (IEC 61140)
Power consumption typical 1.68 W (DC) Mechanical data Muensional drawing Dimensions See dimensional drawing Housing material Aluminum extruded profile Ambient data 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 60068-2-6) Other information So nm Yave length So 0 m Type of light Near-infrared (NIR), invisible Itegrated laser alignment aid I	Supply voltage V _S	24 V DC (19.2 V 28.8 V)
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Housing materialAluminum extruded profileAmbient dataEnclosure ratingIP65 (IEC 60529) IP67 (IEC 60529) IP67 (IEC 60529)Ambient operating temperature-30 °C +55 °CStorage temperature-30 °C +70 °CAir humidity15 % 95 %, Non-condensingVibration resistance5 g, 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10 g, 16 ms (IEC 60068-2-27)Other information850 nmYave length850 nmType of lightNear-infrared (NIR), invisibleIntegrated laser alignment aidI	Mechanical data	
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Enclosure ratingIP65 (IEC 60529) IP67 (IEC 60529)Ambient operating temperature-30 °C +55 °CStorage temperature-30 °C +70 °CAir humidity15 % 95 %, Non-condensingVibration resistance5 g, 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10 g, 16 ms (IEC 60068-2-27)Other information850 nmType of lightNear-infrared (NIR), invisibleIntegrated laser alignment aid4	Housing material	Aluminum extruded profile
Ambient operating temperature-30 °C +55 °CStorage temperature-30 °C +70 °CAir humidity15 % 95 %, Non-condensingVibration resistance5 g, 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10 g, 16 ms (IEC 60068-2-27)Other informationS50 nmType of light850 nmIntegrated laser alignment aid	Ambient data	
Storage temperature-30 °C +70 °CAir humidity15 % 95 %, Non-condensingVibration resistance5 g, 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10 g, 16 ms (IEC 60068-2-7)Other information850 nmType of light850 nmIntegrated laser alignment aid·/	Enclosure rating	
Air humidity15%95%, Non-condensingVibration resistance5g, 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10 g, 16 ms (IEC 60068-2-27)Other information850 nmType of light850 nmIntegrated laser alignment aid✓	Ambient operating temperature	–30 °C +55 °C
Vibration resistance5 g, 10 Hz 55 Hz (IEC 60068-2-6) 10 g, 16 ms (IEC 60068-2-27)Shock resistance10 g, 16 ms (IEC 60068-2-27)Other information850 nmType of light850 nmIntegrated laser alignment aidViarinfrared (NIR), invisibleIntegrated laser alignment aidImage: Comparison of the state of th	Storage temperature	-30 °C +70 °C
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Other information Wave length 850 nm Type of light Near-infrared (NIR), invisible Integrated laser alignment aid ✓	Vibration resistance	5 g, 10 Hz 55 Hz (IEC 60068-2-6)
Wave length850 nmType of lightNear-infrared (NIR), invisibleIntegrated laser alignment aid✓	Shock resistance	10 g, 16 ms (IEC 60068-2-27)
Type of light Near-infrared (NIR), invisible Integrated laser alignment aid ✓	Other information	
Integrated laser alignment aid	Wave length	850 nm
	Type of light	Near-infrared (NIR), invisible
Laser class 1	Integrated laser alignment aid	1
	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))



SAFETY LIGHT CURTAINS

Recommended accessories

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

	Brief description	Туре	Part no.
Connection n	nodules		
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A	IOLA2US-01101 (SiLink2 Master)	1061790
a sex a	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
Auting acces	sories		
0	Sensor bracket G6 and P250	BEF-2KHAAAKU1	211314
Â	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	210645
	Muting arm, long	Muting arm, long	211192
	Muting arm, short	Muting arm, short	211192
Reflectors			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mount- ing	P250	530481
erminal and	alignment brackets		
	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned \pm 15 °, including M5 screw, plastic	BEF-1SHABPKU4	206661
1	4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic	BEF-3SHABPKU4	209871
	 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	603066
	 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	605864

	Brief description	Туре	Part no.
N O	 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
No.	 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
N.	 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
10 No.	 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
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: 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 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: 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
1 . 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: 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
6.6	 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

	Brief description	Туре	Part no.	
8.8	 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	
No.	 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	
	 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 switching 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	

	Brief description	Туре	Part no.
SP1 system p	lug		
Re to	 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 Integr	ation Gateway		
J. Same	 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
	 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
0111111	 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.

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