

# 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

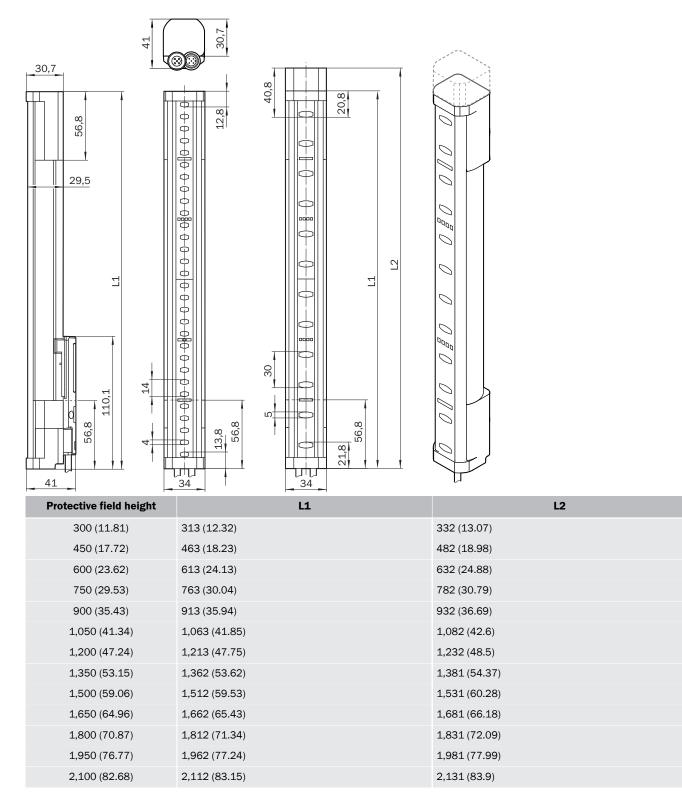
Features

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)
Preprint         Second se	Category	Category 4 (ISO 13849-1)
uncessionstandbackSinglowsSinglowsSinglowsSinglowsSinglowsSinglowsSinglowsSinglowsTrainsionSinglowsSinglo		PL e (ISO 13849-1)
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)	
Cascade with we guest downSist At 0Try (mission time)20 years (S0 13849-1)State tan the over of a faultA least one OSSD is in the OFF state.Functions-Protective operation-Automatic calification of the protective log-Automatic calification of the protective log-Statematic calification of the protective log-Bean coding-Cascading-CascadingDepending on system plug (M12 male connector, 5-pin or 8-pin)Extension connectionDepending on system plug (Without extension connection or with M12 female connector, 5-pin or 8-pin)Extension connectionDepending on system plug (Without extension connection or with M12 female connector, 5-pin or 8-pin)Extension connectionDepending on system plug (Without extension connection or with M12 female connector, 5-pin or 8-pin)Extension connectionDepending on system plug (Without extension connection or with M12 female connector, 5-pin or 8-pin)Extension connectionDepending on system plug (Without extension connection or with M12 female connector, 5-pin or 8-pin)Extension connectionDepending on system plug (Without extension connection or with M12 female connector, 5-pin or 8-pin)Extension connectionDepending on system plug (Without extension connection or with M12 female connector, 5-pin or 8-pin)Extension connectionSet (Set (Set (Set (Set (Set (Set (Set (	Single device	15.3 x 10 <sup>-9</sup>
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 <sup>-9</sup>
Selected in the over of a fault         All eact one OSSD is in the OFF state.           Functions         Image: State	Cascade with two guest devices	45.6 x 10 <sup>-9</sup>
Functions           Protective operation <ul></ul>	T <sub>M</sub> (mission time)	20 years (ISO 13849-1)
Protective operation         I           Automatic calibration of the protective field with with         I           Beam coding         I           Gascading         I           Cascading         I           Cascading         I           Cascading         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)           Configuration method         DP switch 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)           Configuration method         DP switch 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)           Supply oblage Vs         S4 V DC (19.2 V 28.8 V)           Supply oblage Vs         S4 V DC (19.2 V 28.8 V)           Roten consumption typical         S4 W IDC)           Molent adata         Sec dimensional drawing           Configuratin temperature	Safe state in the event of a fault	At least one OSSD is in the OFF state.
Atomatic alibration of the protective fieldBean codingCascadingCascadingDepending on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Extension connectionDepending on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Extension connectionDepending on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Configuration methodDepending on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Extension connectionDIP witch on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Extension connectionDIP witch on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Extension connectionUP witch on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Extension connectionUP witch on system plug (without extension connection or with M12 female connector, 5pin or 8pin)System connectionUP witch on system plug (without extension connection or with M12 female connector, 5pin or 8pin)System connectionUP witch on system plug (without extension connection or with M12 female connector, 5pin or 8pin)Rotector classIII (EC 61140)System consumption typical10 %Molector classSei (Bin (Si Con Spin)Rotector classSei (Bin (Si Con Spin)System consumption typicalSi (Bin (Si Con Spin)Charlen terestoreSi (Bin (Si Con Spin)System consumption typicalSi (Bin (Si Con Spin)Charle	Functions	
widthImage: Constant of the second of the secon	Protective operation	1
Cascading       ✓         Interfaces       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       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         Display elements       LEDs         Electrical data       Voc (19.2 V 28.8 V)         Supply voltage Vs       44 VDC (19.2 V 28.8 V)         Ripple       ≤ 10 %         Power consumption typical       L68 W (DC)         Mechanical data       Uninum extruded profile         Ambient data       Lectococcccccccccccccccccccccccccccccccc		1
Interfaces         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         DIP switch on system plug           Display elements         LEDs           Electrical data         III (EC 61140)           Supply voltage Vs         24 V DC (19.2 V 28.8 V)           Ripple         s 10 %           Power consumption typical         1.68 W (OC)           Mechanical data         Unnum extruded profile           Musing material         Aluminum extruded profile           Ambient operating temperature         -30 ° C +55 ° C           Storage temperature         -30 ° C +55 ° C           Storage temperature         -30 ° C +70 ° C           Arbient operating temperature         5 g. 10 Hz 55 Hz (EC 60068-26)           Storage temperature         5 g. 10 Hz 55 Hz (EC 60068-26)           Storage temperature         5 g. 0 N           Vibration resistance         10 g. 16 ms (IEC 60068-26)           Storage temperature         5 g. 0 N           Vibration resistance         10 g. 16 ms (IEC 60068-27)           Other information         Ston m      <	Beam coding	1
System connectionDepending on system plug (M12 male connector, 5-pin or 8-pin)Extension connectionDepending on system plug (without extension connection or with M12 female connector, 5-pin)Configuration methodDIP switch on system plugDisplay elementsLEDsElectrical dataIII (EC 61140)Supply voltage Vs24 V DC (19.2 V 28.8 V)Ripple< 10 %	Cascading	1
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	
Configuration method         DIP switch on system plug           Display elements         LEDs           Electrical data         III (IEC 61140)           Supply voltage Vs         24 V DC (19.2 V 28.8 V)           Ripple         510 %           Power consumption typical         1.68 W (DC)           Mechanical data         Juminum extruded profile           Muninum extruded profile         Aluminum extruded profile           Ambient data         90° (IEC 60529) IP67 (IEC 60529) IP67 (IEC 60529) IP67 (IEC 60529)           Ambient operating temperature         -30 ° C +55 ° C           Storage temperature         -30 ° C +55 ° C           Ar humidity         15 % 95 %, Non-condensing           Vibration resistance         5 g 10 H z 55 H Z (IEC 60068-2.6)           Shock resistance         10 g 1 6 ms (IEC 60068-2.6)           Wave length         \$50 nm           Type of light         Near-infrared (NIR), invisible           Type of light         Near-infrared (NIR), invisible           Type of light         Near-infrared (NIR), invisible	System connection	Depending on system plug (M12 male connector, 5-pin or 8-pin)
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 <sub>S</sub>	24 V DC (19.2 V 28.8 V)
Mechanical data         See dimensional drawing           Dimensions         See dimensional drawing           Housing material         Aluminum extruded profile           Ambient data         Import See See See See See See See See See Se	Ripple	≤ 10 %
DimensionsSee dimensional drawingHousing 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 resistance5g 10 Hz 55 Hz (IEC 60068-2-6)Shock resistance10g, 16 ms (IEC 60068-2-27)Other informationStorage (NIR), invisibleType of lightSonmIntegrated laser alignment aid	Power consumption typical	1.68 W (DC)
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	
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       5g, 10 Hz 55 Hz (IEC 60068-2-6)         Shock resistance       10 g, 16 ms (IEC 60068-2-27)         Other information       850 nm         Type of light       Near-infrared (NIR), invisible         Integrated laser alignment aid <ul> <li>Image and induction</li> <li>Image and induction</li> <li>Image and induction</li> <li>Image and induction</li> </ul>	Dimensions	See dimensional drawing
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
Shock resistance     10 g, 16 ms (IEC 60068-2-27)       Other information     850 nm       Type of light     Near-infrared (NIR), invisible       Integrated laser alignment aid     ✓	Air humidity	15 % 95 %, Non-condensing
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
	<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	603066
	<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	605864

	Brief description	Туре	Part no.
<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
1	<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
No.	<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
N.	<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
10 No.	<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
10 10	<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
10 10	<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
1 . A . A	<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
6.6	<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

	Brief description	Туре	Part no.	
8.8	<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	
No.	<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	sensors			
	<ul> <li>Sensing range max.: 0.15 m 12 m0.15 m 10 m</li> <li>Functional principle: Photoelectric retro-reflective sensor</li> <li>Functional principle detail: With minimum distance to reflector (dual lens system)</li> <li>Switching output: PNP</li> <li>Switching mode: Light/dark switching</li> <li>Connection type: Male connector M12, 4-pin</li> <li>Light source: PinPoint LED</li> <li>Adjustment: None</li> </ul>	GL10-P4151	1069860	
Ĩ	<ul> <li>Sensing range max.: 0.03 m 6 m</li> <li>Functional principle: Photoelectric retro-reflective sensor</li> <li>Connection type: Cable with M12 male connector, 4-pin</li> <li>Type of light: Visible red light</li> <li>Adjustment: Potentiometer</li> <li>Housing: Rectangular</li> </ul>	GL6-P0211S49	1070568	
	<ul> <li>Sensing range max.: 20 mm 950 mm</li> <li>Functional principle: Photoelectric proximity sensor</li> <li>Functional principle detail: Background suppression</li> <li>Switching output: PNP</li> <li>Switching mode: Light switching</li> <li>Connection type: Male connector M12, 4-pin</li> <li>Light source: PinPoint LED</li> <li>Adjustment: Potentiometer</li> </ul>	GTB10-P4411S01	1066852	
P	<ul> <li>Sensing range max.: 5 mm 500 mm</li> <li>Functional principle: Photoelectric proximity sensor</li> <li>Connection type: Cable with M12 male connector, 4-pin, 300 mm</li> <li>Type of light: Infrared light</li> <li>Adjustment: Potentiometer</li> <li>Housing: Rectangular</li> </ul>	GTB6-P7441S56	1077541	
Safety switching 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 external device monitoring, not safe)</li> <li>Housing width: 18 mm</li> </ul>	RLY3-OSSD100	1085343	
	<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	

	Brief description	Туре	Part no.
SP1 system p	lug		
Re to	<ul> <li>System plug: SP1</li> <li>Connection type: Male connector M12, 5-pin</li> <li>Extension connection: -</li> </ul>	SP1-1000	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>	SP1-1100	2076833
	<ul> <li>System plug: SP1</li> <li>Connection type: Male connector M12, 8-pin</li> <li>Extension connection: -</li> </ul>	SP1-1200	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>	SP1-1300	2076835
Sensor Integr	ation Gateway		
J. Same	<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 standard 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
0111111	<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



Online data sheet

