

M4P-ZA02500C00

deTem

SAFETY MULTIBEAM SENSORS





Ordering information

deTem4 A/P

Scanning range	Number of beams	Beam sep- aration	System part	Туре	Part no.
8 m	2	500 mm	Active unit	M4P- ZA02500C00	1102633

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

Other models and accessories → www.sick.com/deTem



Detailed technical data

Features

Sub product family	deTem4 A/P
Application	Normal industrial environment
Functional principle	Active/passive
System part	Active unit
Scanning range	8 m
Dimension of the light path	
Typical	0.5 m 8 m
Number of beams	2
Beam separation	500 mm
Response time	20 ms
Items supplied	Active unit Safety instruction Mounting instructions Operating instructions for download

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)
$\ensuremath{PFH_D}$ (mean probability of a dangerous failure per hour)	6.6 x 10 ⁻⁹
T _M (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

Note	The deTem4 A/P safety light-beam sensor can be used with different function packages. The function packages are determined by the equipment used.
Function package SP1	Protective operation Beam coding

	Restart interlock External device monitoring (EDM) Application diagnostic output (ADO) IO-Link Equipment: active unit with SP1 system plug
Function package SP2	Function package SP1 included Muting (2-signal muting) Equipment: active unit with SP2 system plug
Function package DMM4	Function package SP2 included Muting (4-signal muting) Operating mode selection Inputs for safety sensors (SDI) Equipment: active unit with SP1 system plug and DMM4 extension module
Beam coding	√
Restart interlock	√
Differentiation between man and material (muting)	√
Concurrence monitoring	√
Monitoring of total muting time	√
Sensor gap monitoring	√
Muting with override	√
Exit monitoring	√
Entry and exit monitoring	√
End of muting by ESPE	✓

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
Alignment aid	Alignment quality via diagnostic LEDs
Application diagnostic output (ADO)	✓
IO-Link	✓
Near Field Communication (NFC)	✓

Electrical data

Protection class	III (IEC 61140) ¹⁾	
Supply voltage V _S	24 V DC (19.2 V DC 28.8 V DC) ²⁾	
Residual ripple	≤ 10 % ³⁾	
Power consumption typical	4 W (DC)	
Output signal switching devices (OSSDs)	2 PNP semiconductors, short-circuit protected, cross-circuit monitored ⁴⁾	
ON state, switching voltage HIGH	24 V DC (V _S – 2.25 V DC V _S)	
OFF state, switching voltage LOW	≤ 2 V DC	
Current-carrying capacity per OSSD	≤ 500 mA	

 $^{^{1)}\,\}mathrm{SELV/PELV}$ safety/protective extra-low voltage.

²⁾ The external voltage supply must be capable of buffering brief mains voltage failures of 20 ms as specified in EN 60204-1. Suitable power supplies are available as accessories from SICK.

 $^{^{3)}}$ Within the limits of V_S.

 $^{^{\}rm 4)}$ Applies to the voltage range between –30 V and +30 V.

Application diagnostic output (ADO)	PNP semiconductor, short-circuit protected ⁴⁾
Output voltage HIGH (active)	≥ V _s - 3 V
Output voltage LOW (deactivated)	High resistance
Current loading	≤ 100 mA

 $^{^{1)}}$ SELV/PELV safety/protective extra-low voltage.

Mechanical data

Dimensions	See dimensional drawing
Housing cross-section	30.7 mm x 34 mm
Material	
Housing	Aluminum extruded profile
Front screen	Polycarbonate, scratch-resistant coating
Weight	550 g (± 50 g)

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	5 g, 10 Hz 55 Hz (IEC 60068-2-6)
Shock resistance	10 g, 16 ms (IEC 60068-2-27)

Other information

Type of light	Near-infrared (NIR), invisible

Classifications

ECLASS 5.0	27272703
ECLASS 5.1.4	27272703
ECLASS 6.0	27272703
ECLASS 6.2	27272703
ECLASS 7.0	27272703
ECLASS 8.0	27272703
ECLASS 8.1	27272703
ECLASS 9.0	27272703
ECLASS 10.0	27272703
ECLASS 11.0	27272703
ECLASS 12.0	27272703
ETIM 5.0	EC001832
ETIM 6.0	EC001832
ETIM 7.0	EC001832
ETIM 8.0	EC001832

²⁾ The external voltage supply must be capable of buffering brief mains voltage failures of 20 ms as specified in EN 60204-1. Suitable power supplies are available as accessories from SICK.

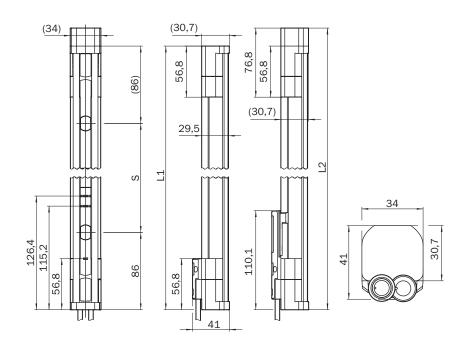
 $^{^{3)}}$ Within the limits of V_S .

 $^{^{4)}}$ Applies to the voltage range between $-30~\mathrm{V}$ and $+30~\mathrm{V}$.

46171620

Dimensional drawing (Dimensions in mm (inch))

Active unit



Number of beams	Beam separation S	L1	L2
2	500	672	692
4	300	1.072	1.092

Recommended accessories

Other models and accessories → www.sick.com/deTem

	Brief description	Туре	Part no.
Connection m	odules		
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V $\!\!/$ 1A	IOLA2US-01101 (SiLink2 Master)	1061790
4 sex 4	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

	Brief description	Туре	Part no.		
Muting accessories					
	Sensor bracket G6 and P250	BEF-2KHAAAKU1	2113145		
G	Universal holder for round steel arms and muting arms, for mounting sensors or reflectors	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		
Reflectors					
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812		
Terminal and	alignment brackets				
(Pa)	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned $\pm15^\circ,$ including M5 screw, plastic	BEF-1SHABPKU4	2066614		
	4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic	BEF-3SHABPKU4	2098710		
	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A15- 050UB5XLEAX	2095618		
	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A15- 100UB5XLEAX	2095619		
A.C.	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A18- 050UA5XLEAX	2095653		

- Connection type head & Female connector, M12, 8-pin, straight, A-coded - Connection type head & Finge place of the Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin, straight, A-coded - Connection type head & Female connector, M12, 5-pin		Brief description	Туре	Part no.
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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Connection type head A: Female connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Connection type head A: Female connector, M12, 5-pin, straight, A-coded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Connection type head B: Pling leads Signal type: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Connection type head B: Pling leads Signal type: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Photoelectric sensors Sensoring actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Photoelectric sensors Sensoring range max: 0.15 m, 12 m0.15 m, 10 m Functional principle: Photoelectric retro-reflective sensor Functional principle: Photoelectric retro-reflective sensor Functional principle: Photoelectric retro-reflective sensor Connection type: Male connector M12, 4-pin Light source: PinPoint LED Adjustment: Potentiometer Housing: Rectangular Sensing range max: 20 mm 950 mm Functional principle: Photoelectric proving sensor Functional principle detail: Background suppression Switching outget: PinPoint LED Switching mode: Light switching Connection	No.	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag 		2095654
Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Senson/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Senson/actuator cable, unshielded Application: Uncontaminated zones, zones with oils and lubricants, Robot, Drag chain operation 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: Senson/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Senson/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Senson/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation Photoelectric sensors Sensing range max:: 0.15 m 12 m 0.15 m 10 m Functional principle: Photoelectric retro-reflective sensor Functional principle: Photoelectric retro-reflective sensor Functional principle: Photoelectric retro-reflective sensor Connection type: Male with M12 male connector, 4-pin Light source: PinPoint LED Adjustment: None 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 Sensing range max:: 20 mm 950 mm Functional principle: Photoelectric proximity sensor Functional principle: Photoelectric proximity	to to	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag 		2096009
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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 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 Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 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 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 Sensing range max: 20 mm 950 mm Functional principle: Photoelectric proximity sensor Functional principle: Photoelectric proximity	66	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag 		2096010
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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 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 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 Sensing range max.: 20 mm 950 mm Functional principle detail: Background suppression Switching output: PNP Switching output: PNP Switching mode: Light switching Connection type: Male connector M12, 4-pin Light source: PinPoint LED Connection type: Male connector M12, 4-pin Light source: PinPoint LED	66	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag 		2096011
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 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 Sensing range max.: 20 mm 950 mm Functional principle: Photoelectric proximity sensor 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	Tro.	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag 		2095652
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 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 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	Photoelectric	sensors		
• 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 • 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		 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 	GL10-P4151	1069860
 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 	P	 Functional principle: Photoelectric retro-reflective sensor Connection type: Cable with M12 male connector, 4-pin Type of light: Visible red light Adjustment: Potentiometer 	GL6-P0211S49	1070568
		 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 	GTB10-P4411S01	1066852

	Brief description	Туре	Part no.	
	 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 switch	ning amplifier			
1	 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	plug			
R. A.	 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	
E No	 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	
SP2 system	olug			
W.	 System plug: SP2 Connection type: Male connector M12, 5-pin Extension connection: Female connector M12, 5-pin 	SP2-2100	2093098	
W. S.	 System plug: SP2 Connection type: Male connector M12, 8-pin Extension connection: Female connector M12, 5-pin 	SP2-2300	2093100	
Sensor Integration Gateway				
40 40 40 40 40 40 40 40 40 40 40 40 40 4	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	

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
 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."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com

