

SICK Sensor Intelligence.

SMALL PHOTOELECTRIC SENSORS

SMALL PHOTOELECTRIC SENSORS



Ordering information

Туре	Part no.
WTB12L-24161820A00	1126347

Other models and accessories -> www.sick.com/W12

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression
Sensing range	
Sensing range min.	15 mm
Sensing range max.	420 mm
Adjustable switching threshold for background suppression	30 mm 420 mm
Reference object	Object with 90% remission factor (complies with standard white according to DIN 5033)
Minimum distance between set sensing range and background (black 6% / white 90%)	4 mm, at a distance of 140 mm
Recommended sensing range for the best per- formance	40 mm 160 mm
Emitted beam	
Light source	Laser
Type of light	Visible red light
Shape of light spot	Ellipse shape
Light spot size (distance)	2.4 mm x 1 mm (160 mm)
Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)	< +/- 1.0° (at Ta = +23 °C)
Key laser figures	
Normative reference	EN 60825-1:2014, IEC 60825-1:2014

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Laser class	1
Wave length	655 nm
Pulse duration	4 µs
Maximum pulse power	< 4.03 mW
Average service life	50,000 h at T _U = +25 °C
Smallest detectable object (MDO) typ.	
	3 mm (at 160 mm distance)
	Object with 90% remission factor (complies with standard white according to DIN 5033)
Adjustment	
Teach-Turn adjustment	BluePilot: For setting the sensing range
IO-Link	For configuring the sensor parameters and Smart Task functions
Indication	
LED blue	BluePilot: sensing range indicator
LED green	Operating indicator
	Static on: power on Flashing: IO-Link mode
LED yellow	Status of received light beam
	Static on: object present Static off: object not present
Special applications	Detecting small objects, Detection of objects moving at high speeds, Detecting perforated objects

Safety-related parameters

MTTFD	280 years
DC _{avg}	0 %
T _M (mission time)	10 years (EN ISO 13849, rate of use: 60 %)

Communication interface

IO-Link	✓, IO-Link V1.1
Data transmission rate	COM2 (38,4 kBaud)
Cycle time	2.3 ms
Process data length	16 Bit
Process data structure	Bit 0 = switching signal Q_{L1} Bit 1 = switching signal Q_{L2} Bit 2 15 = Current receiver level (live)
VendorID	26
DeviceID HEX	0x8002D6
DeviceID DEC	8389334
Compatible master port type	A
SIO mode support	Yes

Electrical data

Supply voltage U _B	10 V DC 30 V DC ¹⁾
Ripple	≤ 5 V

¹⁾ Limit values.

²⁾ Signal transit time with resistive load in switching mode.

³⁾ With light/dark ratio 1:1.

⁴⁾ This switching output must not be connected to another output.

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Usage category	DC-12 (According to EN 60947-5-2) DC-13 (According to EN 60947-5-2)
Current consumption	\leq 14 mA, without load. At U_B = 24 V
Protection class	III
Digital output	
Number	2 (Complementary)
Туре	Push-pull: PNP/NPN
Switching mode	Light/dark switching
Signal voltage PNP HIGH/LOW	Approx. U _B -2.5 V / 0 V
Signal voltage NPN HIGH/LOW	Approx. $U_B / < 2.5 V$
Output current I _{max.}	≤ 100 mA
Circuit protection outputs	Reverse polarity protected Overcurrent protected Short-circuit protected
Response time	≤ 200 µs ²⁾
Repeatability (response time)	85 μs ²⁾
Switching frequency	2,500 Hz ³⁾
Pin/Wire assignment	
BN 1	+ (L+)
WH 2	\bar{Q}_{L1}/MF
	Digital output, dark switching, object present \rightarrow output \bar{Q}_{L1} LOW $^{4)}$ The pin 2 function of the sensor can be configuredAdditional possible settings via IO-Link
BU 3	- (M)
ВК 4	QL1/C
	Digital output, light switching, object present \rightarrow output Q _{L1} HIGHIO-Link communication C ⁴⁾ The pin 4 function of the sensor can be configuredAdditional possible settings via IO-Link

¹⁾ Limit values.

²⁾ Signal transit time with resistive load in switching mode.

³⁾ With light/dark ratio 1:1.

⁴⁾ This switching output must not be connected to another output.

Mechanical data

Housing	Rectangular
Dimensions (W x H x D)	15.6 mm x 49.5 mm x 43.1 mm
Connection	Male connector M12, 4-pin
Material	
Housing	Metal, zinc diecast
Front screen	Plastic, PMMA
Male connector	Plastic, VISTAL®
Weight	Approx. 77 g
Maximum tightening torque of the fixing screws	1.4 Nm

Ambient data

Enclosure rating	IP66 (EN 60529) IP67 (EN 60529)
	IP69 (EN 60529)

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Ambient operating temperature -20 °C +55 °C Ambient temperature, storage -40 °C +70 °C Warm-up time < 15 min, Where T, is under -10 °C Typ, Ambient light immunity Attificial light: ≤ 50,000 k Shock resistance 50 g. 11 ms (25 positive and 25 negative shocks along X, Y, Z axes, 150 total shocks (ENK0068-2-27)) Vibration resistance 50 g. 11 ms (25 positive and 25 negative shocks along X, Y, Z axes, 150 total shocks (ENK0068-2-6)) Air humidity 35 % 95 %, relative humidity (no condensation) Electromagnetic compatibility (EMC) EN 60947-5-2 Resistance to cleaning agent ECOLAB UL File No. NRKH.E181493 & NRKH7.E181493 Smart Task Base logics Logic function Direct ADD OF (along Direct ADD OF (al		
Warm-up function< 15 min, Where T _u is under -10 ° CYp. Ambient light ImmunityArtificial light: \$ 50,000 kSonlight: \$ 50,000 kSonlight: \$ 50,000 kShock resistanceSo 05 g 11 ms (25 positive and 25 negative shocks along X, Y, Z axes, 150 total shocks(EVADODES2-27))Vibration resistanceO 10 Hz 2000 Hz (Amplitude 0.5 mm / 10 g, 20 sweeps per axis, for X, Y, Z axes, 1 oc-taxe/min, (EN60068-2-9))Air humidityB 6 0047-5-2Resistance to cleaning agentE 00LABCOLBUL File No.Smart Task nameD ForetAnDO ReactivatedO ReactivatedNon OF 2 delayO ReactivatedO ReactivatedSwitching frequencySio Logic: 2000 Hz ¹¹ O Logic: 2000 Hz ¹¹ Sio Logic: 200 Hz ¹¹ Sio Logic:	Ambient operating temperature	-20 °C +55 °C
Typ. Ambient light Immunity Artificial light: \$ 50,000 k Sunlight: \$ 50,000 k Shock resistance 50 g, 11 ms (25 positive and 25 negative shocks along X, Y, Z axes, 150 total shocks (ke00068-2-70) Vibration resistance 10 Lm. 2,000 Hz (Amplitude 0.5 mm / 10 g, 20 sweeps per axis, for X, Y, Z axes, 1 oc- tave/min, (EN00068-2-0) Air humidity 35 %95 %, relative humidity (no condensation) Electromagnetic compatibility (EMC) N60947-52 Resistance to cleaning agent EOLAB UL File No. NRKH.E181493 & NRKH7.E181493 Smart Task Base logics Fordir function Direct NoR Name Base logics Itwerter Yes Switching frequency Nol OFF delay ON and OFF delay Response time Silco Ligi: 2000 Hz ²¹ Response time Silco Ligi: 2000 µs ²¹ Response time Silco Ligi: 210 µs ³¹ Switching signal Silching output	Ambient temperature, storage	-40 °C +70 °C
Sunlight: ± 50,000 k Shock resistance 50 g, 11 ms (25 positive and 25 negative shocks along X, Y, Z axes, 150 total shocks (EN60068-2-7)) Vibration resistance Ch V22,000 Hz (Amplitude 0.5 mm / 10 g, 20 sweeps per axis, for X, Y, Z axes, 1 octave/min, (EN60068-2-6)) Air humidity 35 %95 %, relative humidity (no condensation) Electromagnetic compatibility (EMO) EN 60947-5-2 Resistance to cleaning agent ECOLAB UL File No. NRKH.E181493 & NRKH7.E181493 Smart Task Base logics Smart Task name Base logics Logic function Direct Amplitude (no endelay Off delay ON and OFF delay Impuise (no eshot) Inner function Solugis: 2000 Hz ²¹ Switching frequency Sio Logis: 2000 Hz ²¹ Response time Sio Logis: 250 µs ²¹ Response time Sio Logis: 120 µs ^{21/2}) Switching signal Line Switching Sign	Warm-up time	< 15 min, Where T_u is under -10 °C
(EN60068-2-27)) Vibration resistance 10 Hz2.000 Hz (Amplitude 0.5 mm / 10 g, 20 sweeps per axis, for X, Y, Z axes, 1 octave/min, (EN60068-2-6)) Air humidity 35 %95 %, relative humidity (no condensation) Electromagnetic compatibility (EMC) EN 60947-5-2 Resistance to cleaning agent ECOLAB UL File No. NRH.E181493 & NRKH7.E181493 Smart Task Base logics Logic function Direct AND Jone function Direct AND Imer function Deactivated Switch-on delay Off delay ON and OFF delay Impulse (one shot) Inverter Yes Switching frequency Si 0 Logic: 2000 Hz ¹¹ (DI: 1600 Hz ²¹) Response time Si 0 Logic: 250 µs ¹¹ (DI: 300 µs ²) Switching signal Switching signal Si 0 Logic: 120 µs ^{11 2})	Typ. Ambient light immunity	o ,
Air humidity 135 % 95 %, relative humidity (no condensation) Electromagnetic compatibility (EMO) EN 60947-5-2 Resistance to cleaning agent EOCLAB UL File No. NRKH.E181493 & NRKH7.E181493 Smart Task Base logics Smart Task name Base logics Logic function Direct AND OR Timer function Deactivated Switch-on delay Off delay ON and OFF delay (Inpulse (one shot)) Inverter Yes Switching frequency Sio Logic: 2000 Hz ¹⁾ (DL: 1600 Hz ²⁾ Sto Logic: 250 µs ¹⁾ (DL: 300 µs ²⁾ Sio Logic: 250 µs ¹⁾ Repeatability Sio Logic: 120 µs ^{1) 2)} Switching signal Switching signal Switching signal Switching output	Shock resistance	
Electromagnetic compatibility (EMC) EN 60947-5-2 Resistance to cleaning agent ECOLAB UL File No. NRKH.E181493 & NRKH7.E181493 Smart Task Base logics Smart Task name Base logics Logic function Direct AND OR Timer function Deactivated Switch-on delay Off del	Vibration resistance	
Resistance to cleaning agent ECOLAB UL File No. NRKH.E181493 & NRKH7.E181493 Smart Task Base logics Smart Task name Base logics Logic function Direct AND OR Timer function Deactivated Switch-on delay Off delay ON and OFF delay. Impulse (one shot) Inverter Yes Switching frequency Sio Logic: 2000 Hz ¹⁾ IOL: 1600 Hz ²⁾ Response time Sio Logic: 250 µs ¹⁾ IOL: 300 µs ²⁾ Switching signal Sio Logic: 120 µs ^{1) 2)}	Air humidity	35 % 95 %, relative humidity (no condensation)
UL File No. NRKH.E181493 & NRKH7.E181493 Smart Task Base logics Smart Task name Base logics Logic function Direct AND oR Timer function Direct Switch-on delay Off delay NN and OFF delay NN and OFF delay Switching frequency Fasponse time Sol Logic: 2000 Hz ¹⁾ IL: 1600 Hz ²⁾ Repeatability Sol Logic: 200 µs ¹⁾ IL: 200 µs ²⁾ Switching signal Switching signal Switching signal	Electromagnetic compatibility (EMC)	EN 60947-5-2
Smart Task Smart Task name Base logics Logic function Direct AND OR Deactivated Switch-on delay Off delay ON and OFF delay Impulse (one shot) Hoverter Switching frequency Sol Logic: 2000 Hz ¹⁾ IOL: 1600 Hz ²⁾ Sol Logic: 200 μs ¹⁾ IOL: 200 μs ²⁾ Sol Logic: 120 μs ^{1) 2)} Switching signal Switching signal Switching signal	Resistance to cleaning agent	ECOLAB
Smart Task name Base logics Logic function Direct AND Timer function Deactivated Switch-on delay Off delay ON and OFF delay Impulse (one shot) Inverter Yes Switching frequency SIO Logic: 2000 Hz ¹⁾ IOL: 1600 Hz ²⁾ Response time SIO Logic: 250 µs ¹⁾ IOL: 300 µs ²⁾ Repeatability SIO Logic: 120 µs ^{1) 2)} Switching signal Switching signal Switching output	UL File No.	NRKH.E181493 & NRKH7.E181493
Logic functionDirect AND ORTimer functionBeactivated witch-on delay Direct feday Nand OF delay, Nand OF dela	Smart Task	
AND ORTimer functionDeactivated Switch-on delay OFF delay Impulse (one shot)InverterYesSwitching frequencySol Logic: 2000 Hz ¹) IOL: 1600 Hz ²)Response timeSol Logic: 250 µs ¹) IOL: 300 µs ²)RepeatabilitySol Logic: 120 µs ^{1) 2)} Switching signal Switching signal Switching signal Switching signal Switching signalSwitching output	Smart Task name	Base logics
Switch-on delay Off delay N and OFF delay Impulse (one shot)InverterYesSwitching frequencySol Logic: 2000 Hz ¹) Icl: 1600 Hz ²)Response timeSiol Logic: 250 µs ¹) Ol: 300 µs ²)RepeatabilitySol Logic: 120 µs ^{1) 2)} Switching signal Switching signal Switching signalSwitching output	Logic function	AND
Switching frequency Slo Logic: 2000 Hz ¹) Response time Slo Logic: 250 µs ¹) Repeatability Slo Logic: 120 µs ^{1) 2} Switching signal Switching signal QL Switching signal Logic Switching output	Timer function	Switch-on delay Off delay ON and OFF delay
Response time SIO Logic: 250 µs ¹) IOL: 300 µs ²) Repeatability SIO Logic: 120 µs ^{1) 2}) Switching signal Switching signal Switching signal QL1 Switching output	Inverter	Yes
Repeatability SIO Logic: 120 µs ^{1) 2)} Switching signal Switching signal QL1	Switching frequency	
Switching signal Switching signal Q _{L1} Switching output	Response time	
Switching signal Q _{L1} Switching output	Repeatability	SIO Logic: 120 µs ^{1) 2)}
Switching signal \bar{Q}_{L1} Switching output	Switching signal Q _{L1}	

¹⁾ Use of Smart Task functions without IO-Link communication (SIO mode).

 $^{\rm 2)}$ Use of Smart Task functions with IO-Link communication function.

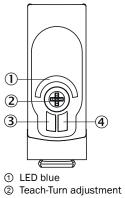
Diagnosis	
Device temperature	
Measuring range	Very cold, cold, moderate, warm, hot
Device status	Yes
Detailed device status	Yes
Operating hour counter	Yes
Operating hours counter with reset function	Yes
Quality of teach	Yes
Classifications	
ECLASS 5.0	27270904
ECLASS 5.1.4	27270904

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ECLASS 6.0	27270904
ECLASS 6.2	27270904
ECLASS 7.0	27270904
ECLASS 8.0	27270904
ECLASS 8.1	27270904
ECLASS 9.0	27270904
ECLASS 10.0	27270904
ECLASS 11.0	27270904
ECLASS 12.0	27270903
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

Adjustments

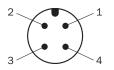
Display and adjustment elements



- ③ LED green
- ④ LED yellow

Connection type

M12 male connector, 4-pin



Truth table

Push-pull: PNP/NPN - light switching Q

	Light switching Q (normally open (upper switch), normally closed (lower switch))		
	Object not present → Output LOW	Object present → Output HIGH	
Light receive		Ø	
Light receive indicator			
Load resistance to L+	A		
Load resistance to M		A	

Push-pull: PNP/NPN – dark switching \bar{Q}

	Dark switching \overline{Q} (normally closed (upper switch), normally open (lower switch))			
	Object not present → Output HIGH	Object present → Output LOW		
Light receive		Ø		
Light receive indicator				
Load resistance to L+		<u>A</u>		
Load resistance to M	A			

Example:

Safe suppression of the background

Black object (6 % remission) Set sensing range x = 140 mm Needed minimum distance to white background y = 4 mm

White background (90 %)

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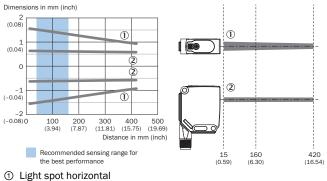
Characteristic curve

Minimum distance in mm (y) between the set sensing range and white background (90 % remission) 40 (1.57) 18%/90 2 30 (1.18) 20 (0.79) 90%/90 3 10 (0.39) 0 ∟ 500 (19.69) 100 (3.94) 200 (7.87) 300 (11.81) 400 (15.75) Distance in mm (inch) Recommended sensing range for the best performance



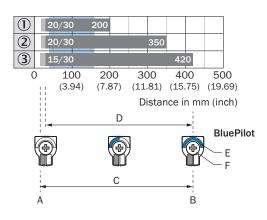
- ② Gray object, 18% remission factor
- ③ White object, 90% remission factor

Light spot size



Light spot vertical

Sensing range diagram



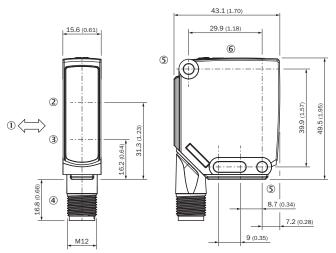
Recommended sensing range for the best performance



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1	Black object, 6% remission factor
2	Gray object, 18% remission factor
3	White object, 90% remission factor
А	Sensing range min. in mm
В	Sensing range max. in mm
С	Field of view
D	Adjustable switching threshold for background suppression
Е	Sensing range indicator
F	Teach-Turn adjustment

Dimensional drawing (Dimensions in mm (inch))



① Standard direction of the material being detected

- ② Center of optical axis, receiver
- ③ Center of optical axis, sender
- ④ Connection
- ⑤ Mounting hole, Ø 4.2 mm
- (6) Display and adjustment elements

Recommended accessories

Other models and accessories → www.sick.com/W12

	Brief description	Туре	Part no.
Universal bar clamp systems			
Contraction of the second s	Plate N03 for universal clamp bracket, zinc coated, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N03	2051609
	Mounting bar, straight, 300 mm, steel, steel, zinc coated, without mounting hardware	BEF-MS12G-B	4056055

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	Brief description	Туре	Part no.	
60	Bar clamp for bar diameter of 12 mm (fixing the mounting rod), Aluminum, 2 screws M6 x 30, 2 spring discs	BEF-RMC-D12	5321878	
Mounting bra	Mounting brackets and plates			
	Mounting bracket, large, stainless steel, mounting hardware included	BEF-WG-W12	2013942	
	BEF-AP-W12	BEF-AP-W12	2127742	
Terminal and	alignment brackets			
V	Clamping block for dovetail mounting, Aluminum (anodised), mounting hardware includ- ed	BEF-KH-W12	2013285	
Others				
N	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 050VB3XLEAX	2096235	
×.	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 050UB3XLEAX	2095608	
1	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 020UB3XLEAX	2095607	
1	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 100UB3XLEAX	2095609	
1	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 150UB3XLEAX	2095610	
1	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 200UB3XLEAX	2095611	
×.	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 250UB3XLEAX	2095615	

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	Brief description	Туре	Part no.
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1.2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 012UB3XLEAX	2095765
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 020UB3XLEAX	2095766
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 050UB3XLEAX	2095767
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 100UB3XLEAX	2095768
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 150UB3XLEAX	2095769
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 200UB3XLEAX	2095770
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 250UB3XLEAX	2095771
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded, LED function display Note: Only suitable for PNP sensors Application: Zones with oils and lubricants, Drag chain operation, Robot 	YI2A14- 020UB3XLEAX	2095836
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded, LED function display Note: Only suitable for PNP sensors Application: Zones with oils and lubricants, Drag chain operation, Robot 	YI2A14- 050UB3XLEAX	2095837

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	Brief description	Туре	Part no.
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded, LED function display Note: Only suitable for PNP sensors Application: Zones with oils and lubricants, Drag chain operation, Robot 	YI2A14- 100UB3XLEAX	2095838
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded, LED function display Note: Only suitable for PNP sensors Application: Zones with oils and lubricants, Drag chain operation, Robot 	YI2A14- 250UB3XLEAX	2095839
No.	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A24- 050UB4XLEAX	2095729
No.	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A24- 100UB4XLEAX	2095730
N	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 020VB3XLEAX	2096234
Sensor Integration Gateway			
	 Further functions: Web server integrated, IIoT interface available (dual talk) Logic editor: no Communication interface: IO-Link, Ethernet, PROFINET, REST API, MQTT, OPC UA Product category: IO-Link Master 	SIG350-0004AP100	6076871

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

