IMC18-12NPPVCOSA71

INDUCTIVE PROXIMITY SENSORS



INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMC18-12NPPVC0SA71	1079297

Included in delivery: BEF-MU-M18N (2)

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



Detailed technical data

Features

Housing	Cylindrical thread design
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S _n	0 mm 12 mm ¹⁾
Safe sensing range S _a	9.72 mm
Number of switching points	Up to 4 adjustable switching points or windows
Switching modes	Single point, Window mode, Two point mode, Visual adjustment indicator
Switching frequency Qint.1 / Qint.2 on Pin2	250 Hz
Installation type	Non-flush
Connection type	Male connector M12, 4-pin ²⁾
Switching output	PNP
Output Q/C	Switching output or IO-Link mode
Output MFC	Switching output or input
Output function	NC / NO
Output characteristic	Programmable
Electrical wiring	DC 4-wire
Enclosure rating	IP68 ³⁾ IP69K ⁴⁾
Special features	Smart Task, Resistant against coolant lubricants, IO-Link
Special applications	Zones with coolants and lubricants, Difficult application conditions

¹⁾ Adjustable.

²⁾ With gold plated contact pins.

³⁾ According to EN 60529.

⁴⁾ According to ISO 20653:2013-03.

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Special characteristic	Resistant against coolant lubricants
Diagnosis	Chip temperature
Pin 2 configuration	External input, Teach-in, switching signal

¹⁾ Adjustable.

²⁾ With gold plated contact pins.

³⁾ According to EN 60529.

⁴⁾ According to ISO 20653:2013-03.

Mechanics/electronics

Supply voltage10 V DC 30 V DC. ¹ Ripple10 V DC 30 V DC. ¹ Ripple10 %Voltage drop2 v 2 ¹ Current consumption35 mA ³ Hysteresisrog namable ⁴ Reproducibility2 5 % ⁵ Temperature drift (of S.)410 %EMCAccording to EN 60947-5:2Continuous current I,2 200 mA ⁶ Short-circuit protection4Powerup pulse protection4Shock and vibration resistance300 g/2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 1Housing materialConstruct Cycle		
Voltage drop $\leq 2 \sqrt{2}^2$ Current consumption35 mA ³ /Hysteresisprogrammable ⁴ /Reproducibility $\leq 5 \%$ ⁵ /Temperature drift (of S,) $\pm 10 \%$ EMCAccording to EN 60947-5-2Continuous current I, $\leq 200 mA$ ⁶ /Short-circuit protection \checkmark Power-up pulse protection \checkmark Power-up pulse protection \checkmark Shock and vibration resistance $100 g/2 ms / 500 cycles; 150 g/1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 ° C + 75 ° CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length3 m mTightening torque, max.Typ. 90 Nm 7)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2s)Li File No.E181493Teach-in accuracy4/3 \% G'SResolution, maximum (area)75 µm (8 mm 10 mm)150 µm (10 mm 2 mm)$	Supply voltage	10 V DC 30 V DC ¹⁾
Current consumption35 mA 30HysteresisProgrammable 40Reproducibility< 5 % 50Temperature drift (of S,)± 10 %EMCAccording to EN 60947-5-2Continuous current I,< 200 mA 60Short-circuit protection✓Reverse polarity protection✓Power-up pulse protection✓Shock and vibration resistance100 g/ 2 m / 500 cycles; 150 g/ 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 ° C +75 ° CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nn 71Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+7.3% of SrResolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (100 mm 12 mm)	Ripple	≤ 10 %
HysteresisProgrammable 4)Reproducibilitys 5 % 9)Reproducibilitys 5 % 9)Temperature drift (of S,)± 10 %EMCAccording to EN 60947-5-2Continuous current Ias 200 mA 6)Short-circuit protection/Reverse polarity protection/Power-up pulse protection/Shock and vibration resistance100 g / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 ° C +75 ° CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPostic, LCPHousing length65 mmTightening torque, max.90 mm 7 ¹ Items suppliedMounting nut, V2A stainless steel, with looking teeth (2x)UL File No.E181493Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (100 mm 28 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (100 mm 28 mm)	Voltage drop	$\leq 2 V^{2}$
ReproducibilitystoreReproducibilitys5 % 5)Temperature drift (of S,)±10 %EMCAccording to EN 60947-5-2Continuous current I,s200 mA 6)Short-circuit protection✓Reverse polarity protection✓Power-up pulse protection✓Shock and vibration resistance100 g/ 2 ms / 500 cycles: 150 g/ 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 °C +75 °CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length65 mmThread length59 mmTightening torque, max.Typ. 90 Nm 7)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy $4/$ -3% of SrResolution, mying (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Current consumption	35 mA ³⁾
Temperature drift (of S,)±10%EMCAccording to EN 60947-5-2Continuous current I,≤200 mA ⁶⁾ Short-circuit protection✓Reverse polarity protection✓Power-up pulse protection✓Shock and vibration resistance00 g/ 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 ° C +75 ° CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPastic, LCPHousing length39 mmTightening torque, max.Typ. 90 Nm ⁷⁾ Ltems suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-In accuracy+/-3% of SrResolution, typical (range) $0 \mu m (0 mm 8 mm)$ $75 \mu m (8 mm 10 mm)$ $150 \mu m (10 mm 12 mm)$	Hysteresis	Programmable ⁴⁾
EMCAccording to EN 60947-5-2Continuous current I,\$ 200 mA ⁶⁾ Short-circuit protection/Reverse polarity protection/Power-up pulse protection/Shock and vibration resistance100 g / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 ° C +75 ° CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPistic, LCPHousing length55 mmTightening torque, max.Typ. 90 Nm ⁷)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+/- 3% of SrResolution, typical (range)75 µm (8 mm 10 mm) 150 µm (10 mm 22 mm)	Reproducibility	< 5 % ⁵⁾
Continuous current I,< 200 mA ⁶)Short-circuit protectionReverse polarity protectionPower-up pulse protectionShock and vibration resistance100 g / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 °C +75 °CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length65 mmTightening torque, max.Typ. 90 Nm ⁷)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+/ 3% of SrResolution, typical (range)04 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Temperature drift (of S _r)	± 10 %
Short-circuit protection Image: Construction Reverse polarity protection Image: Construction Power-up pulse protection Image: Construction Shock and vibration resistance 100 g / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 g Ambient operating temperature -40 ° C +75 ° C Housing material Stainless steel V2A, DIN 1.4305 / AISI 303 Sensing face material Plastic, LCP Housing length 65 mm Thread length 39 mm Tightening torque, max. Typ. 90 Nm ⁷⁾ Items supplied Mounting nut, V2A stainless steel, with locking teeth (2x) UL File No. E181493 Teach-in accuracy +/-3% of Sr Resolution, typical (range) 40 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	EMC	According to EN 60947-5-2
Reverse polarity protectionPower-up pulse protectionShock and vibration resistancelog / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / dogAmbient operating temperature-40 ° C +75 ° CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nm ⁷)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy4/ - 3% of SrResolution, typical (range)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Continuous current l _a	\leq 200 mA ⁶⁾
Power-up pulse protection✓Shock and vibration resistance100 g / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 °C +75 °CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nm ⁷)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+/- 3% of SrResolution, typical (range)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Short-circuit protection	✓
Shock and vibration resistance100 g/ 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 gAmbient operating temperature-40 ° C +75 ° CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nm ⁷⁾ Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+/- 3% of SrResolution, typical (range)04 µm (0 mm 8 mm) 150 µm (10 mm 12 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Reverse polarity protection	✓
60 gAmbient operating temperature-40 °C +75 °CHousing materialStainless steel V2A, DIN 1.4305 / AISI 303Sensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nm ⁷⁾ Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy40 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Power-up pulse protection	✓
Housing materialStainless steel V2A, DIN 1.4305 / AISI 303Bensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nm 7)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy40 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Shock and vibration resistance	
Sensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nm ⁷⁾ Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+/- 3% of SrResolution, typical (range)40 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Ambient operating temperature	-40 °C +75 °C
Housing length65 mmHousing length39 mmTightening torque, max.Typ. 90 Nm ⁷⁾ Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+/- 3% of SrResolution, typical (range)40 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Thread length39 mmTightening torque, max.Typ. 90 Nm 7)Items suppliedMounting nut, V2A stainless steel, with locking teeth (2x)UL File No.E181493Teach-in accuracy+/- 3% of SrResolution, typical (range)40 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)Resolution, maximum (area)75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Sensing face material	Plastic, LCP
Tightening torque, max. Typ. 90 Nm ⁷⁾ Items supplied Mounting nut, V2A stainless steel, with locking teeth (2x) UL File No. E181493 Teach-in accuracy +/- 3% of Sr Resolution, typical (range) 40 µm (0 mm 8 mm) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm) Resolution, maximum (area) 75 µm (8 mm 10 mm) 150 µm (10 mm 12 mm)	Housing length	65 mm
Items supplied Mounting nut, V2A stainless steel, with locking teeth (2x) UL File No. E181493 Teach-in accuracy +/- 3% of Sr Resolution, typical (range) 40 μm (0 mm 8 mm) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm) Resolution, maximum (area) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm)	Thread length	39 mm
UL File No. E181493 Teach-in accuracy +/- 3% of Sr Resolution, typical (range) 40 μm (0 mm 8 mm) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm) Resolution, maximum (area) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm)	Tightening torque, max.	Typ. 90 Nm ⁷⁾
Teach-in accuracy +/- 3% of Sr Resolution, typical (range) 40 μm (0 mm 8 mm) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm) Resolution, maximum (area) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm)	Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)
Resolution, typical (range) 40 μm (0 mm 8 mm) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm) Resolution, maximum (area) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm)	UL File No.	E181493
75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm) Resolution, maximum (area) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm)	Teach-in accuracy	+/- 3% of Sr
150 µm (10 mm 12 mm)	Resolution, typical (range)	75 μm (8 mm 10 mm)
	Resolution, maximum (area)	150 µm (10 mm 12 mm)

 $^{1)}$ IO-Link mode: 18 VDC ... 30 VDC.

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ To comply with EN 60947-5-2, a hysteresis of approx. 10% must be set.

⁵⁾ Ub and Ta constant.

 $^{6)}$ 200 mA total for both switching outputs.

⁷⁾ Valid if toothed side of nut is used.

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Safety-related parameters

MTTF _D	860 years
DC _{avg}	0%
Communication interface	
Communication interface	IO-Link V1.1
Communication Interface detail	COM2 (38,4 kBaud)
Cycle time	5 ms
Process data length	32 Bit
Process data structure	Bit 0 = switching signal Q_{L1} Bit 1 = switching signal Q_{L2} Bit 2 = switching signal Q_{Int3} Bit 3 = switching signal Q_{Int4} Bit 18 31 = counting value
Factory setting	Switching Point 1: reference value 1 Output: normally open Pin 2 configuration: input
Reference values	
Note	Reference value in Digits for switching point in mm stored in the sensor
Reference value 1	12 mm
Reference value 2	10 mm
Reference value 3	8 mm
Reference value 4	5 mm
Reduction factors	
Stainless steel (V2A, 304)	Approx. 0.7
Aluminum (Al)	Approx. 0.4
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.4
Installation note	
Remark	Associated graphic see "Installation"
A	18 mm
В	45 mm
c	18 mm
D	36 mm
E	12 mm
F	96 mm
Smart Task	
Smart Task name	Counter + debouncing
Logic function	Window Hysteresis Direct
Timer function	Deactivated On delay Off delay

1) SIO Logic: Sensor operation in standard I/O mode without IO-Link communication. Sensor-internal logic or timing parameters plus Automation Functions used.

²⁾ IOL: Sensor operation with full IO-Link communication and usage of logic, timing and Automation Function parameters.

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	ON and OFF delay Impulse (one shot)
Inverter	Adjustable
Maximum counting frequency	SIO Logic: 250 Hz $^{1)}$ IOL: 250 Hz $^{2)}$
Counter reset	SIO Logic: 500 μ s ¹⁾ IOL: ²⁾
Min. Time between two process events (switches)	SIO Logic: 2 ms ¹⁾ IOL: 2 ms ²⁾
Debounce time max.	SIO Logic: 30 s $^{(1)}$ IOL: 30 s $^{(2)}$
Switching signal QL1	Output type (dependant on the adjusted threshold)
Switching signal QL2	Output type (dependant on the adjusted threshold)
Measuring value	Counting value

¹⁾ SIO Logic: Sensor operation in standard I/O mode without IO-Link communication. Sensor-internal logic or timing parameters plus Automation Functions used.

²⁾ IOL: Sensor operation with full IO-Link communication and usage of logic, timing and Automation Function parameters.

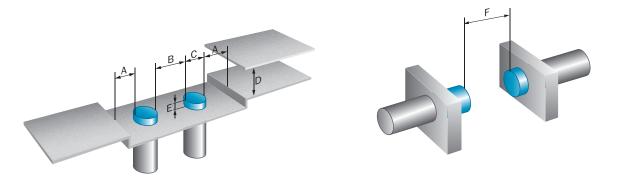
Classifications

ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ECI@ss 10.0	27270101
ECI@ss 11.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
UNSPSC 16.0901	39122230

INDUCTIVE PROXIMITY SENSORS

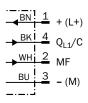
Installation note

Non-flush installation



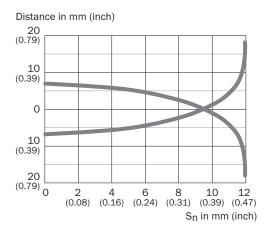
Connection diagram

Cd-367



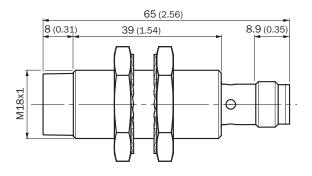
Characteristic curve

Response diagram



Dimensional drawing (Dimensions in mm (inch))

IMC18 Standard, connector M12, non-flush



Recommended accessories

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

	Brief description	Туре	Part no.
Universal bar clamp systems			
60	Plate N06N for universal clamp bracket, M18, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322627), mounting hardware	BEF-KHS-NO6N	2051622
6)	Plate N11N for universal clamp bracket, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322626), mounting hardware	BEF-KHS-N11N	2071081
Mounting brac	kets and plates		
	Mounting plate for M18 sensors, stainless steel, without mounting hardware	BEF-WG-M18N	5320948
40	Mounting bracket for M18 sensors, stainless steel, without mounting hardware	BEF-WN-M18N	5320947
Modules and g	gateways		
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A $$	IOLA2US-01101 (SiLink2 Master)	1061790
	EtherCAT IO-Link Master, IO-Link V1.1, Port Class A, power supply via 7/8" cable 24 V / 8 A, fieldbus connection via M12 cable	IOLG2EC-03208R01 (IO-Link Master)	6053254
12.	EtherNet/IP IO-Link Master, IO-Link V1.1, Port Class A, power supply via 7/8" cable 24 V / 8 A, fieldbus connection via M12-cable	IOLG2EI-03208R01 (IO-Link Master)	6053255
	PROFINET IO-Link Master, IO-Link V1.1, Port Class A, power supply via 7/8" cable 24 V / 8 A, fieldbus connection via M12 cable	IOLG2PN-03208R01 (IO-Link Master)	6053253

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	Brief description	Туре	Part no.
Plug connecto	ors and cables		
~	Head A: female connector, M12, 4-pin, straight Head B: Flying leads Cable: PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DOL-1204-G02MRN	6058291
	Head A: female connector, M12, 4-pin, straight Head B: Flying leads Cable: PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DOL-1204-G05MRN	6058476
a	Head A: female connector, M12, 4-pin, angled with LED Head B: Flying leads Cable: PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2), only suitable for PNP sensors	DOL-1204-L02MRN	6058482
	 Head A: female connector, M12, 4-pin, angled with LED Head B: Flying leads Cable: PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2), only suitable for PNP sensors 	DOL-1204-L05MRN	6058483
A	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DOL-1204-W02MRN	6058474
	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DOL-1204-W05MRN	6058477
	Head A: female connector, M12, 4-pin, angled Head B: male connector, M12, 4-pin, straight Cable: PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DSI-1204-B02MRN	6058502
	Head A: female connector, M12, 4-pin, angled Head B: male connector, M12, 4-pin, straight Cable: PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H202 and CH202. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H202)	DSL-1204-B05MRN	6058503

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	Brief description	Туре	Part no.
	Head A: female connector, M12, 4-pin, straight Head B: male connector, M12, 4-pin, straight Cable: PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DSL-1204-G02MRN	6058499
	Head A: female connector, M12, 4-pin, straight Head B: male connector, M12, 4-pin, straight Cable: PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DSL-1204-G05MRN	6058500

Recommended services

Additional services → www.sick.com/IMC

	Туре	Part no.
Function Block Factory		
• Brief description: The Function Block Factory supports common programmable logic con- trollers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automa- tion and B&R. More information on the FBF can be found <a href="https://fbf.cloud.sick.com<br">target="_blank">here .	Function Block Factory	On request

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

