

IMC18-12NPPVCOSA00

IMC

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IMC18-12NPPVC0SA00	1079295

Included in delivery: BEF-MU-M18N (1)

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

Illustration may differ



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

¹⁾ Adjustable.

²⁾ With gold plated contact pins.

 $^{^{3)}}$ According to EN 60529.

 $^{^{\}rm 4)}$ According to ISO 20653:2013-03.

Special applications	Zones with coolants and lubricants, Difficult application conditions
Special characteristic	Resistant against coolant lubricants
Pin 2 configuration	External input, Teach-in, switching signal
Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)

¹⁾ Adjustable.

Mechanics/electronics

Supply voltage 10 V DC 30 V DC. 10 Ripple ≤ 10 % Voltage drop ≤ 2 V 20 Hysteresis Programmable 30 Reproducibility ≤ 5 % 40 50 Temperature drift (of S₁) ± 10 % EMC According to EN 60947-5-2 Continuous current I₃ ≤ 200 mA 60 Short-circuit protection ✓ Reverse polarity protection ✓ Power-up pulse protection ✓ Shock and vibration resistance 100 g / 2 ms / 500 cycles; 150 g / 1 Mlo 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⁾ UL File No. £181493 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) 150 µm (10 mm 12 mm) 300 µm (10 mm 12 mm)		
Voltage drop ≤ 2 V 2) Hysteresis Programmable 3) Reproducibility ≤ 5 % 4) 5) Temperature drift (of S₁) ± 10 % EMC According to EN 60947-5-2 Continuous current I₃ ≤ 200 mA 6) Short-circuit protection ✓ Reverse polarity protection ✓ Power-up pulse protection ✓ 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 5 m Thread length 39 mm Tightening torque, max. Typ. 90 Nm 7) 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) 150 µm (10 mm 12 mm) 150 µm (10 mm 12 mm)	Supply voltage	10 V DC 30 V DC ¹⁾
Hysteresis	Ripple	≤ 10 %
Reproducibility ≤ 5 % 4 9 5 10 8 Temperature drift (of S₁) ± 10 % EMC According to EN 60947-5-2 Continuous current Ia ≤ 200 mA 6 1 Short-circuit protection ✓ Reverse polarity protection ✓ Power-up pulse protection ✓ 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) UL File No. E181493 Teach-in accuracy +/- 3% of Sr Resolution, typical (range) 40 μm (0 mm 10 mm) 150 μm (10 mm 12 mm) T5 μm (8 mm 10 mm) 150 μm (10 mm 12 mm)	Voltage drop	\leq 2 V $^{2)}$
EMC Continuous current Ia Short-circuit protection Reverse polarity protection 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 Housing length Thread length Tightening torque, max. UL File No. Teach-in accuracy Resolution, typical (range) 40 μm (0 mm 8 mm) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm) Figure (8 mm 12 mm) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm)	Hysteresis	Programmable ³⁾
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Reverse polarity protection ✓ 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 100 g / 2 ms / 500 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 g Which is the control of the cycles of the	Continuous current I _a	≤ 200 mA ⁶⁾
Power-up pulse protection 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 T) UL File No. E181493 Teach-in accuracy Resolution, typical (range) 40 μm (0 mm 8 mm) 75 μm (8 mm 10 mm) 150 μm (10 mm 12 mm) 75 μm (8 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 T)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)	Reverse polarity protection	✓
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 T) 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)	Power-up pulse protection	✓
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Sensing face materialPlastic, LCPHousing length65 mmThread length39 mmTightening torque, max.Typ. 90 Nm 7)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
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Tightening torque, max. Typ. 90 Nm ⁷⁾ 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
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
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$75 \ \mu m \ (8 \ mm \ \ 10 \ mm) \\ 150 \ \mu m \ (10 \ mm \ \ 12 \ mm)$ $75 \ \mu m \ (8 \ mm \ \ 10 \ mm) \\ 150 \ \mu m \ (8 \ mm \ \ 10 \ mm) \\ 150 \ \mu m \ (10 \ mm \ \ 12 \ mm)$	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⁾ With gold plated contact pins.

³⁾ According to EN 60529.

⁴⁾ According to ISO 20653:2013-03.

²⁾ At I_a max.

 $^{^{\}rm 3)}$ To comply with EN 60947-5-2, a hysteresis of approx. 10% must be set.

⁴⁾ Supply voltage Ub and constant ambient temperature Ta.

⁵⁾ Of Sr.

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

 $^{^{7)}\,\}mbox{Valid}$ if toothed side of nut is used.

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INDUCTIVE PROXIMITY SENSORS

Safety-related parameters

MTTF _D	688 years
DC _{avg}	0 %
T _M (mission time)	20 years

Communication interface

Communication interface	IO-Link V1.1
Communication Interface detail	COM2 (38,4 kBaud)
Cycle time Process data length	5 ms 32 Bit
Process data structure	Bit 0 = switching signal Q _{1.1}
r rocess data structure	Bit 1 = switching signal Q _{L2} Bit 2 = switching signal Q _{Int3} Bit 3 = switching signal Q _{Int4} Bit 16 31 = distance 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 (AI)	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	Base logics
Logic function	AND OR

¹⁾ SIO Direct: sensor operation in standard I/O mode without IO-Link communication and without using internal sensor logic or time parameters (set to "direct"/"deactivated")

²⁾ SIO Logic: Sensor operation in standard I/O mode without IO-Link communication. Sensor-internal logic or timing parameters plus Automation Functions used.

³⁾ IOL: Sensor operation with full IO-Link communication and usage of logic, timing and Automation Function parameters.

		XOR Hysteresis
Timer function		On delay Off delay ON and OFF delay Impulse (one shot)
Inverter		Adjustable
Switching frequency		SIO Direct: 250 Hz $^{1)}$ SIO Logic: 250 Hz $^{2)}$ IOL: 250 Hz $^{3)}$
Switching signal		
Si	witching signal Q _{L1}	Switching output
Sı	witching signal Q _{L2}	Switching output

¹⁾ SIO Direct: sensor operation in standard I/O mode without IO-Link communication and without using internal sensor logic or time parameters (set to "direct"/"deactivated").

Classifications

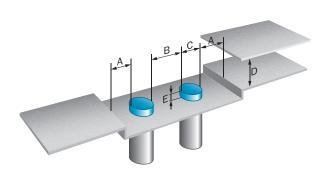
eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101
eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
eCl@ss 7.0	27270101
eCl@ss 8.0	27270101
eCl@ss 8.1	27270101
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101
eCl@ss 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

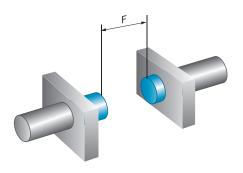
²⁾ SIO Logic: Sensor operation in standard I/O mode without IO-Link communication. Sensor-internal logic or timing parameters plus Automation Functions used.

³⁾ IOL: Sensor operation with full IO-Link communication and usage of logic, timing and Automation Function parameters.

Installation note

Non-flush installation





Connection diagram

Cd-526

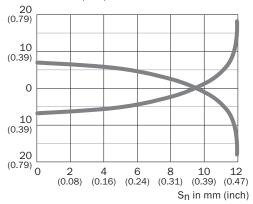
Q_{L1}/C = Switching output, IO-Link communication

MF = Multifunction

Response diagram

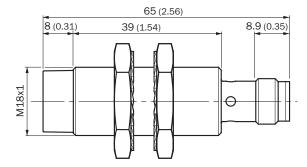
Response diagram

Distance in mm (inch)



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.		
Connection modules					
	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		
	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 $7/8^{\prime\prime}$ cable $24~V/8$ A, fieldbus connection via M12 cable	IOLG2PN-03208R01 (IO-Link Master)	6053253		
Universal bar clamp systems					
6	Plate N06N for universal clamp bracket, M18, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322627), mounting hardware	BEF-KHS-N06N	2051622		
6	Plate N11N for universal clamp bracket, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp BEF-KHS-KH3 (5322626), mounting hardware	BEF-KHS-N11N	2071081		
Mounting brackets 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		

	Brief description	Туре	Part no.
Plug connecto	ors and cables		
•	Head A: female connector, M12, 4-pin, straight Head B: Flying leads Cable: Sensor/actuator 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 carried 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: Sensor/actuator 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
50	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: Sensor/actuator cable, PP, unshielded, 2 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 carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H202), only suitable for PNP sensors	DOL-1204-L02MRN	6058482
	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: Sensor/actuator 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), only suitable for PNP sensors	DOL-1204-L05MRN	6058483
5	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: Sensor/actuator cable, PP, unshielded, 2 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)	DOL-1204-W02MRN	6058474
	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: Sensor/actuator 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: Sensor/actuator 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 carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2)	DSL-1204-B02MRN	6058502
	Head A: female connector, M12, 4-pin, angled Head B: male connector, M12, 4-pin, straight Cable: Sensor/actuator 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-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: Sensor/actuator 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: Sensor/actuator 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)	DSL-1204-G05MRN	6058500

Recommended services

Additional services → www.sick.com/IMC

	Туре	Part no.
Function Block Factory		
• Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found 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."

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