IMC08-02BPPVC0SC05

SICK Sensor Intelligence.

INDUCTIVE PROXIMITY SENSORS

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMC08-02BPPVC0SC05	1084804

Included in delivery: BEF-MU-M08N (1)

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



Detailed technical data

Features	
Housing	Metric
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S _n	0 mm 2 mm ¹⁾
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Male connector M12, 4-pin ²⁾
Function	Q1: Two films
Switching output	PNP
Output function	NO
Electrical wiring	DC 4-wire
Enclosure rating	IP68 ³⁾ IP69K ⁴⁾
Special features	Double film sensor, Resistant against coolant lubricants
Special applications	Zones with coolants and lubricants, Difficult application conditions
Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)

¹⁾ Adjustable.

 $^{2)}$ With gold plated contact pins.

³⁾ According to EN 60529.

⁴⁾ According to ISO 20653:2013-03.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %

 $^{1)}$ At I_a max.

²⁾ Of Sr.

 $^{\rm 3)}$ 200 mA total for both switching outputs.

 $^{\rm 4)}\,\rm Valid$ if toothed side of nut is used.

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Voltage drop	$\leq 2 V^{(1)}$
Hysteresis	3 % 20 %
Reproducibility	2)
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	\leq 200 mA ³⁾
Short-circuit protection	\checkmark
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	-25 °C +75 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, LCP
Housing length	60 mm
Thread length	32 mm
Tightening torque, max.	Typ. 32 Nm ⁴⁾
UL File No.	E181493

¹⁾ At I_a max.

²⁾ Of Sr.

³⁾ 200 mA total for both switching outputs.

⁴⁾ Valid if toothed side of nut is used.

Safety-related parameters

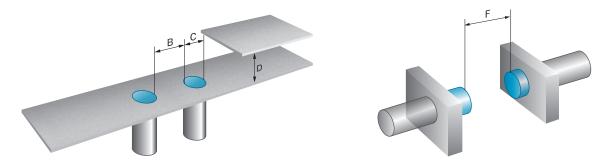
MTTF _D	688 years
DC _{avg}	0 %
T _M (mission time)	20 years
Reduction factors	
Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (Al)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Installation note	
Remark	Associated graphic see "Installation"
В	12 mm
c	12 mm
D	12 mm
F	32 mm
Smart Task	
Smart Task name	Base logics
Classifications	
ECLASS 5.0	27270101

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

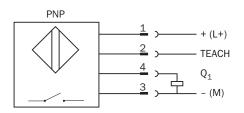
Installation note

Flush installation



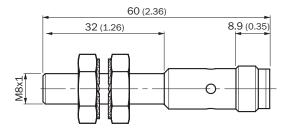
Connection diagram

Cd-421



Dimensional drawing (Dimensions in mm (inch))

IMC08 Standard, connector, M12, flush



Recommended accessories

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

	Brief description	Туре	Part no.	
Connection m	Connection modules			
1. Co	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A $$	IOLA2US-01101 (SiLink2 Master)	1061790	
	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	
Universal bar	clamp systems			
() ()	Plate N11N for universal clamp bracket, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322627), mounting hardware	BEF-KHS-N11N	2071081	
Mounting brac	ckets and plates			
	Mounting plate for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M08	5321722	
	Mounting bracket for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M08	5321721	
6	 Connection type head A: Female connector, M12, 4-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PP Description: Sensor/actuator cable, unshielded Connection systems: Flying leads Note: 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) Application: Hygienic and washdown zones, Drag chain operation 	DOL-1204-G02MRN	6058291	

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	Brief description	Туре	Part no.
	 Connection type head A: Female connector, M12, 4-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PP Description: Sensor/actuator cable, unshielded Connection systems: Flying leads Note: 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) Application: Hygienic and washdown zones, Drag chain operation 	DOL-1204-G05MRN	6058476
Ð	 Connection type head A: Female connector, M12, 4-pin, angled Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PP Description: Sensor/actuator cable, unshielded Connection systems: Flying leads Note: 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) Application: Hygienic and washdown zones, Drag chain operation 	DOL-1204-W02MRN	6058474
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e)	 Connection type head A: Female connector, M12, 4-pin, angled Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PP Description: Sensor/actuator cable, unshielded, LED function display Connection systems: Flying leads Note: 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 Application: Hygienic and washdown zones, Drag chain operation 	DOL-1204-L02MRN	6058482
	 Connection type head A: Female connector, M12, 4-pin, angled Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PP Description: Sensor/actuator cable, unshielded, LED function display Connection systems: Flying leads Note: 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 Application: Hygienic and washdown zones, Drag chain operation 	DOL-1204-L05MRN	6058483

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

