

IMF08-02BPONCOS

INDUCTIVE PROXIMITY SENSORS



INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMF08-02BPONCOS	1076747

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



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard
Thread size	M8 1
Diameter	Ø 8 mm
Sensing range S _n	2 mm
Safe sensing range S _a	1.62 mm
Installation type	Flush
Switching frequency	4,000 Hz
Connection type	Male connector M12, 4-pin ¹⁾
Switching output	PNP
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP68 ²⁾ IP69K ³⁾
Special features	Suitable for use in the food industry, Resistant to cleaning agents

¹⁾ With gold plated contact pins.

²⁾ According to EN 60529.

³⁾ According to ISO 20653:2013-03.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	$\leq 2 V^{(1)}$
Current consumption	\leq 10 mA ²⁾

 $^{1)}$ At I_a max.

²⁾ Without load.

 $^{\rm (3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

INDUCTIVE PROXIMITY SENSORS

Hysteresis 3% 20% Reproducibility $\leq 2 \%^{3) 4}$ Temperature drift (of S _r) $\pm 10\%$
Temperature drift (of S) + 10 %
EMC According to EN 60947-5-2
Continuous current I _a ≤ 200 mA
Short-circuit protection
Reverse polarity protection
Power-up pulse protection
Shock and vibration resistance 100 g / 11 ms / 1000 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz, 1 mm / 55 z 500 Hz / 15 g
Ambient operating temperature -40 °C +100 °C
Housing material Stainless steel, V4A (1.4404, AISI 316L)
Sensing face material Plastic, LCP (FDA certified)
Housing length 60 mm
Thread length 32 mm
Tightening torque, max. Typ. 14 Nm
UL File No. E181493

¹⁾ At I_a max.

²⁾ Without load.

 $^{(3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.74
Aluminum (Al)	Approx. 0.43
Copper (Cu)	Approx. 0.33
Brass (Br)	Approx. 0.46

Installation note

Remark	Associated graphic see "Installation"
В	6.5 mm
с	8 mm
D	6 mm
F	16 mm

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

INDUCTIVE PROXIMITY SENSORS

ECl@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

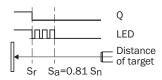
Installation note

Flush installation



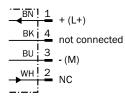
Adjustments possible

Normally closed



Connection diagram

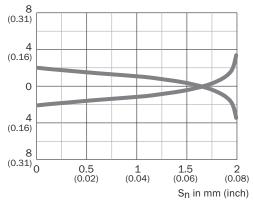
cd-008



Characteristic curve

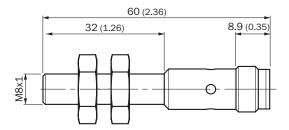
Flush installation

Distance in mm (inch)



Dimensional drawing (Dimensions in mm (inch))

IMF08, flush



Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brac	Mounting brackets 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	
Plug connectors and cables				
69	Head A: female connector, M12, 4-pin, straight Head B: open cable ends 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.	DOL-1204-G02MRN	6058291	

INDUCTIVE PROXIMITY SENSORS

	Brief description	Туре	Part no.
	Head A: female connector, M12, 4-pin, straight Head B: open cable ends 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.	DOL-1204-G05MRN	6058476
50	Head A: female connector, M12, 4-pin, angled with LED Head B: open cable ends 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.	DOL-1204-L02MRN	6058482
	Head A: female connector, M12, 4-pin, angled with LED Head B: open cable ends 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.	DOL-1204-L05MRN	6058483
E.	Head A: female connector, M12, 4-pin, angled Head B: open cable ends 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.	DOL-1204-W02MRN	6058474
	Head A: female connector, M12, 4-pin, angled Head B: open cable ends 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.	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 H202 and CH202. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked.	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 H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked.	DSL-1204-B05MRN	6058503
0	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 H202 and CH202. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked.	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 H202 and CH202. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked.	DSL-1204-G05MRN	6058500

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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.

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