

IMF08-04NNSNCOS

IMF

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IMF08-04NNSNC0S	1076753

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

Illustration may differ



Detailed technical data

Features

i catares	
Housing	Cylindrical thread design
Housing	Standard
Thread size	M8 1
Diameter	Ø 8 mm
Sensing range S _n	4 mm
Safe sensing range S _a	3.24 mm
Installation type	Non-flush
Switching frequency	4,000 Hz
Connection type	Male connector M12, 4-pin ¹⁾
Switching output	NPN
Output function	NO
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.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 2 V ¹⁾
Current consumption	\leq 10 mA $^{2)}$
Hysteresis	3 % 20 %

 $^{^{1)}}$ At I $_{\rm a}$ max.

²⁾ According to EN 60529.

 $^{^{3)}}$ According to ISO 20653:2013-03.

²⁾ Without load.

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

⁴⁾ Of Sr.

Reproducibility	≤ 2 % ^{3) 4)}
	\$ 2.70
Temperature drift (of S _r)	± 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	$100\mathrm{g}/11\mathrm{ms}/1000$ cycles; $150\mathrm{g}/1$ Mio cycles; 10 Hz 55 Hz, $1\mathrm{mm}/55$ z 500 Hz $/15\mathrm{g}$
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	28 mm
Tightening torque, max.	Typ. 14 Nm
UL File No.	E181493

 $^{^{1)}}$ At $I_{\rm a}$ max.

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.69
Aluminum (Al)	Approx. 0.37
Copper (Cu)	Approx. 0.28
Brass (Br)	Approx. 0.4

Installation note

Remark	Associated graphic see "Installation"
Α	8 mm
В	18 mm
c	8 mm
D	12 mm
E	8 mm
F	32 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

²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

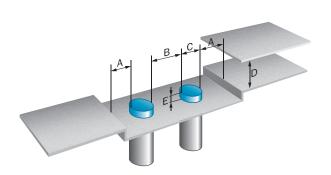
IMF08-04NNSNCOS | IMF

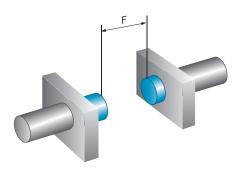
INDUCTIVE PROXIMITY SENSORS

ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

Installation note

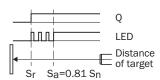
Non-flush installation





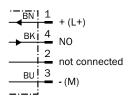
Adjustments possible

Normally open



Connection diagram

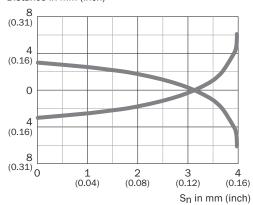
cd-007



Characteristic curve

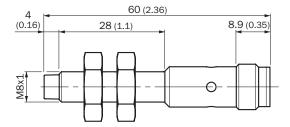
Non-flush installation

Distance in mm (inch)



Dimensional drawing (Dimensions in mm (inch))

IMF08, non flush



Recommended accessories

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

	Brief description	Туре	Part no.
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			
•	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 carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-G02MRN	6058291

	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
	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 H202 and CH202. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-LO2MRN	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 H202 and CH202. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-L05MRN	6058483
8	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 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-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
6	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.	DSL-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.	DSL-1204-B05MRN	6058503
6	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

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.

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