



INDUCTIVE PROXIMITY SENSORS



IM08-02BPO-ZT1 | IM Standard

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IM08-02BPO-ZT1	7900007

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





Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard design
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S _n	2 mm
Installation type	Flush
Switching frequency	3,000 Hz
Connection type	Connector M8, 3-pin
Switching output	PNP
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	< 10 % ¹⁾
Voltage drop	\leq 1.2 V ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	2 % 15 %
Reproducibility	< 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %

 $^{1)}$ Of $\rm V_S.$

 $^{2)}$ At I_a max.

 $^{\rm 3)}$ Supply voltage U_B and constant ambient temperature Ta.

⁴⁾ Of Sr.

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EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Short-circuit protection	\checkmark
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Brass, Nickel-plated brass
Sensing face material	Plastic
Housing length	50 mm
Thread length	35.3 mm
Tightening torque, max.	4 Nm

 $^{1)}$ Of V_S.

²⁾ At I_a max.

 $^{\rm 3)}$ Supply voltage ${\rm U}_{\rm B}$ and constant ambient temperature Ta.

⁴⁾ Of Sr.

Safety-related parameters

MTTF _D	152 years
DC _{avg}	0 %
Installation noto	

Installation note

Remark	Associated graphic see "Installation"
A	3.25 mm
В	8 mm
c	8 mm
D	6 mm
E	0 mm
F	16 mm

Classifications

ECLASS 5.0	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

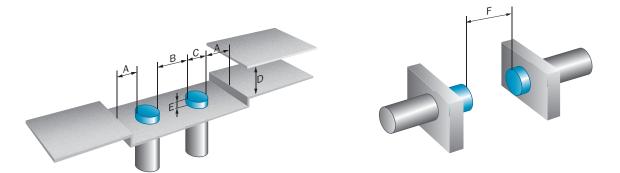
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ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Non-flush installation



Connection type



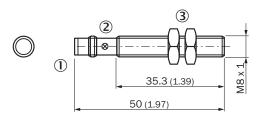
Connection diagram

Cd-004



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Dimensional drawing (Dimensions in mm (inch))



Connection
 Display LED

③ Fastening nuts (2x); width across 13, metal

Recommended accessories

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

	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 connecto	ors and cables		
	 Connection type head A: Female connector, M8, 3-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	DOS-0803-G	7902077
×,	 Connection type head A: Female connector, M8, 3-pin, angled Description: Unshielded Connection systems: Solder connection Permitted cross-section: ≤ 0.25 mm² 	DOS-0803-W	7902078
	 Connection type head A: Male connector, M8, 3-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322
Terminal and	alignment brackets		
	Clamping block for round sensors M8, without fixed stop, plastic (PA12), glass-fiber rein- forced, mounting hardware included	BEF-KH-M08	2051477
Others			
•	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 020VA1XLEAX	2095860

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	Brief description	Туре	Part no.
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 050VA1XLEAX	2095884
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 020VA1XLEAX	2096165
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 050VA1XLEAX	2096166

SICK AT A GLANCE

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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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For us, that is "Sensor Intelligence."

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