

IM08-02BNO-ZT1

IM Standard

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IM08-02BN0-ZT1	7900008

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

Illustration may differ



Detailed technical data

Features

Housing	Metric
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	NPN
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 V_{S} .

²⁾ At I_a max.

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

⁴⁾ Of Sr.

EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Short-circuit 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} .

Safety-related parameters

MTTF _D	152 years
DC _{avg}	0 %

Installation note

Remark	Associated graphic see "Installation"
Α	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
ETIM 7.0	EC002714

²⁾ At I_a max.

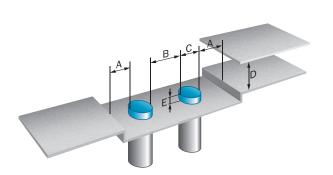
 $^{^{\}rm 3)}$ Supply voltage ${\rm U_B}$ and constant ambient temperature Ta.

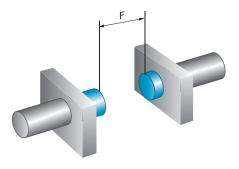
⁴⁾ Of Sr

ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Non-flush installation



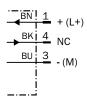


Connection type

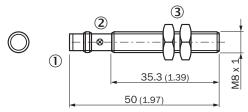


Connection diagram

Cd-004



Dimensional drawing (Dimensions in mm (inch))



- ① Connection
- ② 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 bra	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	
Terminal and	l alignment brackets			
	Clamping block for round sensors M8, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $\frac{1}{2} \frac{1}{2} $	BEF-KH-M08	2051477	
Others				
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded 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, A-coded 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, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322	
	 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	
•	 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	

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