

IM08-06NPS-ZW1

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	part no.
IM08-06NPS-ZW1	6027506

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

Illustration may differ

Detailed technical data

Features

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Housing	Metric
Housing	Standard design
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S _n	6 mm
Safe sensing range S _a	4.86 mm
Installation type	Non-flush
Switching frequency	500 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Switching output detail	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Special features	Triple sensing range
Items supplied	Mounting nut, brass, chromium-plated (2x) Washer, brass, chromium-plated, with locking teeth (2x)

¹⁾ According to EN 60529.

Mechanics/electronics

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Supply voltage	10 V DC 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	≤ 2 V ²⁾
Time delay before availability	≤ 50 ms
Hysteresis	1 % 15 %

 $^{^{1)}}$ Of V_{S} .

²⁾ At I_a max.

³⁾ Of Sr.

 $^{^{4)}}$ UB = 20 V DC ... 30 V DC, TA = 23 °C \pm 5 °C.

 $^{^{5)}}$ LED lights continuously (0 \leq s \leq 0.8 Sr); LED flashing (0.8 Sr < s \leq Sr).

Reproducibility	≤ 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Cable material	PVC
Conductor size	0.14 mm ²
Cable diameter	Ø 3.5 mm
Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Installation aid	✓ ⁵⁾
Ambient operating temperature	-25 °C +70 °C
Housing material	Brass, chromium-plated
Sensing face material	Plastic, PTB
Housing length	45 mm
Thread length	41 mm
Tightening torque, max.	4 Nm

 $^{^{1)}}$ Of V_{S} .

Safety-related parameters

MTTFD	171 years
DC _{avg}	0%
T _M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.77
Aluminum (AI)	Approx. 0.47
Copper (Cu)	Approx. 0.44
Brass (Br)	Approx. 0.55

Installation note

Remark	Associated graphic see "Installation"
A	8 mm
В	20 mm
С	8 mm
D	18 mm
E	8 mm
F	60 mm

²⁾ At I_a max.

³⁾ Of Sr.

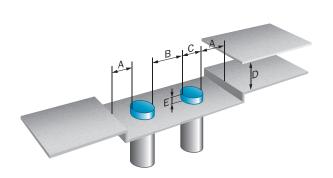
 $^{^{4)}}$ UB = 20 V DC ... 30 V DC, TA = 23 °C \pm 5 °C.

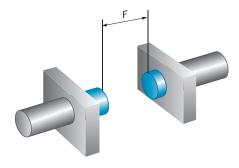
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Classifications

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
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note Non-flush installation





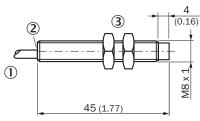
Connection type



Connection diagram Cd-001



Dimensional drawing IM08 Triplex, cable, non-flush



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/IML

	Brief description	Туре	part no.	
Mounting syst	Mounting systems			
	 Description: Clamping block for round sensors M8, with fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included 	BEF-KHF-M08	2051478	
	 Description: Clamping block for round sensors M8, without fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included 	BEF-KH-M08	2051477	
619	 Description: Mounting plate for M8 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware 	BEF-WG-M08	5321722	
	 Description: Mounting bracket for M8 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware 	BEF-WN-M08	5321721	

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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."

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