

IM12-08NPS-ZCK

IM Standard

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IM12-08NPS-ZCK	6025686

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S _n	8 mm
Installation type	Non-flush
Switching frequency	2,000 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NO
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	≤ 1.5 V ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	1 % 15 %
Reproducibility	≤ 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %

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

²⁾ At L may

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

⁴⁾ Of Sr.

EMC	According to EN 60947-5-2
Continuous current I _a	≤ 300 mA
Wire-break protection	✓
Short-circuit protection	✓
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 +75 °C
Housing material	Brass, Nickel-plated brass
Sensing face material	Plastic
Housing length	52.2 mm
Thread length	30 mm
Tightening torque, max.	≤ 7 Nm

¹⁾ Of V_S.

Installation note

Remark	Associated graphic see "Installation"
Α	12 mm
В	24 mm
c	12 mm
D	24 mm
E	8 mm
F	64 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
ETIM 8.0	EC002714

²⁾ At I_a max.

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

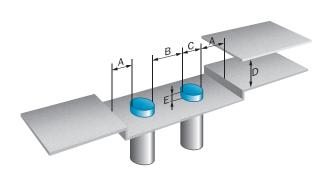
⁴⁾ Of Sr.

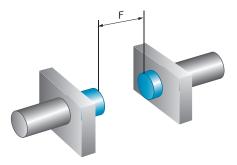
UNSPSC 16.0901

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Installation note

Non-flush installation

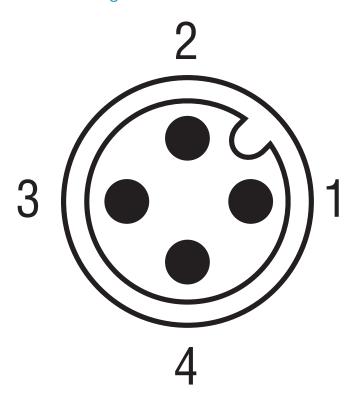




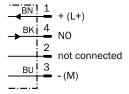
Connection type



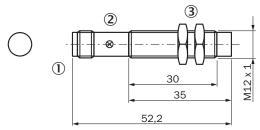
Connection diagram



Cd-007



Dimensional drawing (Dimensions in mm (inch))



- ① Connection
- ② Display LED
- 3 Fastening nuts (2x); width across 17, metal

Recommended accessories

Other models and accessories \rightarrow www.sick.com/IM_Standard

	Brief description	Туре	Part no.	
Mounting bra	Mounting brackets and plates			
رانا	Mounting plate for M12 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M12	5321869	
40	Mounting bracket for M12 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M12	5308447	
Plug connecto	Plug connectors and cables			
	Connection type head A: Female connector, M12, 4-pin, straight Description: Unshielded, Head A: female connector, M12, 4-pin, straight, unshielded, for power supply, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1204-G	6007302	
	Connection type head A: Female connector, M12, 4-pin, angled Description: Unshielded, Head A: female connector, M12, 4-pin, angled, unshielded, for power supply, for cable diameter 3 mm 6.5 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1204-W	6007303	
	Connection type head A: Male connector, M12, 4-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	STE-1204-G	6009932	

	Brief description	Туре	Part no.
	 Connection type head A: Male connector, M12, 4-pin, angled Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	STE-1204-W	6022084
Terminal and	alignment brackets		
	Clamping block for round sensors M12, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$	BEF-KH-M12	2051479
	Clamping block for round sensors M12, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$	BEF-KHF-M12	2051480
Others			
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 020VB3XLEAX	2096234
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 050VB3XLEAX	2096235
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 020VB3XLEAX	2095895
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 050VB3XLEAX	2095897
03	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded, LED function display Note: Only suitable for PNP sensors Application: Zones with chemicals 	YI2A14- 020VB3XLEAX	2096222
0	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded, LED function display Note: Only suitable for PNP sensors Application: Zones with chemicals 	YI2A14- 050VB3XLEAX	2096223

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For us, that is "Sensor Intelligence."

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