



IM12-04NPS-ZCK

IM Standard

PRODUCT PORTFOLIO





Ordering information

Туре	Part no.
IM12-04NPS-ZCK	1017429

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





Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body Short-body
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S _n	4 mm
Installation type	Non-flush
Switching frequency	2,000 Hz
Connection type	Male connector M12, 4-pin
Output type	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Complexed to	10 / 00 20 / 00
Supply voltage	10 V DC 30 V DC
Ripple	< 10 % ¹⁾
Voltage drop	\leq 1.5 V $^{2)}$
Current consumption	\leq 10 mA $^{3)}$
Time delay before availability	≤ 2 ms
Hysteresis	1 % 10 %
Reproducibility	≤ 1 % ^{4) 5)}
Temperature drift (of S _r)	± 10 %

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

 $^{^{2)}}$ At I $_{\rm a}$ max.

³⁾ Without load.

 $^{^{4)}}$ Ub and Ta constant.

⁵⁾ 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	Metal, Nickel-plated brass
Sensing face material	Plastic, Plastic
Housing length	45 mm
Thread length	27 mm
Tightening torque, max.	7 Nm

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

Installation note

Remark	Associated graphic see "Installation"
A	12 mm
В	24 mm
c	12 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
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

²⁾ At I_a max.

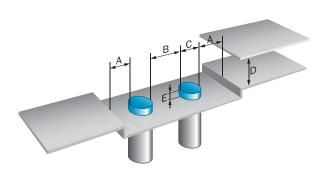
³⁾ Without load.

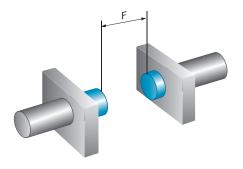
⁴⁾ Ub and Ta constant.

⁵⁾ Of Sr.

Installation note

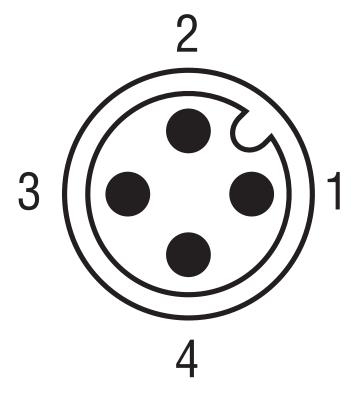
Non-flush installation



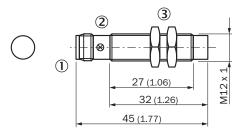


Connection diagram

Cd-007



Dimensional drawing (Dimensions in mm (inch))



- ① Connection
- ② Indication LED
- ③ Fastening nuts (2x); width across 17, 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 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	
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	
Plug connectors and cables				
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-G02M	6009382	
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866	
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-L02M	6027945	
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-L05M	6027944	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-W02M	6009383	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-W05M	6009867	

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	Brief description	Туре	Part no.
	Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
	Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303
W/S	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932
	Head A: male connector, M12, 4-pin, angled Head B: - Cable: unshielded	STE-1204-W	6022084

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