

IMR08-06NPSTCOS

INDUCTIVE PROXIMITY SENSORS



IMR08-06NPSTCOS | IMR

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMR08-06NPSTC0S	6069274

Other models and accessories -> www.sick.com/IMR



Detailed technical data

Features Housing Cylindrical thread design Housing Standard design Thread size M8 Diameter Ø8mm Sensing range S_n 6 mm Safe sensing range S_a 4.8 mm Installation type Non-flush Switching frequency 1,000 Hz **Connection type** Male connector M12, 4-pin Switching output PNP **Output function** NO **Electrical wiring** DC 3-wire **Enclosure rating** IP68 Special features Reduction factor 1, Weld immune, triple sensing range **Special applications** Welding range, Difficult application conditions **Items supplied** Mounting nut, brass, PTFE coating (2x) Washer, brass, PTFE coating, with locking teeth (2x)

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	\leq 1.8 V ¹⁾
Hysteresis	3 % 15 %
Reproducibility	$\leq 2 \%^{(2)(3)}$
Temperature drift (of S _r)	$\leq \pm 10 \% ^{4)}$

 $^{1)}$ At I_a max.

 $^{\rm 2)}$ Supply voltage Ub and constant ambient temperature Ta.

³⁾ Of Sr.

⁴⁾ -25 °C ... +70 °C.

⁵⁾ Reference voltage: 50 V DC.

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Continuous current I _a	≤ 150 mA
No load current	≤ 15 mA
Off-state current	≤ 0.1 mA
Short-circuit protection	✓
Reverse polarity protection	✓
Magnetic field strength	≤ 100 mT
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	PTFE coating, stainless steel
Sensing face material	Plastic, PTFE coating
Housing length	57 mm
Thread length	35 mm
Tightening torque, max.	Typ. 5 Nm
Protection class	II ⁵⁾
UL File No.	E191603

¹⁾ At I_a max.

²⁾ Supply voltage Ub and constant ambient temperature Ta.

- ³⁾ Of Sr.
- ⁴⁾ -25 °C ... +70 °C.

⁵⁾ Reference voltage: 50 V DC.

Safety-related parameters

MTTFD	139 years
DC _{avg}	0%
T _M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
Reduction factor	Reduction factor 1
Stainless steel (V2A, 304)	1
Aluminum (Al)	1
Copper (Cu)	1
Brass (Br)	1

Installation note

Remark	Associated graphic see "Installation"
A	8 mm
В	16 mm
c	8 mm
D	18 mm
E	12 mm
F	36 mm
G	24 mm

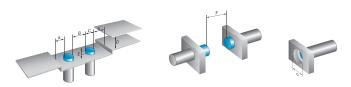
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Classifications

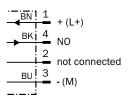
eCl@ss 5.0	27270101
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eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
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eCl@ss 8.0	27270101
eCl@ss 8.1	27270101
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101
eCl@ss 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

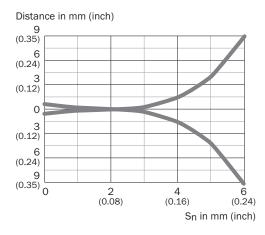


Connection diagram

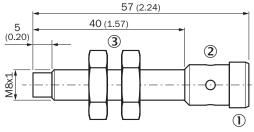
Cd-007



Response diagram



Dimensional drawing (Dimensions in mm (inch))



① M12 x 1

② LED output state, yellow

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

Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brac	Mounting brackets and plates			
	Mounting bracket for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M08	5321721	
Plug connectors and cables				
N o	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A14- 020UW1XLEAX	2104883	
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A14- 050UB3XLEAX	2095608	
		YF2A14- 050UW1XLEAX	2104884	

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Brief description	Туре	Part no.
Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A14- 020UW1XLEAX	2104886
Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A14- 050UW1XLEAX	2104887

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