

IMR08-06NPSTC0S

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	Metric
Housing	Standard design
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S _n	6 mm
Safe sensing range S _a	4.8 mm
Installation type	Non-flush
Switching frequency	1,000 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Switching output detail	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68
Special features	Reduction factor 1, Magnetic-field-resistant, 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	≤ 2 % ²⁾

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

³⁾ Of Sr.

⁴⁾ -25 °C ... +70 °C.

⁵⁾ Reference voltage: 50 V DC.

	3)
Temperature drift (of S _r)	\leq ± 10 % ⁴⁾
Continuous current I _a	≤ 150 mA
No load current	≤ 15 mA
Off-state current	≤ 0.1 mA
Short-circuit 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

Safety-related parameters

MTTF _D	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 (AI)	1
Copper (Cu)	1
Brass (Br)	1

Installation note

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

 $^{^{2)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

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INDUCTIVE PROXIMITY SENSORS

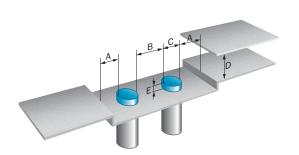
Certificates

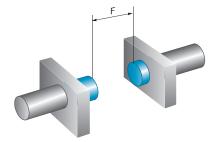
EU declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

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



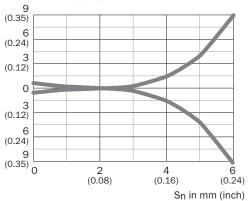




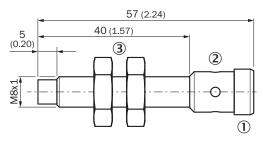
Connection diagram Cd-007

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 sys	tems		
63	 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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INDUCTIVE PROXIMITY SENSORS

	Brief description	Туре	part no.
connectors an	nd cables		
W.	 Connection type head A: Female connector, M8, 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, Uncontaminated zones 	YF8U14-050VA3XLEAX	2095889
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF8U14-050UA3XLEAX	2094792

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