



IMR30-30NPSTC0S

IMR

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	part no.
IMR30-30NPSTC0S	6069280

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



Detailed technical data

Features

Housing	Metric
Housing	Standard design
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	30 mm
Safe sensing range S _a	24.3 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
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 %

 $^{^{1)}}$ At I $_{\rm a}$ max.

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

³⁾ Of Sr.

⁴⁾ -25 °C ... +70 °C.

⁵⁾ Reference voltage: 50 V DC.

Reproducibility	≤ 2 % ²⁾ 3)
Temperature drift (of S _r)	$\leq \pm 10 \% \leq \pm 15 \%^{4)}$
Continuous current I _a	≤ 200 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	-30 °C +85 °C
Housing material	PTFE coating, brass
Sensing face material	Plastic, PTFE coating
Housing length	62 mm
Thread length	31 mm
Tightening torque, max.	Typ. 75 Nm
Protection class	∥ 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"
Α	30 mm
В	105 mm
C	30 mm
D	90 mm
E	15 mm
F	180 mm

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

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IMR30-30NPSTCOS | IMR

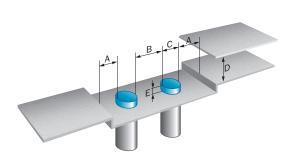
INDUCTIVE PROXIMITY SENSORS

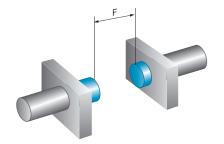
G	90 mm
Certificates	
EU declaration of conformity	✓
China RoHS	√
cULus certificate	✓
Classifications	
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714

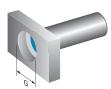
39122230

Installation note

UNSPSC 16.0901

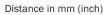


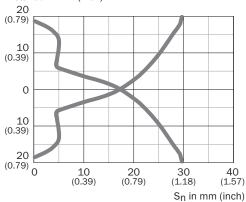




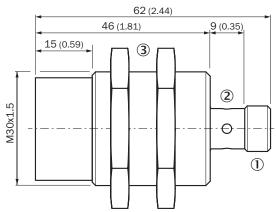
Connection diagram Cd-007

Response diagram





Dimensional drawing



Dimensions in mm (inch)

- ① M12 x 1
- ② LED output state, yellow
- 3 Fastening nuts (2x); width across 36, metal

Recommended accessories

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

	Brief description	Туре	part no.
Mounting syst	ems		
40	 Description: Mounting bracket for M30 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware 	BEF-WN-M30	5308445

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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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