

IMI30-10BPSNC0S

IMI

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IMI30-10BPSNC0S	1093947

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical thread design
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	10 mm
Safe sensing range S _a	8.1 mm
Installation type	Flush
Switching frequency	50 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68, IP69K ¹⁾
Special features	Sensing face made of stainless steel V4A, Resistant to cleaning agents
Special applications	Hygienic and washdown zones, Difficult application conditions

 $^{^{1)}}$ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 % ¹⁾
Voltage drop	\leq 2 V $^{2)}$

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

²⁾ With I max.

³⁾ Without load.

⁴⁾ Of Sr.

Current consumption	10 mA ³⁾
Time delay before availability	≤ 300 ms
Hysteresis	1 % 20 %
Reproducibility	≤ 2 % ⁴⁾
Temperature drift (of S _r)	≤ 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	$100\mathrm{g}/5\mathrm{ms}/1000$ cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz, 1 mm / 55 Hz 500 Hz / 60 g
Ambient operating temperature	-25 °C +75 °C
Housing material	Stainless steel V4A, DIN 1.4404 / AISI 316L
Sensing face material	Stainless steel V4A, DIN 1.4404 / AISI 316L
Housing length	65.3 mm
Thread length	46.3 mm
Tightening torque, max.	≤ 100 Nm
Items supplied	Mounting nut, V4A stainless steel (2x)
Protection class	III
UL File No.	E181493

 $^{^{1)}}$ Of V_S .

Safety-related parameters

MTTF _D	1,892 years
DC _{avg}	0%

Reduction factors

Note	The values are reference values which may vary	
St37 steel (Fe)	Approx. 1	
Stainless steel (V2A, 304)	Approx. 0.52	
Aluminum (AI)	Approx. 0.16	
Copper (Cu)	Approx. 0	
Brass (Br)	Approx. 0.22	

Installation note

Remark	Associated graphic see "Installation"
В	25 mm
c	24 mm
D	20 mm
F	80 mm

²⁾ With I max.

³⁾ Without load.

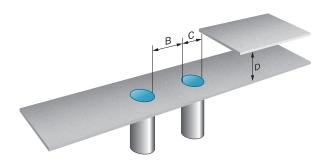
⁴⁾ Of Sr.

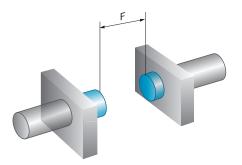
Classifications

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
ECI@ss 10.0	27270101
ECI@ss 11.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Flush installation

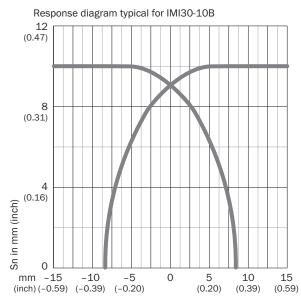




Connection diagram

Cd-007

Response diagram

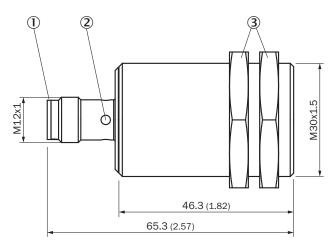


Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Dimensional drawing (Dimensions in mm (inch))

IM30 Inox, flush



- ① Connection
- ② Indication LED
- ③ Fastening nuts (2 x); width across 36, stainless steel V4A

IMI30-10BPSNC0S | IMI

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Recommended services

Additional services → www.sick.com/IMI

	Туре	Part no.
Function Block Factory		
• Brief description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found here .	Function Block Factory	On request

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For us, that is "Sensor Intelligence."

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