

IMI30-10BPSNC0S

IMI

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IMI30-10BPSNC0S	1093947

Included in delivery: BEF-MU-M30N1(1)

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

Illustration may differ



Detailed technical data

Features

Housing	Metric
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
Items supplied	Mounting nut, V4A stainless steel (2x)

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⁾ Of Sr.

Time delay before availability	≤ 300 ms
Hysteresis	1 % 20 %
Reproducibility	≤ 2 % ³⁾
Temperature drift (of S _r)	≤ 10 %
ЕМС	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
No load current	≤ 10 mA
Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	$100~{\rm g}/5~{\rm ms}/1000$ cycles; $150~{\rm g}/1$ Mio cycles; $10~{\rm Hz}55~{\rm Hz}, 1~{\rm mm}/55~{\rm Hz}500~{\rm Hz}/60~{\rm g}$
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
Protection class	III

 $^{^{1)}}$ 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

Classifications

ECLASS 5.0	27270101
ECLASS 5.1.4	27270101

²⁾ With I max.

³⁾ Of Sr.

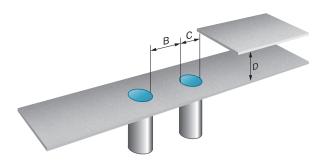
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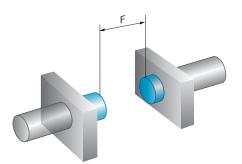
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ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714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

Installation note

Flush installation

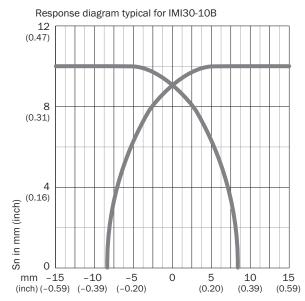




Connection diagram

Cd-007

Response diagram

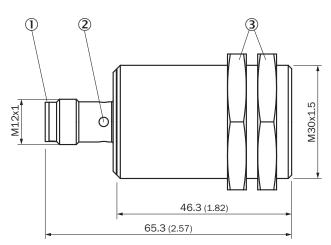


Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Dimensional drawing (Dimensions in mm (inch))

IM30 Inox, flush



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

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Recommended services

Additional services → www.sick.com/IMI

	Туре	Part no.
Function Block Factory		
 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. Note: You can configure your function block at Function Block Factory. As a login please use your SICK ID. 	Function Block Factory	On request

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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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