

IMI30-10BNSNU2S

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMI30-10BNSNU2S	1093954

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

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	Cable, 3-wire, 2 m
Switching output	NPN
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	≤ 2 V ²⁾
Time delay before availability	≤ 300 ms
Hysteresis	1 % 20 %

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

²⁾ With I max.

³⁾ Of Sr.

Reproducibility	≤ 2 % ³⁾
Temperature drift (of S _r)	≤ 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
No load current	≤ 10 mA
Cable material	PUR
Conductor size	0.34 mm ²
Cable diameter	Ø 4.5 mm
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	$100\mathrm{g}/5$ 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	60.3 mm
Thread length	55.8 mm
Tightening torque, max.	≤ 100 Nm
Protection class	III
UL File No.	E181493

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

Safety-related parameters

MTTFD	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.

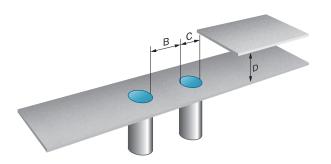
³⁾ Of Sr.

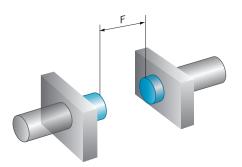
Classifications

eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101
eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
eCl@ss 7.0	27270101
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

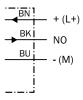
Flush installation



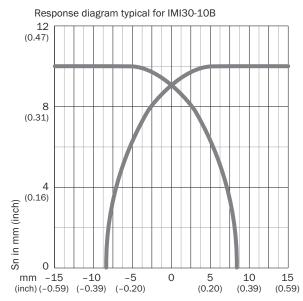


Connection diagram

Cd-001



Response diagram

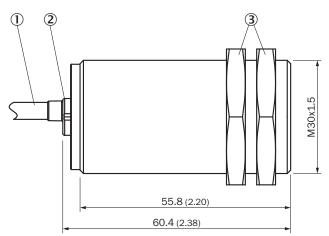


Distance of target edge to center of active face in mm (inch)

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

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Cable: unshielded	DOS-1204-GN	6028357
	Head A: female connector, M12, 4-pin, angled Cable: unshielded	DOS-1204-WN	6028358
	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-GN	6028359
	Head A: male connector, M12, 4-pin, straight Cable: unshielded For 2 cable connections	STE-1204-TN	6028360

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