

IMI18-08BPONU2S

INDUCTIVE PROXIMITY SENSORS



IMI18-08BPONU2S | IMI

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMI18-08BPONU2S	1093936

Included in delivery: BEF-MU-M18N1(1)

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





Detailed technical data

Features

Housing	Cylindrical thread design
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S _n	8 mm
Safe sensing range S _a	6.48 mm
Installation type	Flush
Switching frequency	50 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NC
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	$\leq 2 V^{2}$
Time delay before availability	≤ 300 ms
Hysteresis	1 % 20 %

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

²⁾ With I max.

³⁾ Of Sr.

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$\leq 2 \%^{(3)}$
≤ 10 %
According to EN 60947-5-2
≤ 200 mA
≤ 10 mA
PUR
0.34 mm ²
Ø 4.5 mm
1
1
1
100 g / 5 ms / 1000 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz, 1 mm / 55 Hz 500 Hz /
60 g
60 g -25 °C +75 °C
<u> </u>
-25 °C +75 °C
-25 °C +75 °C Stainless steel V4A, DIN 1.4404 / AISI 316L
-25 °C +75 °C Stainless steel V4A, DIN 1.4404 / AISI 316L Stainless steel V4A, DIN 1.4404 / AISI 316L
-25 °C +75 °C Stainless steel V4A, DIN 1.4404 / AISI 316L Stainless steel V4A, DIN 1.4404 / AISI 316L 59.5 mm
-25 °C +75 °C Stainless steel V4A, DIN 1.4404 / AISI 316L Stainless steel V4A, DIN 1.4404 / AISI 316L 59.5 mm 55 mm

- $^{1)}$ Of V_S.
- ²⁾ With I max.

³⁾ Of Sr.

Safety-related parameters

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

Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	Approx. 1
Stainless steel (V2A, 304)	Approx. 0.83
Aluminum (AI)	Approx. 0.52
Copper (Cu)	Approx. 0.32
Brass (Br)	Approx. 0.6

Installation note

Remark	Associated graphic see "Installation"
В	25 mm
c	18 mm
D	24 mm
F	50 mm

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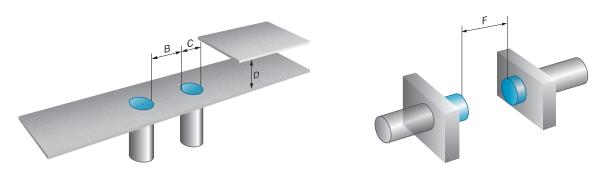
INDUCTIVE PROXIMITY SENSORS

Classifications

	07070404
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

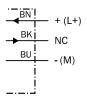
Installation note

Flush installation

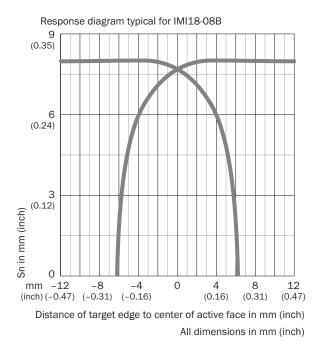


Connection diagram

Cd-003

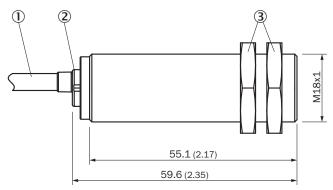


Response diagram



Dimensional drawing (Dimensions in mm (inch))

IM18 Inox, flush



① Connection

- ② Display LED
- 3 Fastening nuts (2 x); width across 24, stainless steel V4A

INDUCTIVE PROXIMITY SENSORS

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connectors and cables			
N	 Connection type head A: Female connector, M12, 4-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Application: Hygienic and washdown zones 	DOS-1204-GN	6028357
	 Connection type head A: Female connector, M12, 4-pin, angled Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Application: Hygienic and washdown zones 	DOS-1204-WN	6028358
	 Connection type head A: Male connector, M12, 4-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Application: Hygienic and washdown zones 	STE-1204-GN	6028359
S	 Connection type head A: Male connector, M12, 4-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For 2 cable connections Application: Hygienic and washdown zones 	STE-1204-TN	6028360

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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.

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