

IMI18-08BNONCOS

IMI

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IMI18-08BNONCOS	1093934

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

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

Illustration may differ



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	Male connector M12, 4-pin
Switching output	NPN
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⁾

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

²⁾ With I max.

³⁾ Of Sr.

Voltage drop	\leq 2 V $^{2)}$
Time delay before availability	≤ 300 ms
Hysteresis	1 % 20 %
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
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	64.7 mm
Thread length	45.7 mm
Tightening torque, max.	≤ 60 Nm
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. 0.83
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

²⁾ With I max.

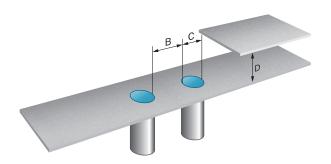
³⁾ Of Sr.

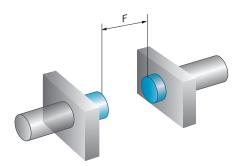
Classifications

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
UNSPSC 16.0901	39122230

Installation note

Flush installation

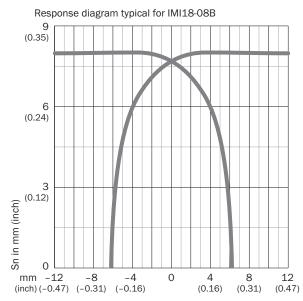




Connection diagram

Cd-008

Response diagram

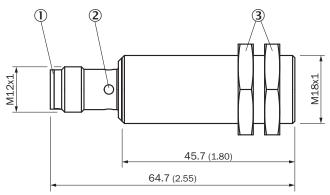


Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Dimensional drawing (Dimensions in mm (inch))

IM18 Inox, flush



- ① Connection
- ② Display LED
- ③ Fastening nuts (2 x); width across 24, stainless steel V4A

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