IMI12-04BNSNCOS

INDUCTIVE PROXIMITY SENSORS



IMI12-04BNSNCOS | IMI

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMI12-04BNSNCOS	1093917

Included in delivery: BEF-MU-M12N1(1)

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





Detailed technical data

Features

Housing	Cylindrical thread design
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S _n	4 mm
Safe sensing range S _a	3.24 mm
Installation type	Flush
Switching frequency	75 Hz
Connection type	Male connector M12, 4-pin
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⁾

 $^{1)}$ Of V_S.

²⁾ With I max.

³⁾ Of Sr.

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	-
Voltage drop	$\leq 2 V^{2}$
Time delay before availability	≤ 300 ms
Hysteresis	1 % 20 %
Reproducibility	$\leq 2 \%^{3}$
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	1
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	100 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	63.8 mm
Thread length	46.8 mm
Tightening torque, max.	≤ 32 Nm
Protection class	III
UL File No.	E181493

 $^{1)}$ Of V_S.

²⁾ With I max.

³⁾ Of Sr.

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. 0.67
Aluminum (AI)	Approx. 0.71
Copper (Cu)	Approx. 0.51
Brass (Br)	Approx. 0.8

Installation note

Remark	Associated graphic see "Installation"
В	12 mm
С	12 mm
D	25 mm
F	32 mm

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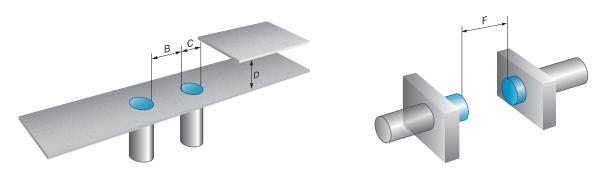
INDUCTIVE PROXIMITY SENSORS

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

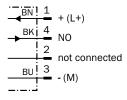
Installation note

Flush installation

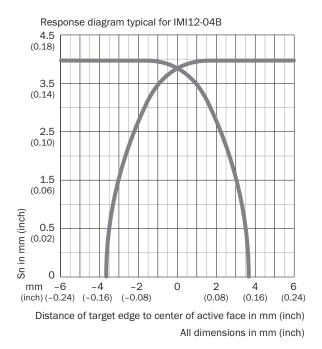


Connection diagram

Cd-007

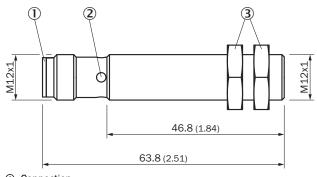


Response diagram



Dimensional drawing (Dimensions in mm (inch))

IM12 Inox, flush



Connection
Display LED

③ Fastening nuts (2 x); width across 17, stainless steel V4A

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For us, that is "Sensor Intelligence."

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