

IME12-08NDOZY2S

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IME12-08ND0ZY2S	1068256

Included in delivery: BEF-MU-M12 (1)

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard design
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S _n	8 mm
Safe sensing range S _a	6.48 mm
Installation type	Non-flush
Switching frequency	2,000 Hz
Connection type	Cable, 2-wire, 2 m, Oil-resistant
Output function	NC
Electrical wiring	DC 2-wire
Enclosure rating	IP67 ¹⁾
Items supplied	Mounting nut, brass, nickel-plated (2x)

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	$\leq 4 V^{1}$ $\leq 4.5 V^{2}$

 $^{^{1)}}$ At I_a = 30 mA.

²⁾ At I₂ max.

 $^{^{\}rm 3)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

⁴⁾ Of Sr.

Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %
Reproducibility	≤ 2 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 100 mA
Off-state current	≤ 0.8 mA
Minimum load current	≥ 3 mA
Cable material	PVC
Conductor size	0.25 mm ²
Cable diameter	Ø 3.9 mm
Short-circuit protection	✓
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Reverse polarity protection	✓
Reverse polarity protection	✓
Reverse polarity protection Power-up pulse	✓ ≤ 5 ms
Reverse polarity protection Power-up pulse Shock and vibration resistance	✓ ≤ 5 ms 30 g, 11 ms/10 Hz 55 Hz, 1 mm
Reverse polarity protection Power-up pulse Shock and vibration resistance Ambient operating temperature	✓ ≤ 5 ms 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C
Reverse polarity protection Power-up pulse Shock and vibration resistance Ambient operating temperature Housing material	✓ ≤ 5 ms 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C Brass, nickel-plated
Reverse polarity protection Power-up pulse Shock and vibration resistance Ambient operating temperature Housing material Sensing face material	✓ ≤ 5 ms 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C Brass, nickel-plated Plastic, PA 66
Reverse polarity protection Power-up pulse Shock and vibration resistance Ambient operating temperature Housing material Sensing face material Housing length	✓ ≤ 5 ms 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C Brass, nickel-plated Plastic, PA 66 63 mm

 $^{^{1)}}$ At I_a = 30 mA.

Safety-related parameters

MTTF _D	1,103 years
DC _{avg}	0 %
T _M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (AI)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.4

Installation note

Remark	Associated graphic see "Installation"
A	12 mm
В	24 mm

²⁾ At I_a max.

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⁴⁾ Of Sr.

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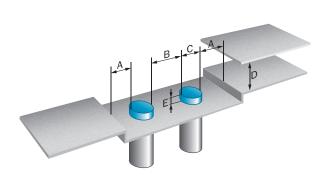
C	12 mm
D	24 mm
E	16 mm
F	64 mm

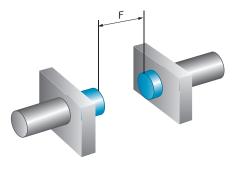
Classifications

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

Non-flush installation





Connection type



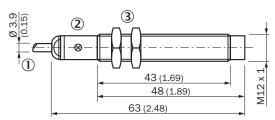
Connection diagram

Cd-012



Dimensional drawing (Dimensions in mm (inch))

IME12 standard, cable, non-flush



- ① Connection
- ② Display LED

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
رانا	Mounting plate for M12 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M12	5321869
40	Mounting bracket for M12 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M12	5308447

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	Brief description	Туре	Part no.
Terminal and	alignment brackets		
	Clamping block for round sensors M12, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$	BEF-KH-M12	2051479
	Clamping block for round sensors M12, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$	BEF-KHF-M12	2051480

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