

IME12-08NDSZY3S

INDUCTIVE PROXIMITY SENSORS



IME12-08NDSZY3S | IME

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IME12-08NDSZY3S	1093042

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

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

Illustration may differ



Detailed technical data

Features

Housing	Metric
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, 3 m, Oil-resistant
Output function	NO
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 I_a max.

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

⁴⁾ Of Sr.

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Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %
Reproducibility	$\leq 2 \%^{(3)(4)}$
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	✓
Power-up pulse	≤ 5 ms
Shock and vibration resistance	30 g, 11 ms/10 Hz 55 Hz, 1 mm
Ambient operating temperature	-25 °C +75 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PA 66
Housing length	63 mm
Thread length	43 mm
Tightening torque, max.	≤ 12 Nm
UL File No.	NRKH.E181493

¹⁾ At I_a = 30 mA.

²⁾ At I_a max.

 $^{\rm (3)}$ Supply voltage ${\rm U}_{\rm B}$ and constant ambient temperature Ta.

⁴⁾ Of Sr.

Safety-related parameters

MTTFD	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 (Al)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.4
Installation note	
Remark	Associated graphic see "Installation"

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

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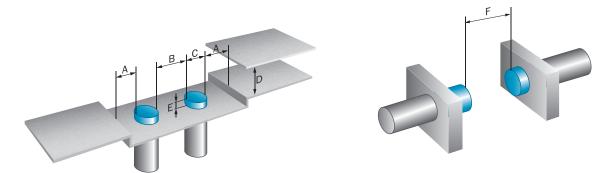
D	24 mm
E	16 mm
F	64 mm

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 8.1 27270101 ECLASS 9.0 27270101 ECLASS 10.0 27270101 ECLASS 11.0 27270101 ECLASS 12.0 27270101 ETIM 5.0 E0002714 ETIM 6.0 E0002714 ETIM 7.0 E0002714		27270101
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	ETIM 7.0	EC002714
ETIM 8.0 EC002714	ETIM 8.0	EC002714
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Installation note

Non-flush installation



Connection type



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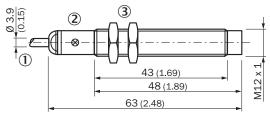
Connection diagram

Cd-012



Dimensional drawing (Dimensions in mm (inch))

IME12 standard, cable, non-flush



① Connection

② Display LED

③ Fastening nuts (2x); width across 17, metal

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting bra	ckets and plates		
	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
Terminal and alignment brackets			
	Clamping block for round sensors M12, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $% \left(\frac{1}{2}\right) =0$	BEF-KH-M12	2051479
	Clamping block for round sensors M12, with fixed stop, plastic (PA12), glass-fiber rein- forced, mounting hardware included	BEF-KHF-M12	2051480

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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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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