

IME12-10NPSZQ9KS72

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	part no.
IME12-10NPSZQ9KS72	1122230

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	Short-body Short-body
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S _n	10 mm
Safe sensing range S _a	8.1 mm
Installation type	Non-flush
Switching frequency	400 Hz
Connection type	Cable with M12 male connector, 4-pin, 0.3 m
Switching output	PNP
Switching output detail	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Special features	Triple sensing range
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 %

¹⁾ At I_a max.

 $^{^{\}rm 2)}$ Supply voltage U_{B} and constant ambient temperature Ta.

³⁾ Of Sr.

Voltage drop	\leq 2 V $^{1)}$
Time delay before availability	≤ 50 ms
Hysteresis	1 % 15 %
Reproducibility	≤ 5 % 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	√
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms/10 Hz 55 Hz, 1 mm
Ambient operating temperature	-25 °C +75 °C
Ambient temperature, storage	-25 °C +75 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PA 66
Housing length	44 mm
Thread length	24 mm
Tightening torque, max.	≤ 12 Nm
UL File No.	NRKH.E181493

 $^{^{1)}}$ At I $_{\rm a}$ max.

Safety-related parameters

MTTF _D	1,735 years
DC _{avg}	0 %

Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.68
Aluminum (AI)	Approx. 0.47
Copper (Cu)	Approx. 0.42
Brass (Br)	Approx. 0.5

Installation note

Remark	Associated graphic see "Installation"
Α	15 mm
В	45 mm
c	12 mm
D	30 mm
E	13 mm
F	100 mm

²⁾ Supply voltage U_B and constant ambient temperature Ta.

³⁾ Of Sr.

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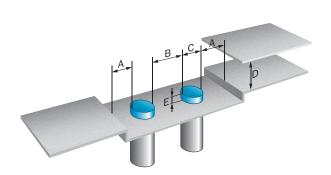
Certificates

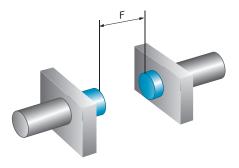
EU declaration of conformity	1
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	√
China RoHS	√
cULus certificate	1

Classifications

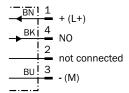
LASS 5.0	27270101
LASS 5.1.4	27270101
LASS 6.0	27270101
LASS 6.2	27270101
LASS 7.0	27270101
LASS 8.0	27270101
LASS 8.1	27270101
LASS 9.0	27270101
LASS 10.0	27270101
LASS 11.0	27270101
LASS 12.0	27274001
IM 5.0	EC002714
IM 6.0	EC002714
IM 7.0	EC002714
IM 8.0	EC002714
ISPSC 16.0901	39122230

Installation note Non-flush installation

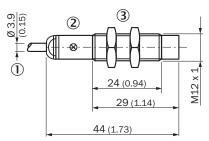




Connection diagram Cd-007



Dimensional drawing IME12 short variant, cable with male connector, non-flush



Dimensions in mm (inch)

- 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 systems			
	 Description: Clamping block for round sensors M12, with fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included 	BEF-KHF-M12	2051480
	 Description: Mounting plate for M12 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware 	BEF-WG-M12	5321869
40	 Description: Mounting bracket for M12 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware 	BEF-WN-M12	5308447
	 Description: Clamping block for round sensors M12, without fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included 	BEF-KH-M12	2051479

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	Brief description	Туре	part no.
connectors an	nd cables		
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF2A14-050VB3XLEAX	2096235
	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YF2A14-050UB3XLEAX	2095608

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