

IME12-04NNSZW2K

INDUCTIVE PROXIMITY SENSORS



IME12-04NNSZW2K | IME

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IME12-04NNSZW2K	1040758

Included in delivery: BEF-MU-M12 (2)

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body
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	Non-flush
Switching frequency	2,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	$\leq 2 V^{(1)}$
Current consumption	10 mA ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %

 $^{1)}$ At I_a max.

²⁾ Without load.

 $^{\rm (3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

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Denne des la Ultra	2) ()
Reproducibility	$\leq 2 \%^{(3)(4)}$
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current l _a	≤ 200 mA
Cable material	PVC
Conductor size	0.25 mm ²
Cable diameter	Ø 3.9 mm
Short-circuit protection	✓
Reverse polarity 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
Housing material	Metal, Nickel-plated brass
Sensing face material	Plastic, PA 66
Housing length	44 mm
Thread length	24 mm
Tightening torque, max.	≤ 12 Nm
Items supplied	Mounting nut, brass, nickel-plated (2x)
UL File No.	NRKH.E181493

¹⁾ At I_a max.

²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

Safety-related parameters

MTTFD	2,327 years
DC _{avg}	0%
Reduction factors	
Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (Al)	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
c	12 mm
D	12 mm
E	8 mm
F	32 mm

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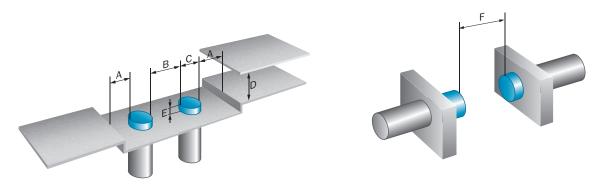
INDUCTIVE PROXIMITY SENSORS

Classifications

ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Non-flush installation



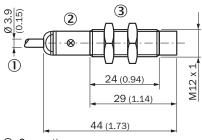
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

IME12 Short-body housing, cable, non-flush



- ① Connection
- ② Indication 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 brackets 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 re- inforced, mounting hardware included	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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