IME08-03BNSZW2K

INDUCTIVE PROXIMITY SENSORS



IME08-03BNSZW2K | IME

INDUCTIVE PROXIMITY SENSORS



Ordering information

_	
Туре	Part no.
IME08-03BNSZW2K	1074009

Included in delivery: BEF-MU-M08 (1)

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S _n	3 mm
Safe sensing range S _a	2.43 mm
Installation type	Quasi-flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
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 %
Voltage drop	$\leq 2 V^{(1)}$

 $^{1)}$ At I_a max.

 $^{2)}\ensuremath{\,\text{Supply voltage U}_B}$ and constant ambient temperature Ta.

³⁾ Of Sr.

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Time delay before availability	≤ 50 ms
Hysteresis	1%15%
Reproducibility	$\leq 5 \%^{(2)(3)}$
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
No load current	≤ 10 mA
Cable material	PVC
Conductor size	0.25 mm ²
Cable diameter	Ø 3.9 mm
Short-circuit protection	✓
Reverse polarity protection	1
Neverse polarity protoction	•
Power-up pulse protection	· •
Power-up pulse protection	
Power-up pulse protection Shock and vibration resistance	✓ 30 g, 11 ms/10 Hz 55 Hz, 1 mm
Power-up pulse protection Shock and vibration resistance Ambient operating temperature	✓ 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C
Power-up pulse protection Shock and vibration resistance Ambient operating temperature Ambient temperature, storage	✓ 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C -25 °C +75 °C
Power-up pulse protection Shock and vibration resistance Ambient operating temperature Ambient temperature, storage Housing material	✓ 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C -25 °C +75 °C Brass, nickel-plated
Power-up pulse protection Shock and vibration resistance Ambient operating temperature Ambient temperature, storage Housing material Sensing face material	✓ 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C -25 °C +75 °C Brass, nickel-plated Plastic, PA 66
Power-up pulse protection Shock and vibration resistance Ambient operating temperature Ambient temperature, storage Housing material Sensing face material Housing length	✓ 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C -25 °C +75 °C Brass, nickel-plated Plastic, PA 66 43 mm

¹⁾ At I_a max.

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

³⁾ Of Sr.

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. 0.75
Aluminum (Al)	Approx. 0.46
Copper (Cu)	Approx. 0.42
Brass (Br)	Approx. 0.56

Installation note

Remark	Associated graphic see "Installation"
A	3 mm
В	20 mm
с	8 mm

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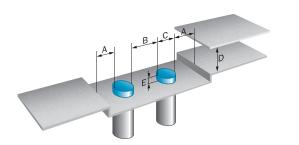
D	9 mm
E	1 mm
F	30 mm

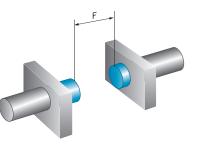
Classifications

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

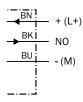
Quasi-flush installation





Connection diagram

Cd-001



Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting bra	Mounting brackets and plates			
	Mounting plate for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M08	5321722	
	Mounting bracket for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M08	5321721	
Terminal and	alignment brackets			
	Clamping block for round sensors M8, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KH-M08	2051477	
	Clamping block for round sensors M8, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KHF-M08	2051478	
Others				
1010	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Male connector, M8, 4-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 020UA3M8U14	2096112	
1	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 020UB5XLEAX	2095617	

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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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Online data sheet

