

IME08-02BD0ZY2S

IME

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IME08-02BD0ZY2S	1068250

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

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

Illustration may differ



Detailed technical data

Features

reatures	
Housing	Cylindrical thread design
Housing	Standard design
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S _n	2 mm
Safe sensing range S _a	1.62 mm
Installation type	Flush
Switching frequency	4,000 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	$\leq 4 V^{1}$ $\leq 4.5 V^{2}$
Time delay before availability	≤ 100 ms

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

 $^{^{2)}}$ At I $_{\rm a}$ max.

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

⁴⁾ Of Sr.

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	✓
Reverse polarity protection	
Reverse polarity protection	✓
Power-up pulse	√ ≤ 5 ms
Power-up pulse	≤ 5 ms
Power-up pulse Shock and vibration resistance	≤ 5 ms 30 g, 11 ms/10 Hz 55 Hz, 1 mm
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
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
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
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 52 mm
Power-up pulse Shock and vibration resistance Ambient operating temperature Housing material Sensing face material Housing length Thread length	≤ 5 ms 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C Brass, nickel-plated Plastic, PA 66 52 mm 34 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"
В	16 mm
C	8 mm
D	6 mm

²⁾ At I_a max.

³⁾ Supply voltage Ub and constant ambient temperature Ta.

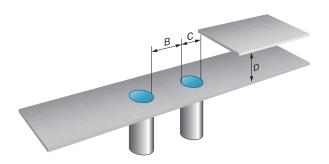
⁴⁾ Of Sr.

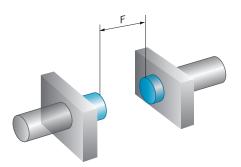
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F	16 mm
Classifications	
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Flush installation





Connection diagram

Cd-012



Recommended accessories

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

	Brief description	Туре	Part no.
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

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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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