IME08-02BNSZWDSS59

IME

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.

IME08-02BNSZWDSS59 | IME

INDUCTIVE PROXIMITY SENSORS

Ordering information

Type	Part no.
IME08-02BNSZWDSS59	1115033

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

Illustration may differ

Detailed technical data

Features

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 with AMP male connector, 3-pin, 200 mm
Switching output	NPN
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 [1]
Items supplied	Mounting nut, steel, nickel-plated (2 x)

[1] According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC … 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 2 V [1]

[1] At I_a max.
[2] Supply voltage Ub and constant ambient temperature Ta.
[3] Of Sr.
[4] T drift +/-20% at –30 °C.

Time delay before availability	≤ 100 ms
Hysteresis	5 % ... 15 %
Reproducibility	≤ 2 % [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
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	–30 °C ... +75 °C [4]
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PA 66
Housing length	71.5 mm
Thread length	52.5 mm
Tightening torque, max.	≤ 5 Nm
UL File No.	NRKH.E181493

[1] At I_a max.

[2] Supply voltage Ub and constant ambient temperature Ta.

[3] Of Sr.

[4] T drift +/-20% at –30 °C.

Safety-related parameters

MTTF$_D$	1,735 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"
B	16 mm
C	8 mm
D	6 mm
F	16 mm

Classifications

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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
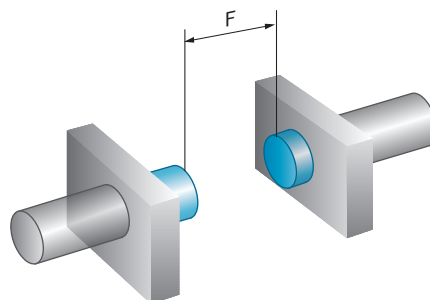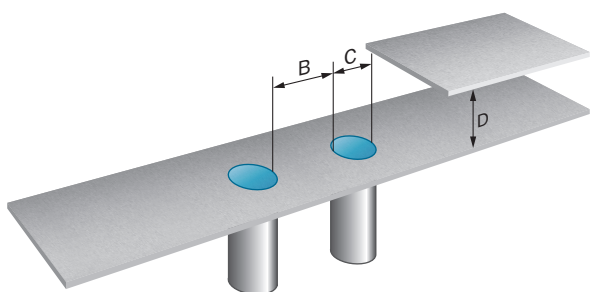
Connection diagram

Cd-240
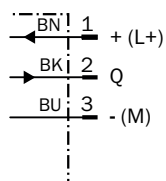
Dimensional drawing (Dimensions in mm (inch))

IME08, advanced, cable with male connector, flush
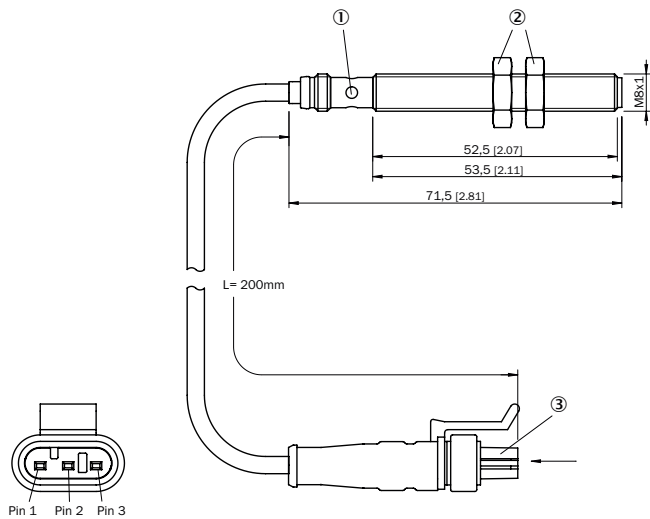
① Function indicator
② Fastening nuts (2x); width across 13, steel nickel-plated
③ Male connector: 1 x housing: AMP no.: 282087-1; 3 x receptacle contact AMP no.: 282403-1; 3 x green seal AMP no.: 281934-4

Recommended accessories

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

Brief description	Type	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

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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