IME08-02BN0ZW2K

INDUCTIVE PROXIMITY SENSORS



IME08-02BN0ZW2K | IME

INDUCTIVE PROXIMITY SENSORS



Ordering information

| Туре | Part no. |
|-----------------|----------|
| IME08-02BN0ZW2K | 1040883 |

Other models and accessories -> www.sick.com/IME

Illustration may differ



Detailed technical data

Features

| Housing | Metric |
|-----------------------------------|--|
| Housing | Short-body |
| 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, 3-wire, 2 m |
| Switching output | NPN |
| Switching output detail | NPN |
| Output function | NC |
| 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 | $\leq 2 V^{(1)}$ |

 $^{1)}$ At I_a max.

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

³⁾ Of Sr.

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| Time delay before availability | ≤ 100 ms |
|--|-------------------------------|
| Hysteresis | 5 % 15 % |
| • | |
| Reproducibility | $\leq 2 \%^{(2)(3)}$ |
| Temperature drift (of S _r) | ± 10 % |
| EMC | According to EN 60947-5-2 |
| Continuous current l _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 | ✓ |
| 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 | Brass, nickel-plated |
| Sensing face material | Plastic, PA 66 |
| Housing length | 43 mm |
| Thread length | 25 mm |
| Tightening torque, max. | ≤ 5 Nm |
| UL File No. | NRKH.E181493 |

 $^{1)}$ At I_a max.

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

 $^{\rm 3)}$ 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. 0.8 | |
| Aluminum (Al) | 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 |
| F | 16 mm |

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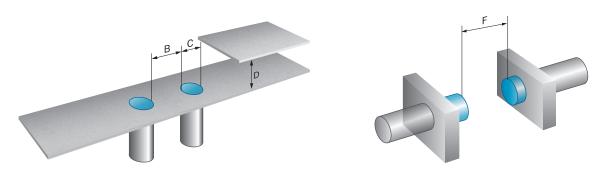
INDUCTIVE PROXIMITY SENSORS

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 |

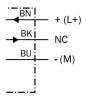
Installation note

Flush installation



Connection diagram

Cd-003



INDUCTIVE PROXIMITY SENSORS

Recommended accessories

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

| | Brief description | Туре | Part no. |
|--------------|--|-------------|----------|
| Mounting bra | ackets and plates | | |
| | Description: Mounting plate for M8 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware | BEF-WG-M08 | 5321722 |
| () III | Description: Mounting bracket for M8 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware | BEF-WN-M08 | 5321721 |
| Terminal and | alignment brackets | | |
| | Description: Clamping block for round sensors M8, without fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included | BEF-KH-M08 | 2051477 |
| | Description: Clamping block for round sensors M8, with fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: 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."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

