

IME08-03BPSZW2K

INDUCTIVE PROXIMITY SENSORS



INDUCTIVE PROXIMITY SENSORS

Ordering information

| Туре | Part no. |
|-----------------|----------|
| IME08-03BPSZW2K | 1074007 |

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 | PNP |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP67 ¹⁾ |
| Special features | Triple sensing range |

¹⁾ According to EN 60529.

Mechanics/electronics

| Supply voltage | 10 V DC 30 V DC |
|--------------------------------|---------------------|
| Ripple | ≤ 10 % |
| Voltage drop | ≤ 2 V ¹⁾ |
| Time delay before availability | ≤ 50 ms |

 $^{^{1)}}$ At I_a max.

 $^{^{2)}}$ Ub and Ta constant.

³⁾ Of Sr.

| Hysteresis | 1 % 15 % |
|----------------------------------------|-----------------------------------------|
| Reproducibility | \leq 5 % $^{2) (3)}$ |
| Temperature drift (of S _r) | ± 10 % |
| ЕМС | According to EN 60947-5-2 |
| Continuous current I _a | ≤ 200 mA |
| Current consumption, no load | ≤ 10 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 |
| Ambient temperature, storage | -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 |
| Items supplied | Mounting nut, brass, nickel-plated (2x) |
| UL File No. | NRKH.E181493 |

 $^{^{1)}}$ At I_a max.

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 |
| C | 8 mm |
| D | 9 mm |

²⁾ Ub and Ta constant.

³⁾ Of Sr.

IME08-03BPSZW2K | IME

INDUCTIVE PROXIMITY SENSORS

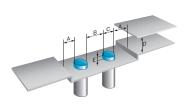
| E | 1 mm |
|---|-------|
| F | 30 mm |

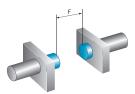
Classifications

| ECI@ss 5.0 27270101 ECI@ss 5.1.4 27270101 ECI@ss 6.0 27270101 ECI@ss 6.2 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 | |
| ECI@ss 10.0 27270101 | |
| ECI@ss 11.0 27270101 | |
| ETIM 5.0 EC002714 | |
| ETIM 6.0 EC002714 | |
| ETIM 7.0 EC002714 | |
| ETIM 8.0 EC002714 | |
| UNSPSC 16.0901 39122230 | |

Installation note

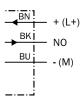
Quasi-flush installation





Connection diagram

Cd-001



Recommended accessories

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

| | Brief description | Туре | Part no. |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|
| Mounting 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 |
| Plug connectors and cables | | | |
| | Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m | YF2A15- 020UB5XLEAX | 2095617 |
| to to | Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M8, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m | YF2A14- 020UA3M8U14 | 2096112 |
| 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.

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