

IME12-02BNOZCOK

IME

INDUCTIVE PROXIMITY SENSORS



Se Love

Ordering information

| Туре | Part no. |
|-----------------|----------|
| IME12-02BNOZCOK | 1040744 |

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

Illustration may differ



Detailed technical data

Features

| Housing | Cylindrical thread design |
|-----------------------------------|---------------------------|
| Housing | Short-body Short-body |
| Thread size | M12 1 |
| Diameter | Ø 12 mm |
| Sensing range S _n | 2 mm |
| Safe sensing range S _a | 1.62 mm |
| Installation type | Flush |
| Switching frequency | 2,000 Hz |
| Connection type | Male connector M12, 4-pin |
| Switching output | NPN |
| Output function | NC |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP67 ¹⁾ |

¹⁾ According to EN 60529.

Mechanics/electronics

| Supply voltage | 10 V DC 30 V DC |
|--------------------------------|----------------------|
| Ripple | ≤ 10 % |
| Voltage drop | \leq 2 V $^{1)}$ |
| Current consumption | \leq 10 mA $^{2)}$ |
| Time delay before availability | ≤ 100 ms |

 $^{^{1)}}$ At I $_{\rm a}$ max.

²⁾ Without load.

 $^{^{}m 3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

| Hysteresis | 5 % 15 % |
|--|-------------------------------|
| Reproducibility | ≤ 2 % ^{3) 4)} |
| Temperature drift (of S _r) | ± 10 % |
| ЕМС | According to EN 60947-5-2 |
| Continuous current I _a | ≤ 200 mA |
| 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 |
| Housing material | Metal, Nickel-plated brass |
| Sensing face material | Plastic, Plastic |
| Housing length | 46 mm |
| Thread length | 29 mm |
| Tightening torque, max. | ≤ 12 Nm |
| UL File No. | NRKH.E181493 |

¹⁾ At I_a max.

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 | 12 mm |
| c | 12 mm |
| D | 6 mm |
| F | 16 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 7.0 | 27270101 |
| ECI@ss 8.0 | 27270101 |
| ECI@ss 8.1 | 27270101 |

²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

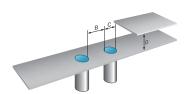
IME12-02BNOZCOK | IME

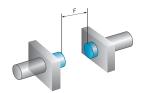
INDUCTIVE PROXIMITY SENSORS

| ECI@ss 9.0 | 27270101 |
|----------------|----------|
| ETIM 5.0 | EC002714 |
| ETIM 6.0 | EC002714 |
| UNSPSC 16.0901 | 39122230 |

Installation note

Flush installation



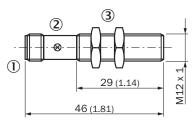


Connection diagram

cd-008

Dimensional drawing (Dimensions in mm (inch))

IME12 Short-body housing, connector, flush



- ① Connection
- ② Indication LED
- ③ Fastening nuts (2x); width across 17, metal

Recommended accessories

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

| | Brief description | Туре | Part no. |
|---------------|---|--------------------|----------|
| Universal bar | clamp systems | | |
| | Universal bar clamp for mounting bars with 12 mm diameter, Zinc diecast, without mounting plate and screws | BEF-KHS-KH3 | 5322626 |
| Mounting bra | ckets and plates | | |
| | Mounting plate for M12 sensors, steel, zinc coated, without mounting hardware | BEF-WG-M12 | 5321869 |
| TS S | Mounting bracket for M12 sensors, steel, zinc coated, without mounting hardware | BEF-WN-M12 | 5308447 |
| Terminal and | alignment brackets | | |
| | Clamping block for round sensors M12, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$ | BEF-KH-M12 | 2051479 |
| | Clamping block for round sensors M12, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$ | BEF-KHF-M12 | 2051480 |
| Plug connect | ors and cables | | |
| P | Head A: female connector, M12, 4-pin, straight, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 2 m | YF2A14-020VB3XLEAX | 2096234 |
| | Head A: female connector, M12, 4-pin, straight, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 5 m | YF2A14-050VB3XLEAX | 2096235 |
| | Head A: female connector, M12, 4-pin, straight, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 10 m | YF2A14-100VB3XLEAX | 2096236 |
| - | Head A: female connector, M12, 4-pin, angled, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 2 m | YG2A14-020VB3XLEAX | 2095895 |
| | Head A: female connector, M12, 4-pin, angled, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 5 m | YG2A14-050VB3XLEAX | 2095897 |
| | Head A: female connector, M12, 4-pin, angled, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 10 m | YG2A14-100VB3XLEAX | 2095898 |
| | Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded | DOS-1204-G | 6007302 |
| | Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded | DOS-1204-W | 6007303 |

SICK AT A GLANCE

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For us, that is "Sensor Intelligence."

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