

IME12-04NNOZCOK

INDUCTIVE PROXIMITY SENSORS



IME12-04NNOZCOK | IME

INDUCTIVE PROXIMITY SENSORS

Ordering information

Included in delivery: BEF-MU-M12 (2)

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

Туре

IME12-04NNOZCOK



Illustration may differ



Detailed technical data

Features

| Housing | Cylindrical thread design |
|-----------------------------------|---------------------------|
| Housing | Short-body |
| Thread size | M12 x 1 |
| Diameter | Ø 12 mm |
| Sensing range S _n | 4 mm |
| Safe sensing range S _a | 3.24 mm |
| Installation type | Non-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 | 10 mA ²⁾ |
| Time delay before availability | ≤ 100 ms |
| Hysteresis | 5 % 15 % |

 $^{1)}$ At I_a max.

²⁾ Without load.

 $^{\rm (3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

Part no.

1040759

IME12-04NNOZCOK | IME

INDUCTIVE PROXIMITY SENSORS

| Reproducibility | < 2 % ^{3) 4)} |
|--|---|
| Temperature drift (of S _r) | ± 10 % |
| EMC | 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, PA 66 |
| Housing length | 46 mm |
| Thread length | 24 mm |
| Tightening torque, max. | ≤ 12 Nm |
| Items supplied | Mounting nut, brass, nickel-plated (2x) |
| UL File No. | NRKH.E181493 |

¹⁾ At I_a max.

²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

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" |
|--------|---------------------------------------|
| A | 12 mm |
| В | 24 mm |
| С | 12 mm |
| D | 12 mm |
| E | 8 mm |
| F | 32 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 |

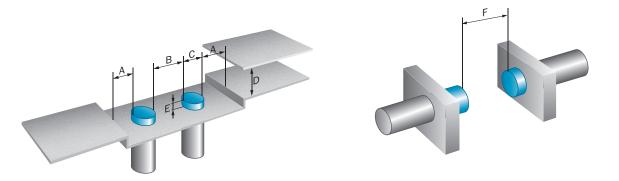
IME12-04NNOZCOK | IME

INDUCTIVE PROXIMITY SENSORS

| ECI@ss 8.0 | 27270101 |
|----------------|----------|
| ECI@ss 8.1 | 27270101 |
| ECI@ss 9.0 | 27270101 |
| ETIM 5.0 | EC002714 |
| ETIM 6.0 | EC002714 |
| UNSPSC 16.0901 | 39122230 |

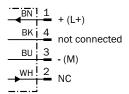
Installation note

Non-flush installation



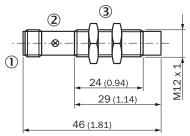
Connection diagram

Cd-008



Dimensional drawing (Dimensions in mm (inch))

IME12 Short-body housing, connector, non-flush



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

INDUCTIVE PROXIMITY SENSORS

Recommended accessories

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

| | Brief description | Туре | Part no. |
|------------------------------|--|------------------------|----------|
| Mounting brackets and plates | | | |
| | Mounting plate for M12 sensors, steel, zinc coated, without mounting hardware | BEF-WG-M12 | 5321869 |
| 40 | 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 re- inforced, 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 connecto | ors and cables | | |
| N | Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m | YF2A14- 020VB3XLEAX | 2096234 |
| | Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m | YF2A14- 050VB3XLEAX | 2096235 |
| | Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m | YF2A14- 100VB3XLEAX | 2096236 |
| * | Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m | YG2A14- 020VB3XLEAX | 2095895 |
| | Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m | YG2A14- 050VB3XLEAX | 2095897 |
| | Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads 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

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

