IME12-04BPSZW6KS56

SICK Sensor Intelligence.

INDUCTIVE PROXIMITY SENSORS

IME12-04BPSZW6KS56 | IME

INDUCTIVE PROXIMITY SENSORS



Ordering information

| Туре | Part no. |
|--------------------|----------|
| IME12-04BPSZW6KS56 | 1093752 |

Included in delivery: BEF-MU-M12 (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 | M12 x 1 |
| Diameter | Ø 12 mm |
| Sensing range S _n | 4 mm |
| Safe sensing range S _a | 3.24 mm |
| Installation type | Flush |
| Switching frequency | 2,000 Hz |
| Connection type | Cable, 3-wire, 10 m |
| Switching output | PNP |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP65 ¹⁾ |
| Special characteristic | Continuous thread with 2 LEDs |
| Items supplied | Mounting nut, brass, nickel-plated (2x) |

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.

 $^{2)}\,\mbox{Supply voltage U}_B$ 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 I _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 | ✓ |
| Reverse polarity protection | 1 |
| | |
| Power-up pulse protection | 1 |
| Power-up pulse protection Shock and vibration resistance | ✓ 30 g, 11 ms/10 Hz 55 Hz, 1 mm |
| | |
| Shock and vibration resistance | 30 g, 11 ms/10 Hz 55 Hz, 1 mm |
| Shock and vibration resistance Ambient operating temperature | 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C |
| Shock and vibration resistance Ambient operating temperature Housing material | 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C Brass, nickel-plated |
| Shock and vibration resistance Ambient operating temperature Housing material Sensing face material | 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C Brass, nickel-plated Plastic, PA 66 |
| Shock and vibration resistance Ambient operating temperature Housing material Sensing face material Housing length | 30 g, 11 ms/10 Hz 55 Hz, 1 mm -25 °C +75 °C Brass, nickel-plated Plastic, PA 66 44 mm |

¹⁾ At I_a max.

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

 $^{\rm 3)}$ 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" |
| В | 24 mm |
| С | 12 mm |
| D | 12 mm |
| F | 32 mm |
| Classifications | |
| ECLASS 5.0 | 27270101 |
| ECLASS 5.1.4 | 27270101 |
| | |

27270101

ECLASS 6.0

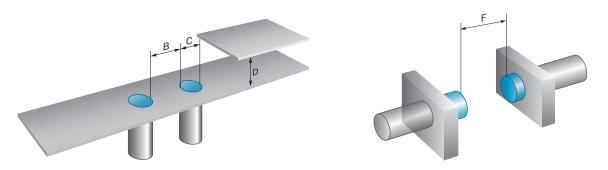
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| ECLASS 6.2 | 27270101 |
|----------------|----------|
| ECLASS 7.0 | 27270101 |
| ECLASS 8.0 | 27270101 |
| ECLASS 8.1 | 27270101 |
| ECLASS 9.0 | 27270101 |
| ECLASS 10.0 | 27270101 |
| ECLASS 11.0 | 27270101 |
| ECLASS 12.0 | 27274001 |
| ETIM 5.0 | EC002714 |
| ETIM 6.0 | EC002714 |
| ETIM 7.0 | EC002714 |
| ETIM 8.0 | EC002714 |
| UNSPSC 16.0901 | 39122230 |

Installation note

Flush installation



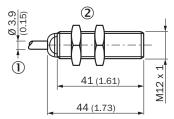
Connection diagram

Cd-001



INDUCTIVE PROXIMITY SENSORS

Dimensional drawing (Dimensions in mm (inch))



① Connection

② Fastening nuts (2x); width across 17, metal

Recommended accessories

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

| | Brief description | Туре | Part no. |
|---------------------------------|---|-------------|----------|
| Mounting brackets and plates | | | |
| ر [ر | 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 reinforced, mounting hardware included $% \left(\frac{1}{2}\right) =0$ | 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 |

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

