



DATA SHEET

IME12-06BPSZC0K

IME
Inductive proximity sensors

SICK Sensor Intelligence



Illustration may differ

INDUCTIVE PROXIMITY SENSORS

IME12-06BPSZC0K

ORDERING INFORMATION

Type	part no.
IME12-06BPSZC0K	1071218

Further device versions and accessories at www.sick.com/IME



DETAILED TECHNICAL DATA

FEATURES

Housing	Metric
Housing	Short-body
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S_n	6 mm
Safe sensing range S_a	4.86 mm
Installation type	Quasi-flush
Switching frequency	800 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Switching output detail	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Special features	Triple sensing range
Items supplied	Mounting nut, brass, nickel-plated (2x)

¹⁾ According to EN 60529.

MECHANICS/ELECTRONICS

Supply voltage	10 V DC ... 30 V DC
Ripple	$\leq 10 \%$
Voltage drop	$\leq 2 \text{ V}$ ¹⁾
Time delay before availability	$\leq 50 \text{ ms}$
Hysteresis	1 % ... 15 %
Reproducibility	$\leq 5 \%$ ²⁾ ³⁾
Temperature drift (of S_r)	$\pm 10 \%$
EMC	According to EN 60947-5-2
Continuous current I_a	$\leq 200 \text{ mA}$
No load current	$\leq 10 \text{ mA}$
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
Ambient temperature, storage	-25 °C ... +75 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PA 66
Housing length	46 mm
Thread length	29 mm
Tightening torque, max.	$\leq 12 \text{ Nm}$
UL File No.	NRKH.E181493

¹⁾ At I_a max.

²⁾ Supply voltage U_a and constant ambient temperature T_a .

³⁾ Of S_r .

SAFETY-RELATED PARAMETERS

MTTF ₀	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. 0.52
Copper (Cu)	Approx. 0.45
Brass (Br)	Approx. 0.54

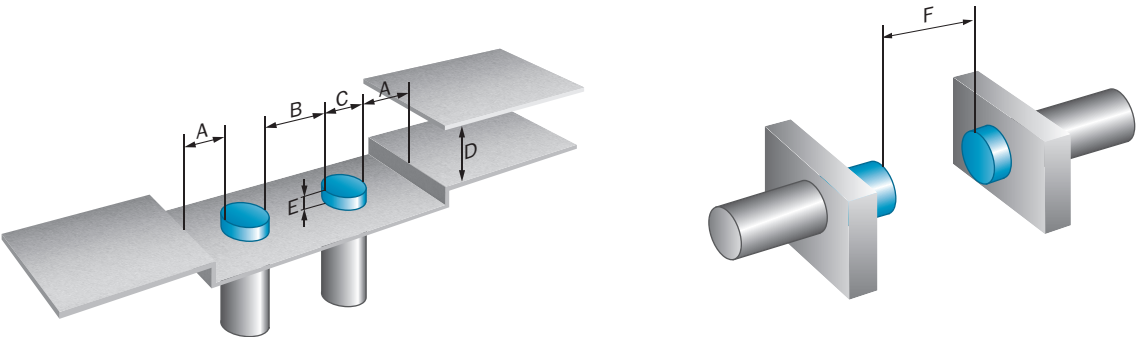
INSTALLATION NOTE

Remark	Associated graphic see "Installation"
A	6 mm
B	25 mm
C	12 mm
D	18 mm
E	2 mm
F	60 mm

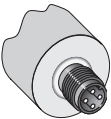
CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) ex-empt	✓
cULus certificate	✓

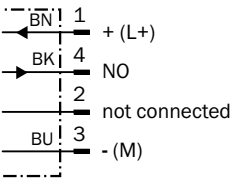
INSTALLATION NOTE QUASI-FLUSH INSTALLATION



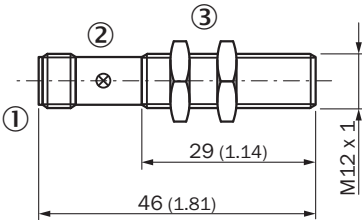
CONNECTION TYPE



CONNECTION DIAGRAM CD-007



DIMENSIONAL DRAWING IME12 SHORT-BODY HOUSING, CONNECTOR, FLUSH



- Dimensions in mm (inch)
- ① Connection
 - ② Display LED
 - ③ Fastening nuts (2x); width across 17, metal

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1071218



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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