

# IME12-04BPOZCOK

**INDUCTIVE PROXIMITY SENSORS** 



## IME12-04BPOZCOK | IME

INDUCTIVE PROXIMITY SENSORS

Ordering information

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

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

Туре

IME12-04BP0ZC0K



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 <sub>n</sub>	4 mm
Safe sensing range S <sub>a</sub>	3.24 mm
Installation type	Flush
Switching frequency	2,000 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>
Special characteristic	Extended operating temperature

<sup>1)</sup> 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 <sup>2)</sup>
Time delay before availability	≤ 100 ms

 $^{1)}$  At I<sub>a</sub> max.

<sup>2)</sup> Without load.

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

<sup>4)</sup> Of Sr.

Part no.

1040767

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Hysteresis	5 % 15 %
Reproducibility	< 2 % <sup>3) 4)</sup>
Temperature drift (of S <sub>r</sub> )	± 10 %
EMC	According to EN 60947-5-2
Continuous current l <sub>a</sub>	≤ 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	-30 °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.	≤ 12 Nm
Items supplied	Mounting nut, brass, nickel-plated (2x)
UL File No.	NRKH.E181493

<sup>1)</sup> At I<sub>a</sub> max.

<sup>2)</sup> Without load.

<sup>3)</sup> Ub and Ta constant.

<sup>4)</sup> Of Sr.

#### Safety-related parameters

MTTF <sub>D</sub>	1,735 years
DC <sub>avg</sub>	0%
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
c	12 mm
D	12 mm
F	32 mm
Classifications	
ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101

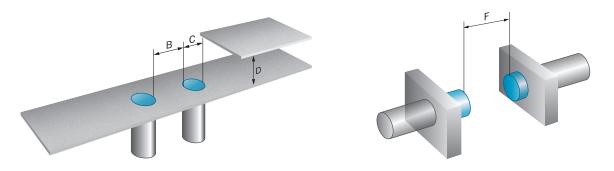
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INDUCTIVE PROXIMITY SENSORS

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
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

#### Installation note

Flush installation



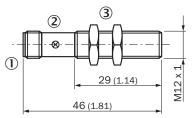
#### Connection diagram

Cd-008

 $\begin{array}{c|c} \hline BN & 1 \\ \hline BN & 1 \\ \hline BK & 4 \\ \hline BU & 3 \\ \hline WH & 2 \\ \hline NC \\ \hline \end{array}$ 

#### 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

## 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				
<b>N</b>	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	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:

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Online data sheet

