

# IME08-02BNSZT0S

IME

**INDUCTIVE PROXIMITY SENSORS** 



# Ordering information

Туре	Part no.
IME08-02BNSZT0S	1040878

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

Illustration may differ



## Detailed technical data

## **Features**

Housing	Cylindrical thread design
Housing	Standard
Thread size	M8 1
Diameter	Ø 8 mm
Sensing range S <sub>n</sub>	2 mm
Safe sensing range S <sub>a</sub>	1.62 mm
Installation type	Flush
Switching frequency	4,000 Hz
Connection type	Connector M8, 3-pin
Switching output	NPN
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>

<sup>&</sup>lt;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	$\leq$ 10 mA $^{2)}$
Time delay before availability	≤ 100 ms

 $<sup>^{1)}</sup>$  At I $_{\rm a}$  max.

<sup>&</sup>lt;sup>2)</sup> Without load.

 $<sup>^{</sup>m 3)}$  Ub and Ta constant.

<sup>&</sup>lt;sup>4)</sup> Of Sr.

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 I <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	-25 °C +75 °C
Housing material	Metal, Nickel-plated brass
Sensing face material	Plastic, Plastic
Housing length	50 mm
Thread length	34 mm
Tightening torque, max.	≤ 5 Nm
UL File No.	NRKH.E181493

 $<sup>^{1)}</sup>$  At  $\rm I_a$  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	16 mm
c	8 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

<sup>&</sup>lt;sup>2)</sup> Without load.

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

<sup>&</sup>lt;sup>4)</sup> Of Sr.

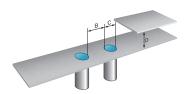
# IME08-02BNSZTOS | IME

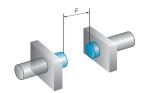
# INDUCTIVE PROXIMITY SENSORS

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

#### Installation note

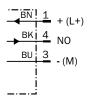
Flush installation





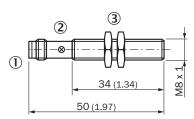
# Connection diagram

Cd-002



# Dimensional drawing (Dimensions in mm (inch))

IME08 Standard, connector, flush



- ① Connection
- ② Indication LED
- 3 Fastening nuts (2x); width across 13, metal

## Recommended accessories

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

mounting plate and s  Mounting brackets and plates	for mounting bars with 12 mm diameter, Zinc diecast, without screws  18 sensors, steel, zinc coated, without mounting hardware	BEF-KHS-KH3	5322626
mounting plate and s  Mounting brackets and plates	screws		5322626
	18 sensors, steel, zinc coated, without mounting hardware		
Mounting plate for M	8 sensors, steel, zinc coated, without mounting hardware		
wounting place for M		BEF-WG-M08	5321722
Mounting bracket for	M8 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M08	5321721
Terminal and alignment brackets			
Clamping block for ro forced, mounting har	bund sensors M8, without fixed stop, plastic (PA12), glass-fiber reindware included $$	BEF-KH-M08	2051477
Clamping block for ro forced, mounting han	ound sensors M8, with fixed stop, plastic (PA12), glass-fiber reindware included	BEF-KHF-M08	2051478
Plug connectors and cables			
Head B: open cable 6	ector, M8, 3-pin, straight, A-coded ends tor cable, PVC, unshielded, 2 m	YF8U13-020VA1XLEAX	2095860
Head B: open cable 6	ector, M8, 3-pin, straight, A-coded ends tor cable, PVC, unshielded, 5 m	YF8U13-050VA1XLEAX	2095884
Head B: open cable of	ector, M8, 3-pin, straight, A-coded ends tor cable, PVC, unshielded, 10 m	YF8U13-100VA1XLEAX	2095885
Head B: open cable 6	ector, M8, 3-pin, angled, A-coded ends tor cable, PVC, unshielded, 2 m	YG8U13-020VA1XLEAX	2096165
Head B: open cable 6	ector, M8, 3-pin, angled, A-coded ends tor cable, PVC, unshielded, 5 m	YG8U13-050VA1XLEAX	2096166
Head B: open cable 6	ector, M8, 3-pin, angled, A-coded ends tor cable, PVC, unshielded, 10 m	YG8U13-100VA1XLEAX	2096209
Head A: female conn Head B: - Cable: unshielded	ector, M8, 3-pin, straight	DOS-0803-G	7902077
Head A: female conn Head B: - Cable: unshielded	ector, M8, 3-pin, angled	DOS-0803-W	7902078

# 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

