

# IMB08-04NNOVU2K

IMB

**INDUCTIVE PROXIMITY SENSORS** 





## Ordering information

Туре	Part no.
IMB08-04NNOVU2K	1072703

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

Illustration may differ



#### Detailed technical data

#### **Features**

1 odtaroo	
Housing	Cylindrical thread design
Housing	Short-body
Thread size	M8 1
Diameter	Ø 8 mm
Sensing range S <sub>n</sub>	4 mm
Safe sensing range S <sub>a</sub>	3.24 mm
Installation type	Non-flush
Switching frequency	4,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP68 <sup>1)</sup> IP69K <sup>2)</sup>
Special features	Resistant against coolant lubricants, Optical adjustment indicator

<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 $^{2)}$
Hysteresis	3 % 20 %

<sup>1)</sup> At Ia max.

<sup>&</sup>lt;sup>2)</sup> According to ISO 20653:2013-03.

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

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

<sup>4)</sup> Of Sr

<sup>&</sup>lt;sup>5)</sup> Valid if toothed side of nut is used.

Reproducibility	≤ 2 % <sup>3) 4)</sup>
Temperature drift (of S <sub>r</sub> )	± 10 %
ЕМС	According to EN 60947-5-2
Continuous current I <sub>a</sub>	≤ 200 mA
Cable material	PUR
Short-circuit protection	<b>√</b>
Reverse polarity protection	<b>√</b>
Power-up pulse protection	✓
Shock and vibration resistance	$100\mathrm{g}/$ 11 ms / 1000 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz, 1 mm / 55 z 500 Hz / 15 g
Ambient operating temperature	-40 °C +100 °C
Housing material	Stainless steel, V2A (1.4305)
Sensing face material	Plastic, LCP
Housing length	32 mm
Thread length	24 mm
Tightening torque, max.	Typ. 14 Nm <sup>5)</sup>
UL File No.	E181493

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

#### Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.69
Aluminum (AI)	Approx. 0.37
Copper (Cu)	Approx. 0.28
Brass (Br)	Approx. 0.4

#### Installation note

Remark	Associated graphic see "Installation"
Α	8 mm
В	18 mm
c	8 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

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

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

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

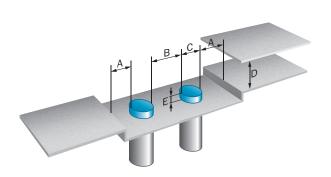
<sup>5)</sup> Valid if toothed side of nut is used.

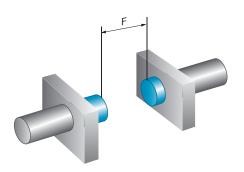
# IMB08-04NNOVU2K | IMB

## 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

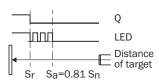
#### Installation note





## Adjustments possible

Normally closed



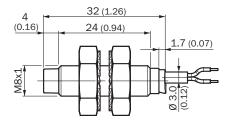
## Connection diagram

cd-003



### Dimensional drawing (Dimensions in mm (inch))

IMB08 Short-body housing, cable, non-flush



#### Recommended accessories

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

	Brief description	Туре	Part no.
Universal bar clamp systems			
6	Plate N11N for universal clamp bracket, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322626), mounting hardware	BEF-KHS-N11N	2071081
Mounting brad	ckets and plates		
	Mounting plate for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M08	5321722
	Mounting bracket for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M08	5321721
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-GN	6028357
	Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-WN	6028358
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-GN	6028359
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded For 2 cable connections	STE-1204-TN	6028360

## 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

