

IMB08-04NNSVU2S

INDUCTIVE PROXIMITY SENSORS



IMB08-04NNSVU2S | IMB

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMB08-04NNSVU2S	1072689

Included in delivery: BEF-MU-M08N (1)

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

Illustration may differ



Detailed technical data

Features

Housing	Metric	
Housing	Standard design	
Thread size	M8 x 1	
Diameter	Ø 8 mm	
Sensing range S _n	4 mm	
Safe sensing range S _a	3.24 mm	
Installation type	Non-flush	
Switching frequency	4,000 Hz	
Connection type	Cable, 3-wire, 2 m	
Switching output	NPN	
Output function	NO	
Electrical wiring	DC 3-wire	
Enclosure rating	IP68 ¹⁾ IP69K ²⁾	
Special features	Resistant against coolant lubricants, Visual adjustment indicator, Temperature resistance	
Special applications	Zones with coolants and lubricants, Mobile machines, Difficult application conditions	
Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)	

¹⁾ According to EN 60529.

²⁾ According to ISO 20653:2013-03.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %

¹⁾ At I_a max.

 $^{2)}\,\mbox{Supply voltage U}_B$ and constant ambient temperature Ta.

³⁾ Of Sr.

 $^{\rm 4)}$ When using the non-toothed side of the nut.

 $^{5)}\ensuremath{\,\text{Valid}}$ if toothed side of nut is used.

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¹⁾ At I_a max.

 $^{\rm 2)}$ Supply voltage U_B and constant ambient temperature Ta.

³⁾ Of Sr.

⁴⁾ When using the non-toothed side of the nut.

⁵⁾ Valid if toothed side of nut is used.

Safety-related parameters

MTTF _D	1,971 years
DC _{avg}	0 %
Reduction factors	
Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.69
Aluminum (Al)	Approx. 0.37
Copper (Cu)	Approx. 0.28
Brass (Br)	Approx. 0.4
Installation note	
Remark	Associated graphic see "Installation"
A	8 mm
В	18 mm

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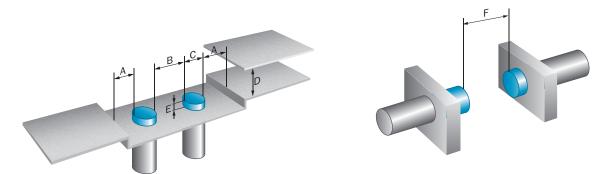
C	8 mm
D	12 mm
E	8 mm
F	32 mm

Classifications

	07070/0/
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
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

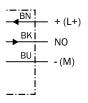
Non-flush installation



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Connection diagram

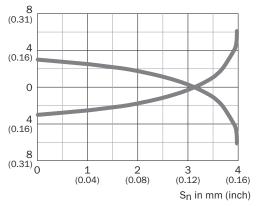
Cd-001



Response diagram

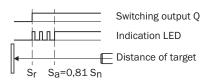
Response diagram

Distance in mm (inch)



Functional principle

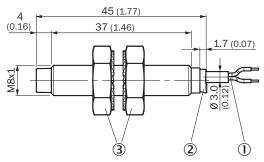
Installation aid



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Dimensional drawing (Dimensions in mm (inch))

IMB08 Standard, cable, non-flush



① Connection

② Display LED

③ Fastening nuts (2 x); width across 13, stainless steel V2A

Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brackets 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	
Others				
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Application: Hygienic and washdown zones 	DOS-1204-GN	6028357	
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Application: Hygienic and washdown zones 	DOS-1204-WN	6028358	
	 Connection type head A: Male connector, M12, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Application: Hygienic and washdown zones 	STE-1204-GN	6028359	
\$	 Connection type head A: Male connector, M12, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For 2 cable connections Application: Hygienic and washdown zones 	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."

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