

# IMB08-1B5PSVU3KS10

IMB

**INDUCTIVE PROXIMITY SENSORS** 



#### Ordering information

Туре	Part no.
IMB08-1B5PSVU3KS10	1110678

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

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

Illustration may differ



#### Detailed technical data

#### **Features**

Teatures	
Housing	Cylindrical thread design
Housing	Short-body
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S <sub>n</sub>	1.5 mm
Safe sensing range S <sub>a</sub>	1.215 mm
Installation type	Flush
Switching frequency	4,000 Hz
Connection type	Cable, 3-wire, 3 m
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68 <sup>1)</sup> IP69K <sup>2)</sup>
Special features	Resistant against coolant lubricants, Temperature resistance
Special applications	Zones with coolants and lubricants, Mobile machines, Difficult application conditions
Special characteristic	With ferrules without plastic collar
Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)

 $<sup>^{1)}</sup>$  According to EN 60529.

#### Mechanics/electronics

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

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

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

<sup>3)</sup> Of St

 $<sup>^{</sup>m 4)}$  When using the non-toothed side of the nut.

 $<sup>^{5)}\,\</sup>mbox{Valid}$  if toothed side of nut is used.

00 Hz /

 $<sup>^{1)}</sup>$  At  $I_a$  max.

### Safety-related parameters

MTTF <sub>D</sub>	1,971 years
DC <sub>avg</sub>	0 %
T <sub>M</sub> (mission time)	20 years

#### **Reduction factors**

Note	The values are reference values which may vary	
St37 steel (Fe)	1	
Stainless steel (V2A, 304)	Approx. 0.74	
Aluminum (AI)	Approx. 0.43	
Copper (Cu)	Approx. 0.33	
Brass (Br)	Approx. 0.46	

<sup>&</sup>lt;sup>2)</sup> Supply voltage U<sub>B</sub> and constant ambient temperature Ta.

<sup>3)</sup> Of Sr.

<sup>&</sup>lt;sup>4)</sup> When using the non-toothed side of the nut.

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

#### Installation note

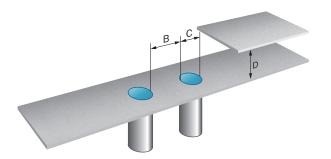
Remark	Associated graphic see "Installation"
В	6.5 mm
C	8 mm
D	6 mm
F	16 mm

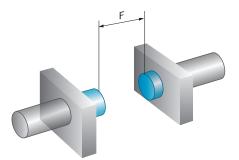
#### Classifications

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

#### Flush installation





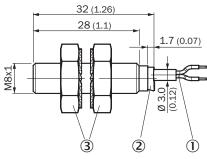
#### Connection diagram

Cd-452



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

IMB08 Short-body housing, cable, flush



- ① Connection
- ② Display LED
- ③ Fastening nuts (2 x); width across 13, stainless steel V2A

#### Recommended accessories

Other models and accessories  $\Rightarrow$  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
Plug connectors and cables			
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: ≤ 0.75 mm²</li> <li>Application: Hygienic and washdown zones</li> </ul>	DOS-1204-GN	6028357
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, angled</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: ≤ 0.75 mm²</li> <li>Application: Hygienic and washdown zones</li> </ul>	DOS-1204-WN	6028358

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# INDUCTIVE PROXIMITY SENSORS

Brief description	Туре	Part no.
Connection type head A: Male connector, M12, 4-pin, straight 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 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

#### Recommended services

Additional services → www.sick.com/IMB

	Туре	Part no.
Function Block Factory		
<ul> <li>Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&amp;R. More information on the FBF can be found <a href="https://fbf.cloud.sick.com" target="_blank">here</a>.</li> <li>Note: You can configure your function block at <a href="https://fbf.cloud.sick.com" target="_blank">Function Block Factory.</a> As a login please use your SICK ID.</li> </ul>	Function Block Factory	On request

## 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

