

IHP03-0B8PSVU2K

IMM

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IHP03-0B8PSVU2K	6058033

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

Illustration may differ







Detailed technical data

Features

Housing	Cylindrical
Housing	Short-body
Diameter	Ø 3 mm
Pressure resistance	≤ 150 bar ¹⁾
Sensing range S _n	0.8 mm
Safe sensing range S _a	0.648 mm
Installation type	Flush
Switching frequency	8,000 Hz
Connection type	Cable, 3-wire, 2 m ²⁾
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68 IP69K

 $^{^{1)}}$ Only sensing face.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	\leq 2 V $^{2)}$
Time delay before availability	≤ 10 ms
Hysteresis	1 % 10 %
Reproducibility	≤ 2 % ³⁾
Temperature drift (of S _r)	± 10 %
ЕМС	EN 60947-5-2

 $^{^{1)}}$ Of V_{S} .

 $^{^{2)}}$ Do not bend below 0 °C.

²⁾ With Ia = 100 mA.

 $^{^{\}rm 3)}$ Supply voltage U_B and constant ambient temperature Ta.

	IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 2)
Continuous current I _a	≤ 100 mA
Cable material	PUR
Conductor size	0.055 mm ²
Cable diameter	Ø 2.6 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Ceramics, ZrO2
Housing length	12 mm
UL File No.	NRKH.E191603

 $^{^{1)}}$ Of V_S .

Safety-related parameters

MTTF _D	186 years
DC _{avg}	0%
T _M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (AI)	Approx. 0.5
Copper (Cu)	Approx. 0.45
Brass (Br)	Approx. 0.6

Installation note

Remark	Associated graphic see "Installation"
Α	1 mm
В	2 mm
С	3 mm
D	3 mm
E	0 mm
F	7 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

 $^{^{2)}}$ With Ia = 100 mA.

 $^{^{\}rm 3)}$ Supply voltage U_{B} and constant ambient temperature Ta.

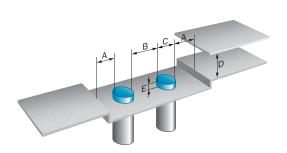
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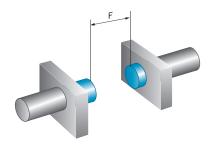
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ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

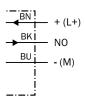
Quasi-flush installation





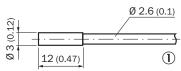
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

Ultrashort, flush, cable, IHP03



① Connection

Recommended accessories

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

	Brief description	Туре	Part no.
erminal and alignment brackets			
	Plastic (PA6), without mounting hardware	BEF-KH-M03	2101064
Others			
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 020VA1XLEAX	2095860
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 050VA1XLEAX	2095884
0	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 100VA1XLEAX	2095885
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 020VA1XLEAX	2096165
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 050VA1XLEAX	2096166
	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 100VA1XLEAX	2096209
	 Connection type head A: Male connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	DOS-0803-G	7902077
	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Description: Unshielded Connection systems: Solder connection Permitted cross-section: ≤ 0.25 mm² 	DOS-0803-W	7902078

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	Brief description	Туре	Part no.
P. 60	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Male connector, M12, 3-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 020VA1M2A13	2096605
F 60	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Male connector, M12, 3-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 050VA1M2A13	2096606

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