

IH04-0B8NS-VW1

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IH04-0B8NS-VW1	6020149

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

Illustration may differ







Detailed technical data

Features

Housing	Cylindrical smooth housing
Housing	Standard design
Diameter	Ø 4 mm
Sensing range S _n	0.8 mm
Safe sensing range S _a	0.648 mm
Installation type	Flush
Switching frequency	5,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾

 $^{^{1)}}$ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	≤ 2 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % 10 %
Reproducibility	≤ 1.5 % ³⁾
Temperature drift (of S _r)	± 10 %
EMC	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 2)

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

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

Continuous current I _a	≤ 200 mA
Cable material	PVC
Conductor size	0.14 mm ²
Cable diameter	Ø 3.5 mm
Short-circuit protection	✓
Reverse polarity 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	Plastic, POM
Housing length	25 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. 0.55

Installation note

Remark	Associated graphic see "Installation"
A	0 mm
В	1 mm
c	4 mm
D	2.4 mm
E	0 mm
F	7 mm

Classifications

eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101
eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
eCl@ss 7.0	27270101
eCl@ss 8.0	27270101
eCl@ss 8.1	27270101

²⁾ With Ia = 200 mA.

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

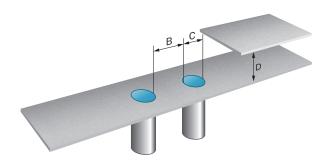
IH04-0B8NS-VW1 | IMM

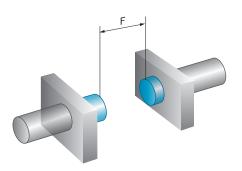
INDUCTIVE PROXIMITY SENSORS

eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101
eCl@ss 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

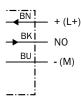
Flush installation





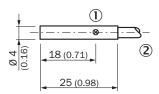
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

Standard-body, flush, cable



- ① Connection
- ② Display LED

Recommended accessories

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

	Brief description	Туре	Part no.	
Plug connecto	Plug connectors and cables			
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13- 020VA1XLEAX	2095860	
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U13- 050VA1XLEAX	2095884	
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF8U13- 100VA1XLEAX	2095885	
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U13- 020VA1XLEAX	2096165	
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG8U13- 050VA1XLEAX	2096166	
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG8U13- 100VA1XLEAX	2096209	
10	Head A: female connector, M8, 3-pin, straight, A-coded Head B: male connector, M12, 3-pin, straight, A-coded Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13- 020VA1M2A13	2096605	
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: male connector, M12, 3-pin, straight, A-coded Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U13- 050VA1M2A13	2096606	
	Head A: female connector, M8, 3-pin, straight Cable: unshielded	DOS-0803-G	7902077	
	Head A: female connector, M8, 3-pin, angled Cable: unshielded	DOS-0803-W	7902078	
	Head A: male connector, M8, 3-pin, straight Cable: unshielded	STE-0803-G	6037322	

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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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