

IH06-04NPO-VTK

INDUCTIVE PROXIMITY SENSORS



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Ordering information

Туре	Part no.
IH06-04NPO-VTK	6025884

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical smooth housing
Housing	Short-body Short-body
Diameter	Ø 6.5 mm
Sensing range S _n	4 mm
Safe sensing range S _a	3.24 mm
Installation type	Non-flush
Switching frequency	2,500 Hz
Connection type	Connector M8, 3-pin
Switching output	PNP
Output function	NC
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	≤ 10 % ¹⁾
Voltage drop	\leq 2 V $^{2)}$
Current consumption	\leq 10 mA $^{3)}$
Time delay before availability	≤ 50 ms
Hysteresis	1 % 20 %
Reproducibility	≤ 5 % ^{4) 5)}
Temperature drift (of S _r)	± 10 %
ЕМС	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2)

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

²⁾ With Ia = 200 mA.

³⁾ Without load.

 $^{^{4)}}$ Ub = 20 V DC ... 30 V DC, Ta = 23 °C \pm 5 °C.

⁵⁾ Of Sr.

	IEC 61000-4-4: (Testlevel 3)
Continuous current I _a	≤ 200 mA
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse 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, Stainless steel (V2A, 304)
Sensing face material	Plastic, Plastic
Housing length	40 mm
UL File No.	NMFT2.E175606

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

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.77
Aluminum (AI)	Approx. 0.47
Copper (Cu)	Approx. 0.42
Brass (Br)	Approx. 0.52

Installation note

Remark	Associated graphic see "Installation"
A	6.5 mm
В	13 mm
С	6.5 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
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

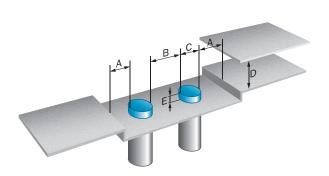
²⁾ With Ia = 200 mA.

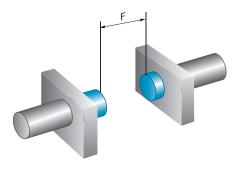
³⁾ Without load.

⁴⁾ Ub = 20 V DC ... 30 V DC, Ta = 23 °C ± 5 °C.

⁵⁾ Of Sr.

Installation note



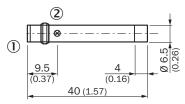


Connection diagram

cd-004

Dimensional drawing (Dimensions in mm (inch))

Short-body, non-flush, connector



- ① Connection
- ② Indication LED

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connecto	ors 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

	Brief description	Туре	Part no.
	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
3	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
Ro Pio	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 Head B: - Cable: unshielded	DOS-0803-G	7902077
	Head A: female connector, M8, 3-pin, angled Head B: - Cable: unshielded	DOS-0803-W	7902078
	Head A: male connector, M8, 3-pin, straight Head B: - Cable: unshielded	STE-0803-G	6037322

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