

IH06-02BNS-VTK

IMM

INDUCTIVE PROXIMITY SENSORS



INDUCTIVE PROXIMITY SENSORS

Ordering information



Туре	Part no.
IH06-02BNS-VTK	6025878

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical smooth housing
Housing	Short-body
Diameter	Ø 6.5 mm
Sensing range S _n	2 mm
Safe sensing range S _a	1.62 mm
Installation type	Flush
Switching frequency	3,000 Hz
Connection type	Connector M8, 3-pin
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	≤ 10 % ¹⁾
Voltage drop	≤ 2 V ²⁾
Current consumption	\leq 10 mA $^{3)}$
Time delay before availability	≤ 50 ms
Hysteresis	1 % 20 %

 $^{^{1)}}$ 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.

Reproducibility	≤ 5 % ^{4) 5)}
Temperature drift (of S _r)	± 10 %
ЕМС	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) 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. 0.6
Aluminum (AI)	Approx. 0.17
Copper (Cu)	Approx. 0.1
Brass (Br)	Approx. 0.25

Installation note

Remark	Associated graphic see "Installation"
Α	3.25 mm
В	6.5 mm
c	6.5 mm
D	6 mm
E	4 mm
F	16 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

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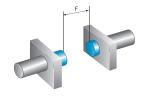
INDUCTIVE PROXIMITY SENSORS

ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

Installation note

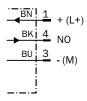
Quasi-flush installation





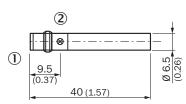
Connection diagram

cd-002



Dimensional drawing (Dimensions in mm (inch))

Short-body, flush, connector



- ① Connection
- ② Indication 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	
No No	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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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.

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