

IH06-02BPS-VTK

INDUCTIVE PROXIMITY SENSORS



Ordering information



Туре	Part no.
IH06-02BPS-VTK	6025877

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	Quasi-flush
Switching frequency	3,000 Hz
Connection type	Connector M8, 3-pin
Switching output	PNP
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	\leq 2 V $^{2)}$
Time delay before availability	≤ 50 ms
Hysteresis	1 % 20 %
Reproducibility	≤ 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %

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

 $^{^{2)}}$ With Ia = 200 mA.

 $^{^{}m 3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

EMC	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 V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, POM
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
С	6.5 mm
D	6 mm
E	4 mm
F	16 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
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101

²⁾ With Ia = 200 mA.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

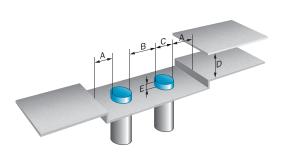
IH06-02BPS-VTK | IMM

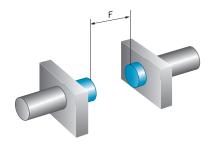
INDUCTIVE PROXIMITY SENSORS

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

Quasi-flush installation





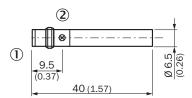
Connection diagram

Cd-002



Dimensional drawing (Dimensions in mm (inch))

Short-body, flush, connector



- 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			
1	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 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	
Terminal and alignment brackets				
	Plastic (PA6), without mounting hardware	BEF-KH-M06	2101067	

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