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DATA SHEET

# IH06-02BPS-VT1

IMM  
Inductive proximity sensors

**SICK** Sensor Intelligence

## INDUCTIVE PROXIMITY SENSORS

## IH06-02BPS-VT1

## ORDERING INFORMATION

Type	part no.
IH06-02BPS-VT1	7900179

Further device versions and accessories at [www.sick.com/IMM](http://www.sick.com/IMM)



Illustration may differ

## DETAILED TECHNICAL DATA

## FEATURES

Housing	Cylindrical
Housing	Standard design
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	5,000 Hz
Connection type	Connector M8, 3-pin
Switching output	PNP
Switching output detail	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>

<sup>1)</sup> According to EN 60529.

**MECHANICS/ELECTRONICS**

Supply voltage	10 V DC ... 30 V DC
Ripple	$\leq 10\%$ <sup>1)</sup>
Voltage drop	$\leq 2\text{ V}$ <sup>2)</sup>
Time delay before availability	$\leq 50\text{ ms}$
Hysteresis	1% ... 20%
Reproducibility	$\leq 5\%$ <sup>3)</sup> <sup>4)</sup>
Temperature drift (of S <sub>s</sub> )	$\pm 10\%$
EMC	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 3)
Continuous current I <sub>a</sub>	$\leq 200\text{ mA}$
Short-circuit 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	50 mm
UL File No.	NMFT2.E175606

<sup>1)</sup> Or V<sub>s</sub>.<sup>2)</sup> With I<sub>a</sub> = 200 mA.<sup>3)</sup> Supply voltage U<sub>s</sub> and constant ambient temperature T<sub>a</sub>.<sup>4)</sup> Or S<sub>r</sub>.**REDUCTION FACTORS**

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.6
Aluminum (Al)	Approx. 0.17
Copper (Cu)	Approx. 0.1
Brass (Br)	Approx. 0.25

**INSTALLATION NOTE**

Remark	Associated graphic see "Installation"
A	3.25 mm
B	6.5 mm
C	6.5 mm
D	6 mm
E	4 mm
F	16 mm

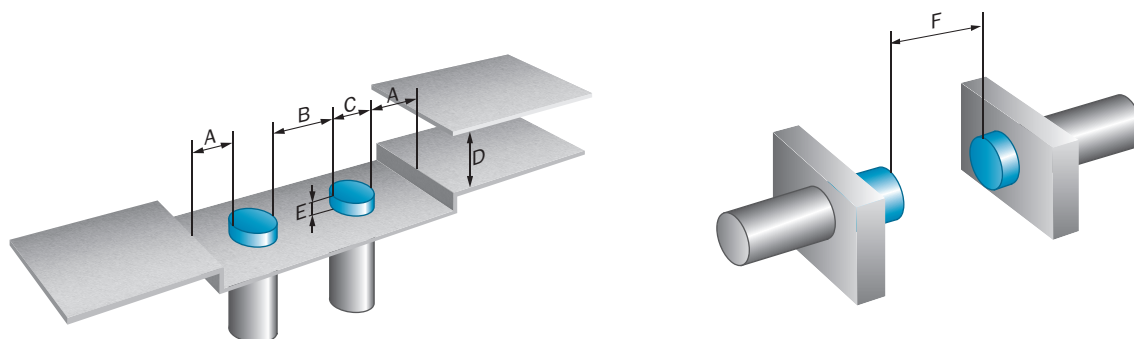
**CERTIFICATES**

EU declaration of conformity	✓
UK declaration of conformity	✓
Moroccan declaration of conformity	✓

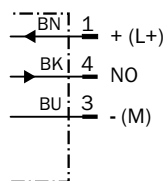
China RoHS



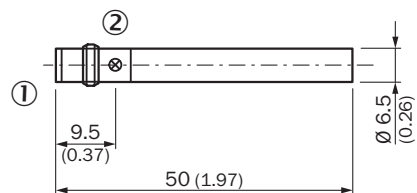
**INSTALLATION NOTE QUASI-FLUSH INSTALLATION**



**CONNECTION DIAGRAM CD-002**



**DIMENSIONAL DRAWING STANDARD-BODY, FLUSH, CONNECTOR**



Dimensions in mm (inch)

- ① Connection
- ② Display LED

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at [www.sick.com/7900179](http://www.sick.com/7900179)



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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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