



DATA SHEET

IH06-02BPS-VW1

IMM
Inductive proximity sensors

SICK Sensor Intelligence



Illustration may differ

INDUCTIVE PROXIMITY SENSORS

IH06-02BPS-VW1

ORDERING INFORMATION

Type	part no.
IH06-02BPS-VW1	7900177

Further device versions and accessories at www.sick.com/IMM



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	Cable, 3-wire, 2 m
Switching output	PNP
Switching output detail	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	$\leq 10\%$ ¹⁾
Voltage drop	$\leq 2\text{ V}$ ²⁾
Time delay before availability	$\leq 50\text{ ms}$
Hysteresis	1% ... 20 %
Reproducibility	$\leq 5\%$ ³⁾ ⁴⁾
Temperature drift (of S _r)	$\pm 10\%$
EMC	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 3)
Continuous current I _a	$\leq 200\text{ mA}$
Cable material	PVC
Conductor size	0.14 mm ²
Cable diameter	Ø 3.1 mm
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	45 mm
UL File No.	NMFT2.E175606

¹⁾ Of V_s.²⁾ With I_a = 200 mA.³⁾ Supply voltage U_s and constant ambient temperature T_a.⁴⁾ Of S_r.**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

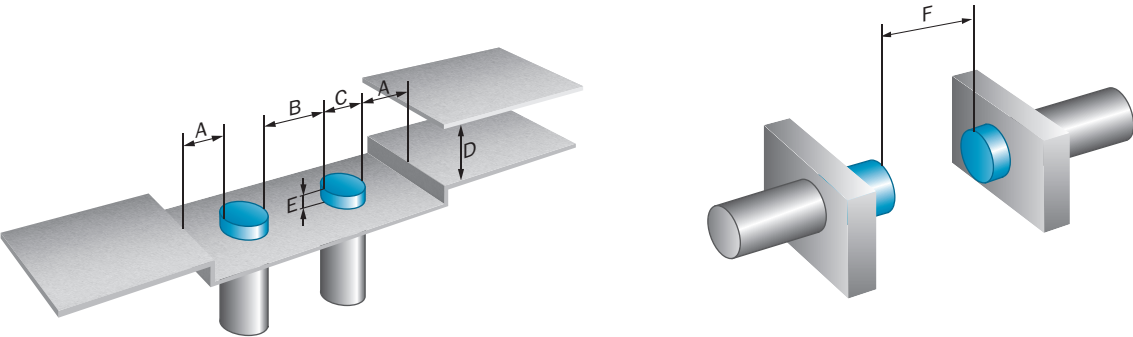
Remark	Associated graphic see "Installation"
A	3.25 mm
B	6.5 mm
C	6.5 mm
D	6 mm
E	4 mm
F	16 mm

CERTIFICATES

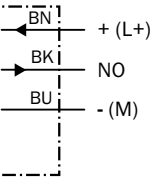
EU declaration of conformity	✓
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UK declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓

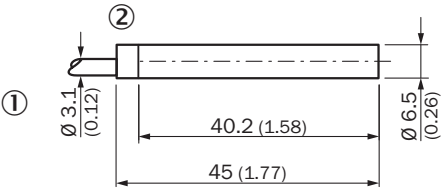
INSTALLATION NOTE QUASI-FLUSH INSTALLATION



CONNECTION DIAGRAM CD-001



DIMENSIONAL DRAWING STANDARD-BODY, FLUSH, CABLE



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/7900177

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

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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