



Inductive proximity sensors Cylindrical smooth housing, IH06

IH06-1B5NS-VWK



Model Name > **IH06-1B5NS-VWK**
Part No. > **6020166**



At a glance

- Operating distance of up to 4 mm
- High switching frequency
- Short-circuit protection (pulsed)
- IP 67 enclosure rating
- Stainless steel housing
- LED status indicator

Your benefits

- Reliable detection of high-speed processes increases machine throughput
- High-visibility indicator LED ensures simple monitoring of the operational state
- High resistance to shock and vibrations increases service life and reduces maintenance and replacement costs



Features

Housing:	Cylindrical
Diameter:	6.5 mm
Sensing range Sn:	1.5 mm
Assured sensing range Sa:	1.215 mm
Installation type:	Flush
Switching frequency:	5,000 Hz
Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Connection type:	Cable, 3-wire, 2 m
Housing:	Short-body

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 20 % ¹⁾
Voltage drop:	≤ 2 V ²⁾
Power consumption:	≤ 10 mA ³⁾
Time delay before availability:	≤ 10 ms
Hysteresis:	≤ 10 %

Repeatability:	$\leq 1.5\%$ ⁴⁾
Temperature drift (% of Sr):	$\pm 10\%$
EMC:	According to EN 60947-5-2
Output current Ia:	$\leq 200\text{ mA}$
Cable material:	PVC
Conductor cross-section:	0.14 mm^2
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	-
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 70 °C
Housing material:	Stainless steel, Stainless steel (V2A, 304)
Housing cap material:	Plastic, PA 66
Housing length:	16 mm

¹⁾ Of V_S ²⁾ With $I_a = 200\text{ mA}$ ³⁾ Without load ⁴⁾ $U_b = 20\text{ V DC} \dots 30\text{ V DC}$, $T_a = 23\text{ °C} \pm 5\text{ °C}$

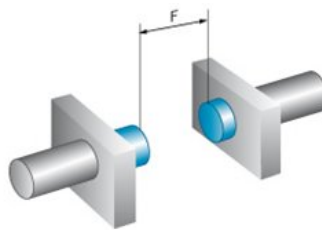
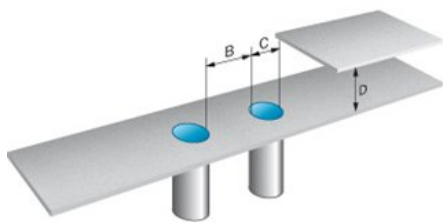
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.45
Brass (Br):	Ca. 0.5

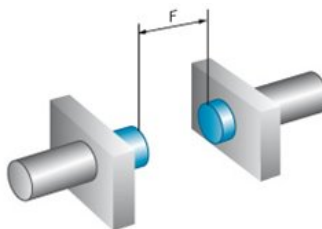
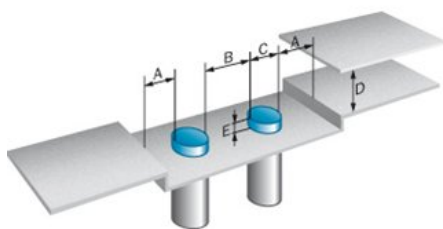
Installation note

A:	1,75 mm
B:	3 mm
C:	6,5 mm
D:	4.5 mm
E:	0 mm
F:	12 mm
Remark:	Associated graphic see "Installation"

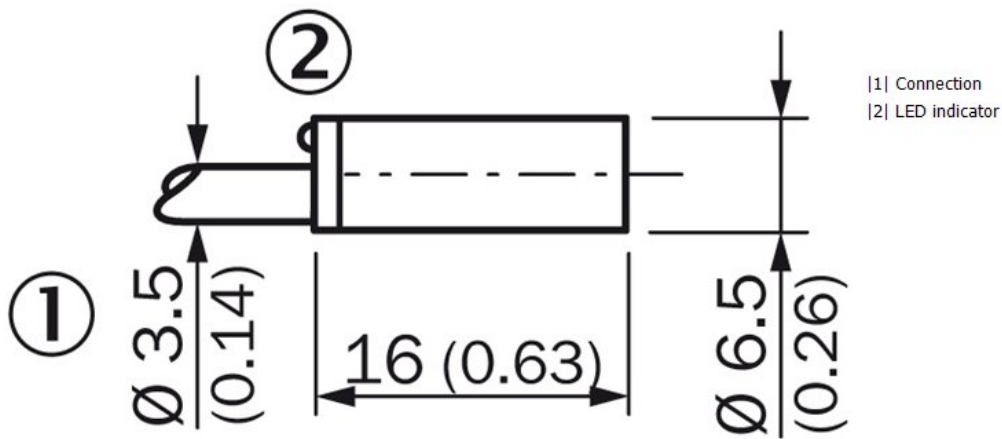
Installation note



Installation note non-flush installation

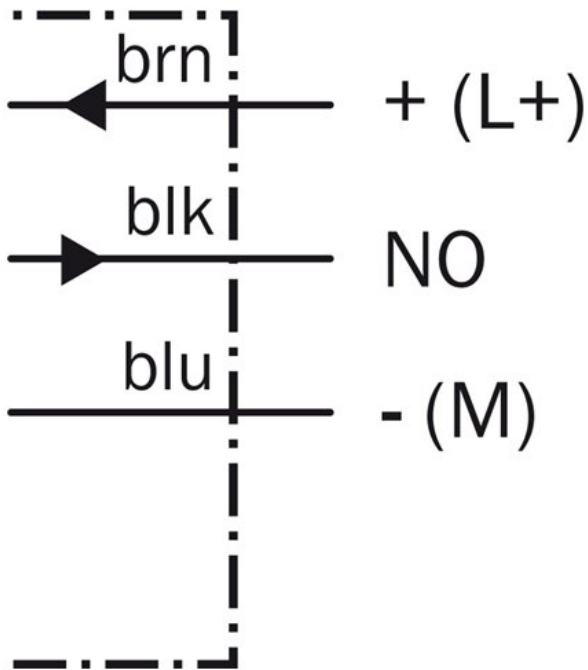


Dimensional drawing

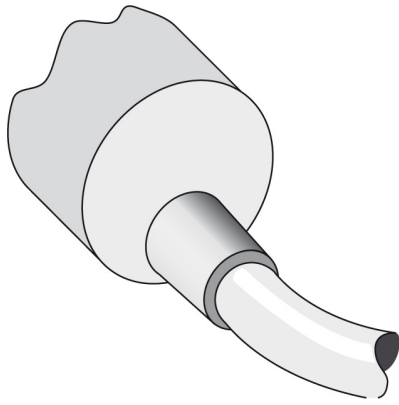


All dimensions in mm (inch)

Connection diagram



Connection type



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