

ONLINE DATA SHEET
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Inductive proximity sensors
Cylindrical smooth housing, IH06

IH06-1B5NS-VTK



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Inductive proximity sensors
Cylindrical smooth housing, IH06

Model Name > IH06-1B5NS-VTK
Part No. > 6020170



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

Design:	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]
Electrical connection:	Connector M8, 3-pin
Housing:	Short-body

[1] According to EN 60529

Mechanics/electronics

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

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Repeatability:	≤ 1.5 % [4]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 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 temperature operation:	-25 °C ... 70 °C
Housing material:	Stainless steel, Stainless steel (V2A, 304)
Housing cap material:	Plastic, PA 66
Housing length:	29 mm

[1] Of V_S [2] With Ia = 200 mA [3] Without load [4] Ub = 20 V DC ... 30 V DC, Ta = 23 °C ± 5 °C

Reduction factors

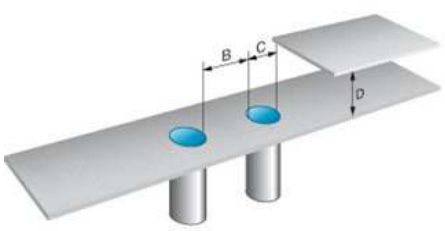
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.45
Brass (Br):	Ca. 0.5

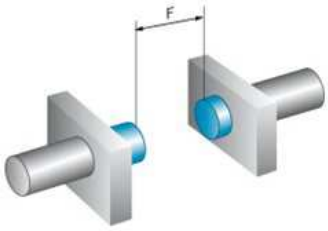
Installation note

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"

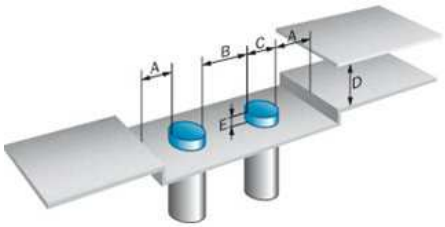
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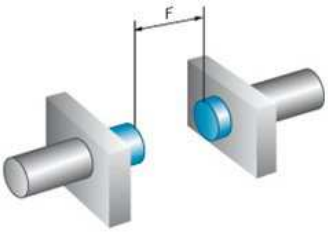
Installation note





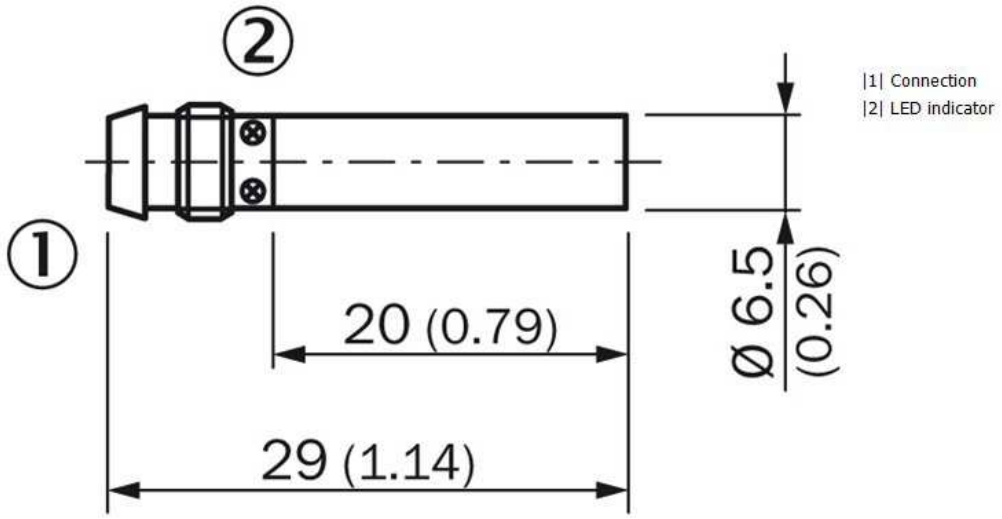
Installation note non-flush installation





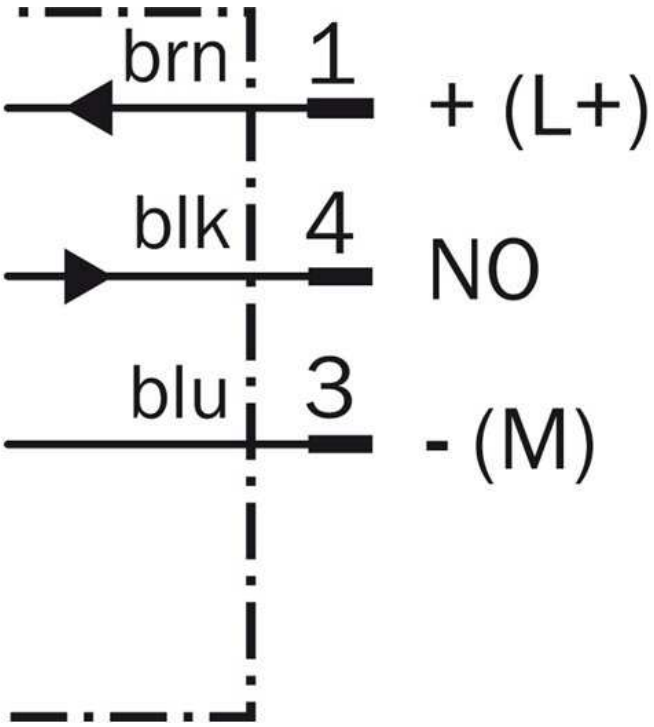
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Dimensional drawing



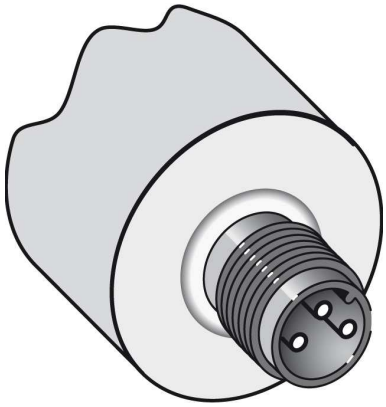
All dimensions in mm (inch)

Connection diagram



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Connection type



A4 4c int43

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