

ONLINE DATA SHEET
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Inductive proximity sensors
Cylindrical smooth housing, IH06

IH06-04NPS-VW1

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Inductive proximity sensors
Cylindrical smooth housing, IH06

Model Name > IH06-04NPS-VW1
Part No. > 7900181



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:	4 mm
Assured sensing range Sa:	3.24 mm
Installation type:	Non-flush
Switching frequency:	1,800 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 [1]
Electrical connection:	Cable, 3-wire, 2 m
Housing:	Standard

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 % [1]
Voltage drop:	≤ 1.8 V [2]
Power consumption:	≤ 10 mA [3]
Time delay before availability:	≤ 50 ms
Hysteresis:	1 % ... 20 %

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Repeatability::	≤ 5 % [4) 5)]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 200 mA
Cable material:	PVC
Conductor cross-section:	0.14 mm²
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, PBT
Housing length:	45 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 [5)] Of Sr

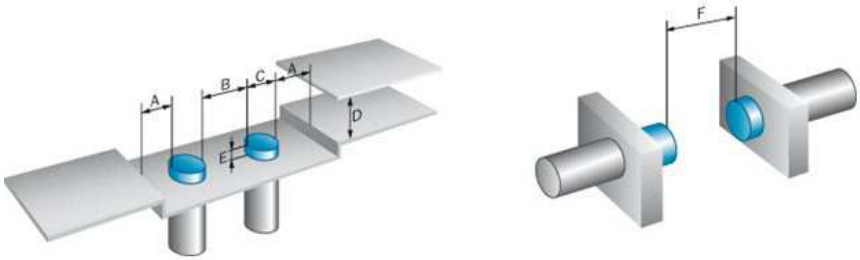
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.77
Copper (Cu):	Ca. 0.42
Aluminum (Al):	Ca. 0.47
Brass (Br):	Ca. 0.52

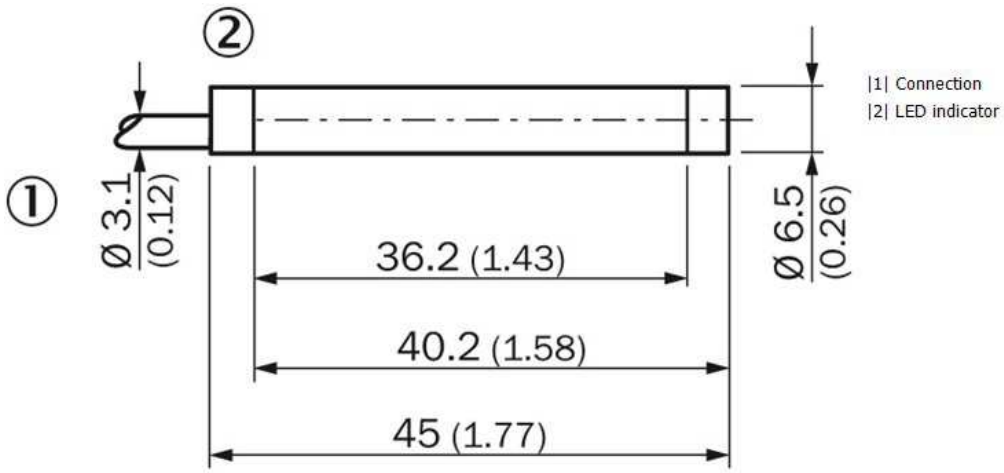
Installation note

A:	6,5 mm
B:	13 mm
C:	6,5 mm
D:	12 mm
E:	6 mm
F:	32 mm
Remark:	Associated graphic see "Installation"

Installation note non-flush installation



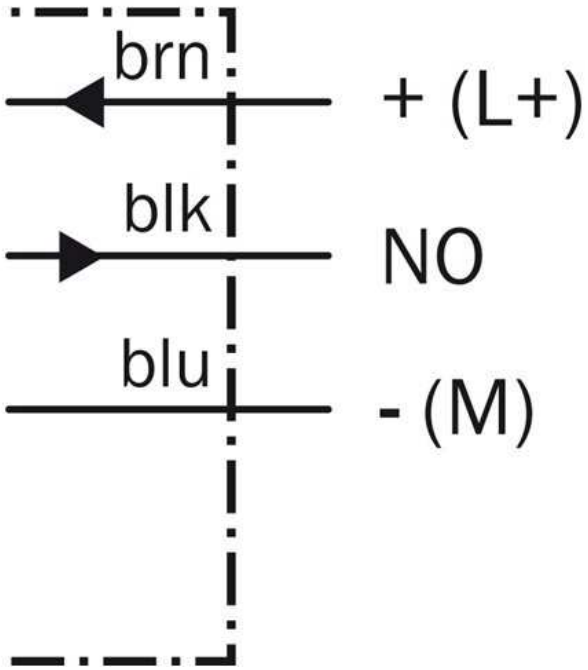
Dimensional drawing



All dimensions in mm (inch)

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Connection diagram



Connection type



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