



Inductive proximity sensors  
Cylindrical smooth housing, IH20

IH20-10NUS-KU0



**Model Name** > [IH20-10NUS-KU0](#)  
**Part No.** > [7902130](#)



**At a glance**

- Operating distance up to 10 mm
- IP 67 enclosure rating
- Plastic housing
- 20 ... 250 V AC/DC operating voltage

**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:	20 mm
Sensing range Sn:	10 mm
Assured sensing range Sa:	8.1 mm
Installation type:	Non-flush
Switching frequency::	25 Hz, 70 Hz <sup>1) 2)</sup>
Output function:	NO
Electrical wiring:	AC/DC 2-wire
Enclosure rating:	IP 67 <sup>3)</sup>
Electrical connection:	Cable, 2-wire, 2 m
Housing:	Standard

<sup>1)</sup> AC <sup>2)</sup> DC <sup>3)</sup> According to EN 60529

**Mechanics/electronics**

Supply voltage:	20 V AC/DC ... 250 V AC/DC
Voltage drop:	≤ 6 V (DC), ≤ 6.5 V (AC)
Hysteresis:	1 % ... 15 %
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2 As per EN 55011, class B
Output current Ia:	≤ 100 mA (DC), ≤ 250 mA (AC (+80 °C)), ≤ 350 mA (AC (+50 °C))
Output current:	5 mA
Off-state current:	≤ 0.8 mA (DC 24 V), ≤ 1.3 mA (AC 110 V), ≤ 2.5 mA (AC 250 V)

Short-time withstand current:	2.2 A <sup>1)</sup>
Cable material:	PVC
Conductor cross-section:	0.5 mm <sup>2</sup>
Cable diameter:	5.6 mm
Short-circuit protection <sup>2)</sup> :	-
Reverse polarity protection:	-
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient temperature operation:	-25 °C ... +80 °C
Housing material:	Plastic
Housing cap material:	Plastic, PBT
Housing length:	77 mm

<sup>1)</sup> 20 ms/0.5 Hz <sup>2)</sup> Miniature fuse as per IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow)

### Reduction factors

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Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.7
Copper (Cu):	Ca. 0.2
Aluminum (Al):	Ca. 0.3
Brass (Br):	Ca. 0.4

### Installation note

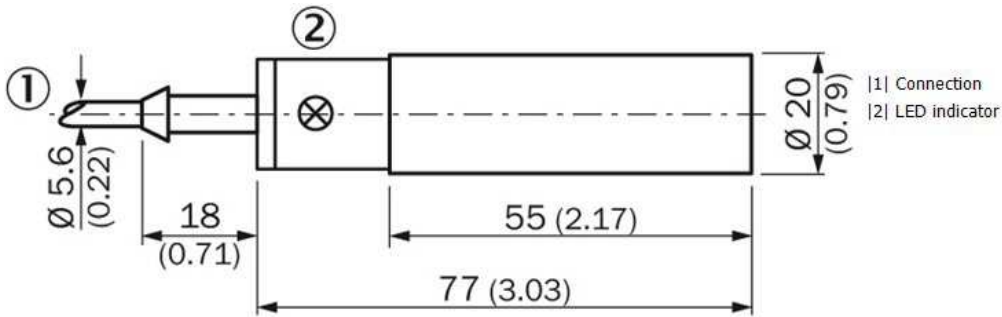
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A:	20 mm
B:	40 mm
C:	20 mm
D:	30 mm
E:	20 mm
F:	80 mm
Remark:	Associated graphic see "Installation"

## Installation note

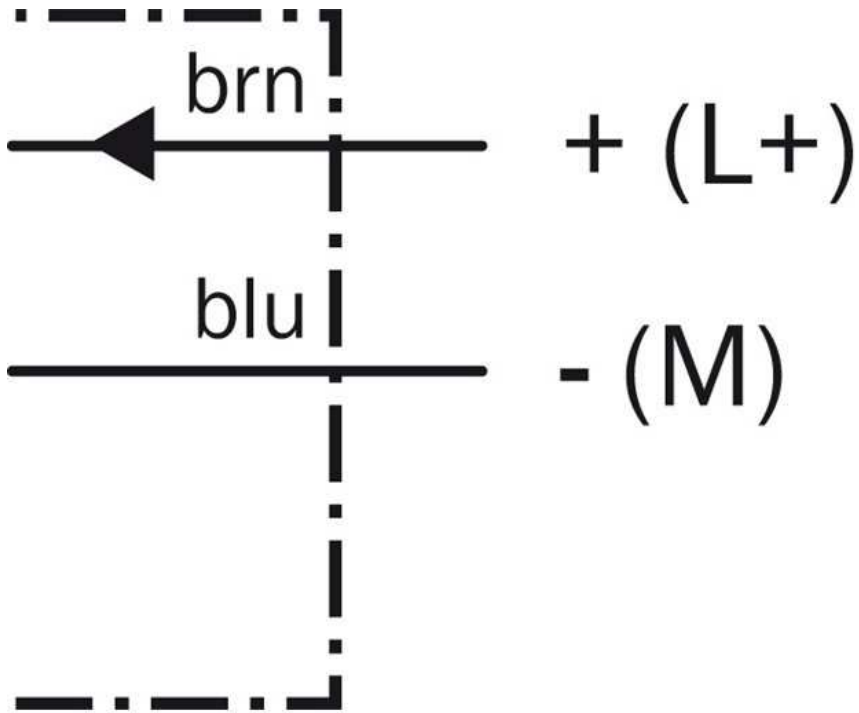


## Dimensional drawing

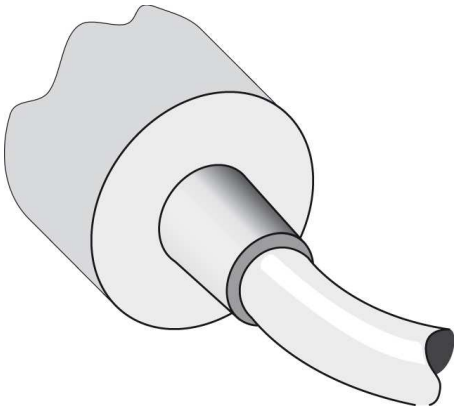


All dimensions in mm (inch)

Connection diagram



Connection type



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