



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 ^{1) 2)}
Output function:	NO
Electrical wiring:	AC/DC 2-wire
Enclosure rating:	IP 67 ³⁾
Connection type:	Cable, 2-wire, 2 m
Housing:	Standard

¹⁾ AC ²⁾ DC ³⁾ 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 ¹⁾
Cable material:	PVC
Conductor cross-section:	0.5 mm ²
Cable diameter:	5.6 mm
Short-circuit protection ²⁾ :	-
Reverse polarity protection:	-
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... +80 °C
Housing material:	Plastic
Housing cap material:	Plastic, PBT
Housing length:	77 mm

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

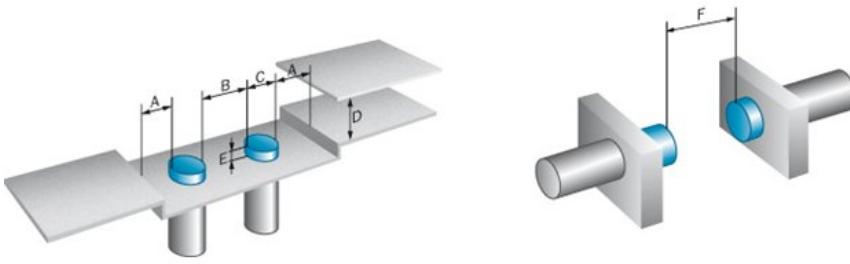
Reduction factors

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

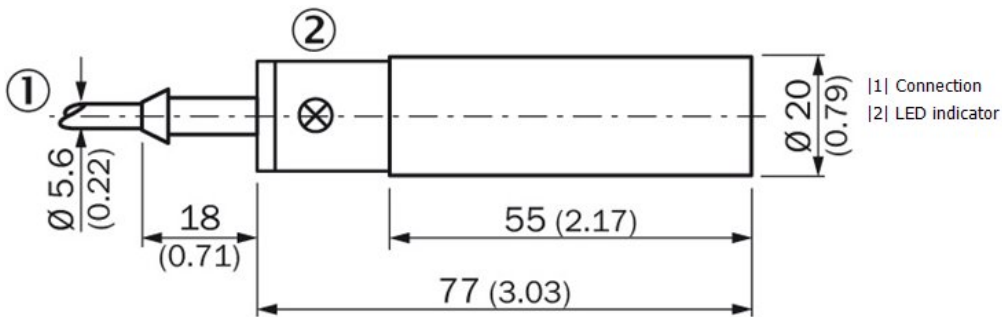
Installation note

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

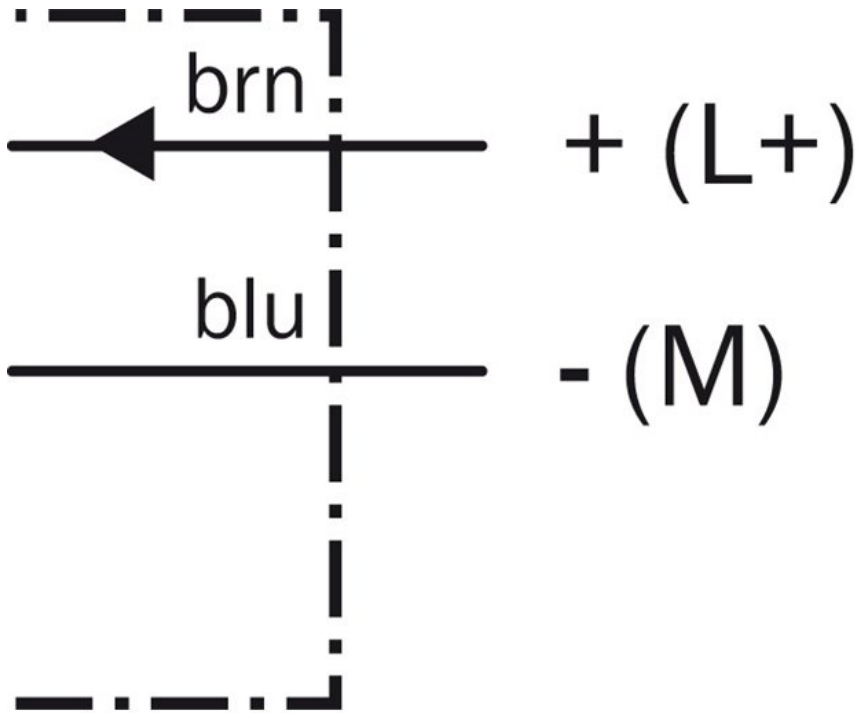


Dimensional drawing

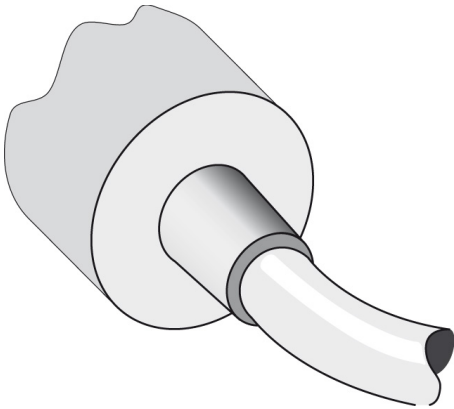


All dimensions in mm (inch)

Connection diagram



Connection type



Australia

Phone +61 3 9457 0600
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail marketing@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail info@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6881000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886 2 2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 88 65 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 (800) 325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com