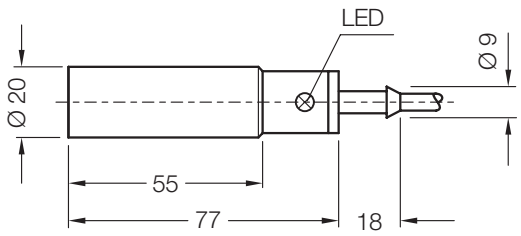
Inductive proximity sensors

IH 20 series, sensing range 10 mm
AC / DC 2-wire, plastic housing

Dimensions in mm



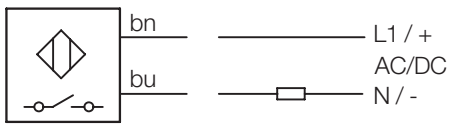
Features

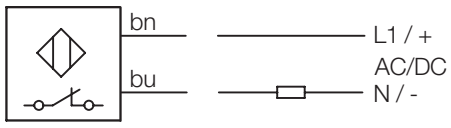
- Can be installed non-flush in metal
- Broad operating voltage range in AC and DC
- Normally open function
- Plastic housing
- Enclosure rating IP 67
- LED status indicator

Accessories

- Mounting clamps incl.

Connection diagram





Wire colour		Assignment
bn	brown	L1 / +
bu	blue	N / -

Electrical and mechanical data

Operating voltage U_b	20 ... 250 V AC / DC
Voltage drop U_d (at I_a max.)	≤ 6.5 V AC / ≤ 6 V DC
Continuous current I_a	≤ 350 mA AC (... + 50 °C) ≤ 250 mA AC (... + 80 °C) ≤ 100 mA DC
Peak current I_K	2.2 A (20 ms/0.5 Hz)
Min. load current	5 mA
Residual current	≤ 2.5 mA (250 V AC) ≤ 1.3 mA (110 V AC) ≤ 0.8 mA (24 V DC)
Time delay before availability t_v	approx. 45 ms
Hysteresis H	1% - 15% of s_r
Repeatability R (U_b and T_a constant)	≤ 10% of s_r
Temperature drift	± 10% of s_r
EMC	to EN 60 947-5-2
Wire-break protection	-
Short-circuit protection (pulsed)	-
Reverse polarity protection	-
Power-up pulse suppression	yes
Enclosure rating to EN 60529	IP 67
Protection class	⧈
Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
Ambient temperature T_a	- 25 ... + 80 °C
Housing material	Plastic
Connection cable	PUR-PVC, 2 x 0.5 mm^2

Selection table

Sensing range s_n mm	Installation in metal	Output function	Switching frequency f in Hz	Connection	Type	Order number
10			25 (AC) / 70 (DC)	Cable 2 m	IH20-10NUS-KU0	7902130