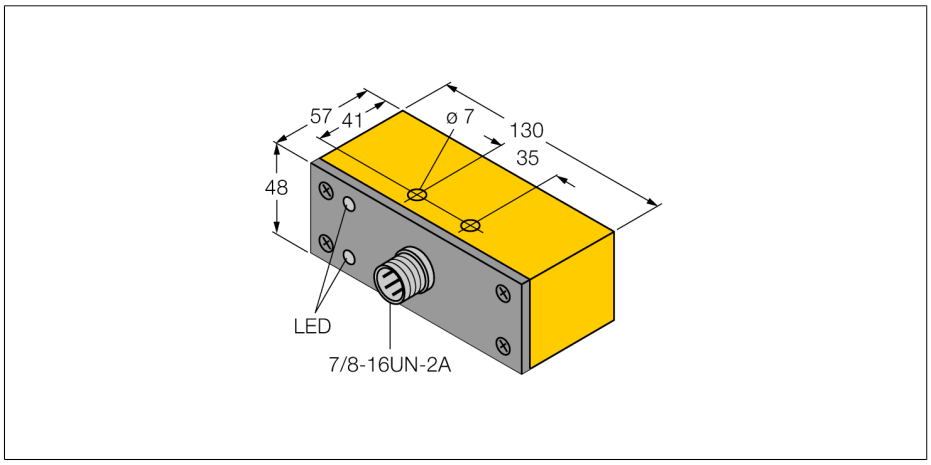
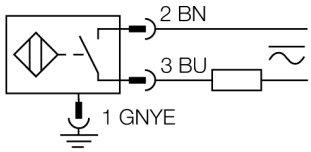
Inductive sensor
NI30-Q130-ADZ30X2-B1131



- **Rectangular, height 48 mm**
- **Active face in front**
- **Plastic PBT**
- **AC 2-wire, 20…250 VAC**
- **DC 2-wire, 10…300 VDC**
- **NO contact**
- **Connector, 7/8"**

Wiring diagram



Type code	NI30-Q130-ADZ30X2-B1131
Ident no.	42100

Rated operating distance Sn	30 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C

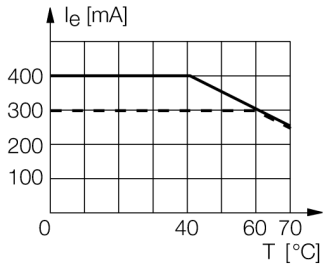
Operating voltage	20…250 VAC
Operating voltage	10…300VDC
AC rated operational current	≤ 400 mA
DC rated operational current	≤ 300 mA
Frequency	≥ 50…≤ 60 Hz
Residual current	≤ 1.7 mA
Rated insulation voltage	≤ 1.5 kV
Surge current	≤ 3 A (≤ 20 ms max. 5 Hz)
Short-circuit protection	yes/ latching
Voltage drop at I_e	≤ 6 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	2-wire, NO contact
Smallest operating current I_m	≤ 3 mA
Switching frequency	0.03 kHz

Design	rectangular, Q130
Dimensions	130x 57x 48 mm
Housing material	Plastic, PBT
Connection	male, 7/8"
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C

Operating voltage	LED green
Switching state	● red

Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.



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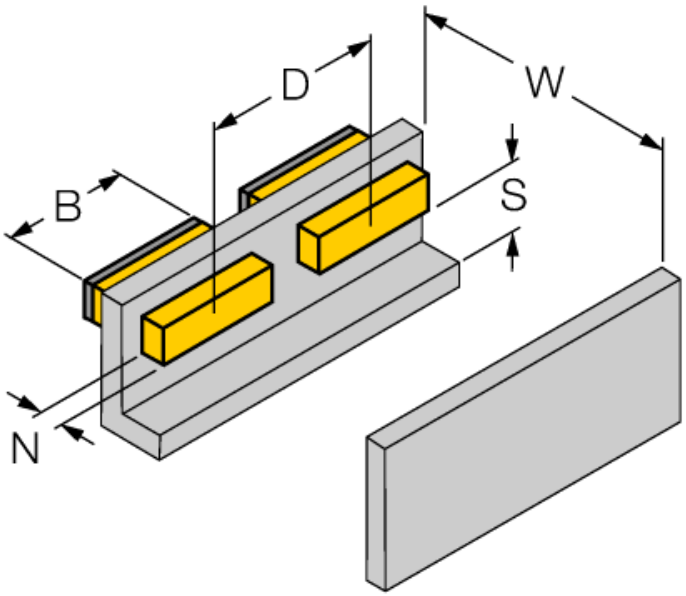
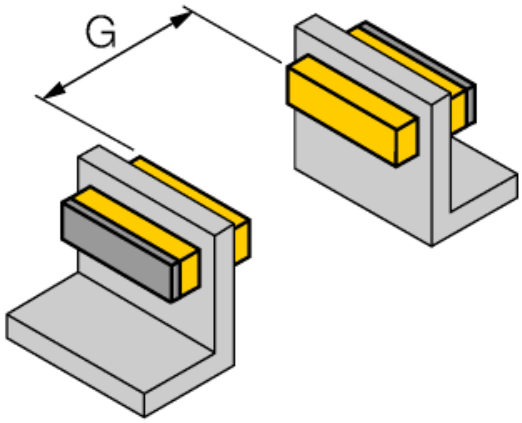
Distance D	180 mm
Distance W	3 x Sn
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Width of the active face B	130 mm

Flush mounting of the sensor in metal.





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