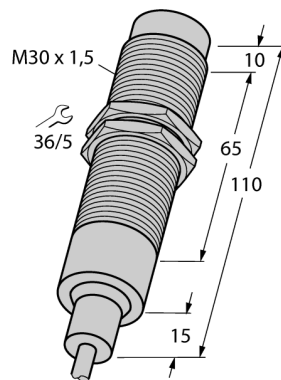


Inductive sensor **with extended temperature range** **NI15-EM30-AP6/S907**

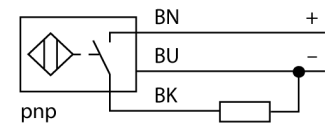
TURCK

Industrial
Automation



- Threaded barrel, M30 x 1.5
- Stainless steel, 1.4571
- For temperatures up to +160°C
- 3-wire DC, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram

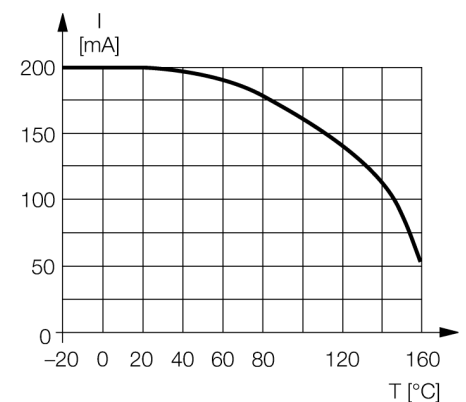


Functional principle

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.

Special versions are available for ambient temperatures between -60°C and +250°C.

derating curve

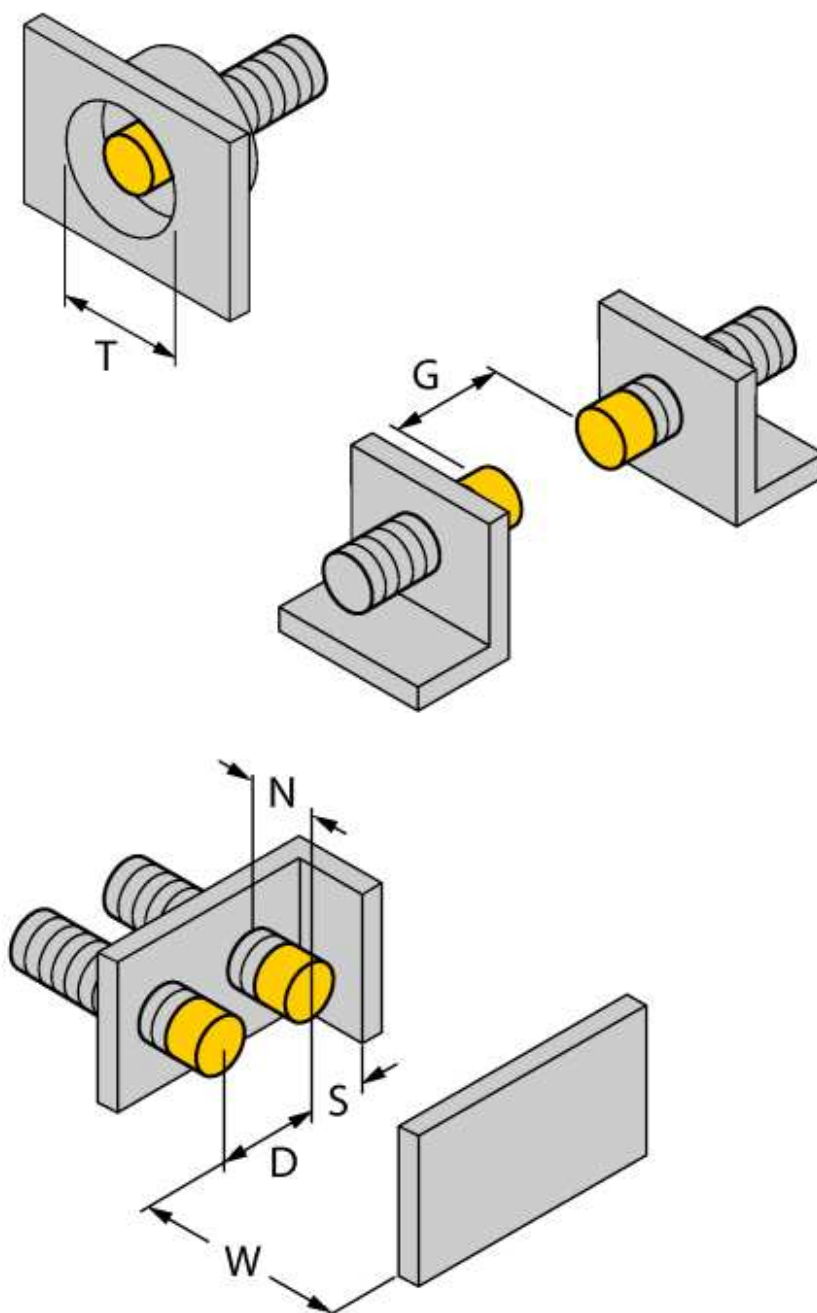


Type code	NI15-EM30-AP6/S907
Ident no.	4617412
Rated operating distance Sn	15 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperaturdrift	20 %
Hysteresis	3...15 %
Ambient temperature	-25...+160 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
Rated operational current	see derating curve
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I _N	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.2 kHz
Design	threaded barrel, M30 x 1.5
Dimensions	110 mm
Housing material	Metal, V4A (1.4571)
Material active face	Plastic, PEEK
End cap	Plastic, PTFE
Max. tightening torque housing nut	75 Nm
Connection	cable
Cable quality	3.7 mm, PTFE, FEP, 2 m
Cable cross section	3 x 0.34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 / IP69K

Inductive sensor with extended temperature range NI15-EM30-AP6/S907

Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn

Diameter of the active area B	Ø 30 mm
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**Inductive sensor
with extended temperature range
NI15-EM30-AP6/S907**

Accessories

Type code	Ident no.	Description	Dimension drawing
MW-30	6945005	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	