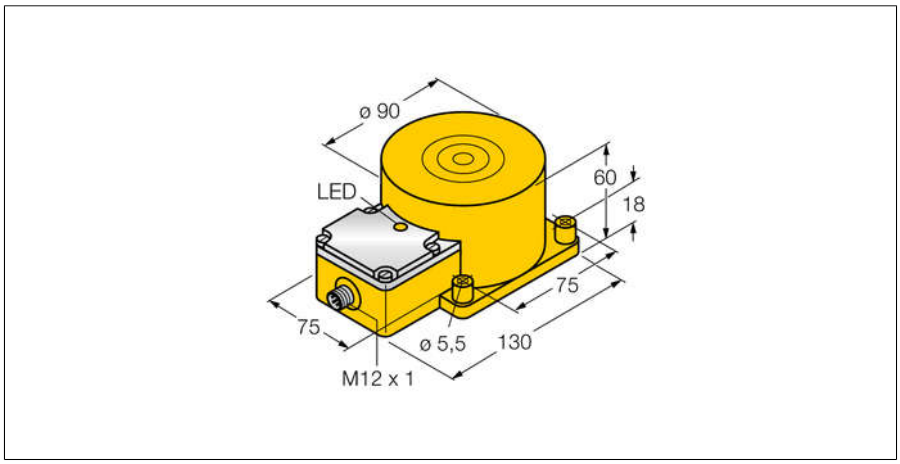
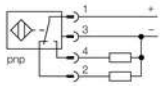
Inductive sensor
NI100U-K90SR-VP4X2-H1141

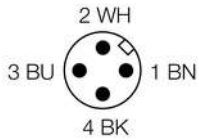


- **Rectangular, height 60 mm**
- **Plastic, PBT-GF30-V0**
- **Factor 1 for all metals**
- **Increased switching distance**
- **Protection class IP68**
- **Resistant to magnetic fields**
- **Extended temperature range**
- **Auto-compensation protects against pre-attenuation**
- **One-sided fitting possible**
- **4-wire DC, 10…65 VDC**
- **Changeover contact, PNP output**
- **Male M12 x 1**

Type code	NI100U-K90SR-VP4X2-H1141
Ident no.	1625844
Rated operating distance Sn	100 mm
Mounting condition	non-flush, partially embeddable
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3…15 %
Ambient temperature	-30…+85 °C
Operating voltage	10…65VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes
Voltage drop at I_e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, changover contact, PNP
Protection class	⧈
Switching frequency	0.25 kHz
Design	rectangular, K90SR
Dimensions	130 x 75 x 60 mm
Housing material	plastic, PBT
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED green
Switching state	LED yellow

Wiring diagram





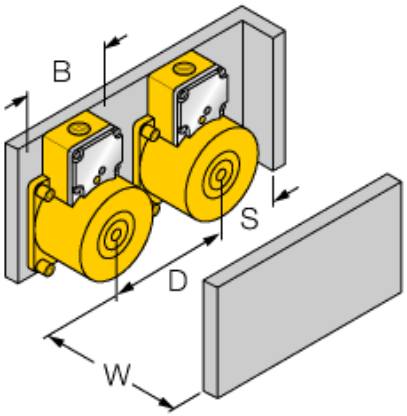
Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

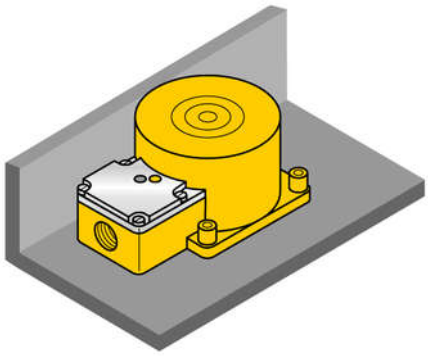
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Distance D	270 mm
Distance W	300 mm
Distance S	1 x B
Distance G	600 mm
Distance A	100 mm
Distance C	200 mm

Width of the active face B	90 mm

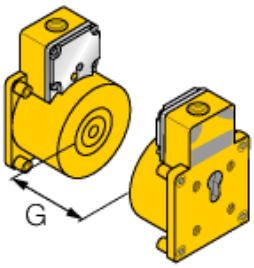


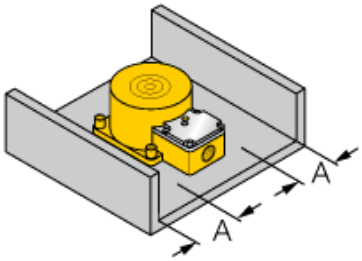
1-side flush mounting

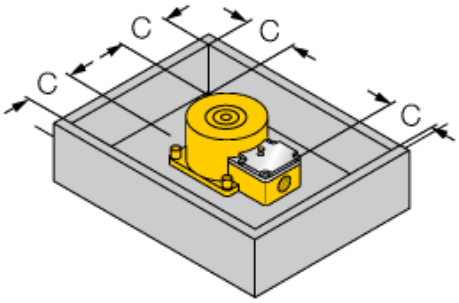


1-side mounting:

Sr = 70 mm







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