


- 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
- DC 4-wire, 10...65 VDC
- Changeover contact, PNP output
- Terminal chamber

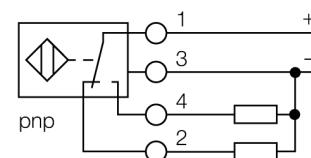
Type code	NI100U-K90SR-VP4X2
Ident-No.	1625834
Ident-No (TUSA)	M1625834
Rated switching distance Sn	100 mm
Mounting conditions	non-flush, partially embeddable
Assured switching distance	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	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, complementary, PNP
Protective insulation	
Switching frequency	0.25 kHz

Construction	Rectangular, K90SR
Dimensions	130 x 75 x 60 mm
Housing material	plastic, PBT
Connection	terminal chamber
Clamping ability	≤ 2.5 mm ²
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
Included in delivery	cable gland

Wiring Diagram

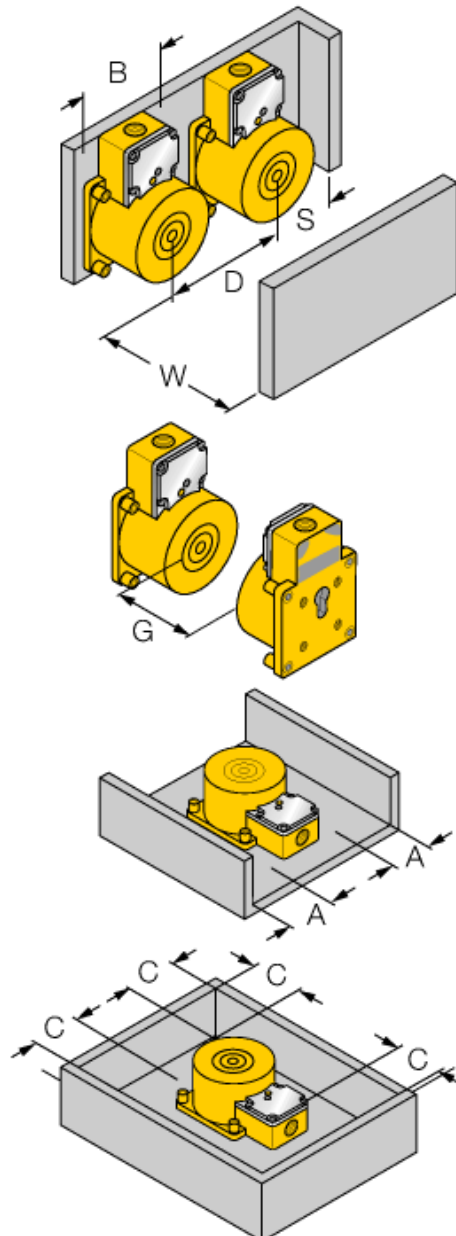


Functional principle

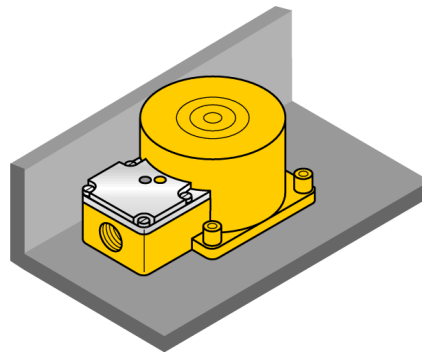
Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Distance D	3 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
Distance A	1 x Sn
Distance C	2 x Sn

Width of the active face B	90 mm
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1-side flush mounting



1-side mounting:

Sr = 70 mm