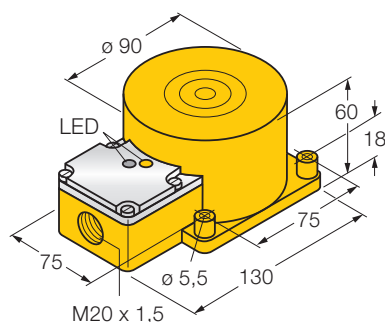
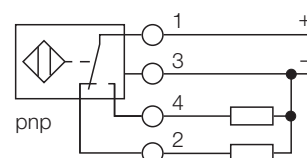




- **rectangular, height 60 mm**
- **Plastic, PBT-GF30-V0**
- **Factor 1 for all metals**
- **extended switching distance**
- **Degree of protection IP68**
- **Magnetic field immune**
- **Extended temperature range**
- **Predamping protection through self-compensation**
- **1-side embedding possible**
- **4-wire DC, 10...65 VDC**
- **change-over, pnp output**
- **Terminal chamber**

Wiring diagram



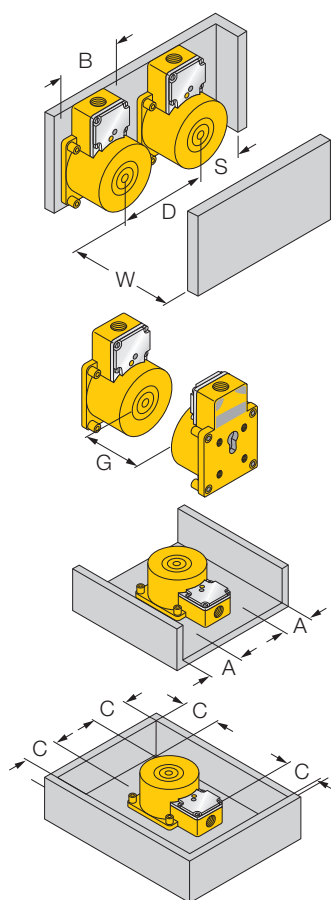
Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. uprox+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardisation.

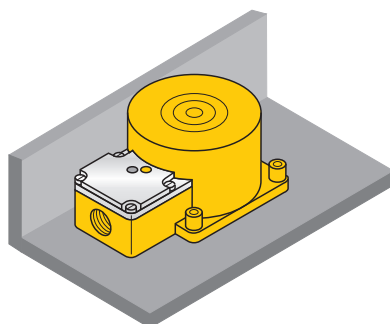
Type	NI100U-K90SR-VP4X2
Ident-No.	1625834
Rated operating distance Sn	100 mm
Mounting condition	non-flush, partial embedding possible
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3... 15 %
Ambient temperature	-30...+ 85 °C
Operating voltage	10... 65 VDC
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 / cyclic
Voltage drop at I _e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes / complete
Output function	4-wire, Two-wire contact, PNP
Protection class	□
Switching frequency	≤ 0.25kHz
Housing	rectangular, K90SR
Dimensions	130 x 75 x 60 mm
Housing material	Plastic, PBT-GF30-V0
Material active face	Plastic, PBT-GF30-V0
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection class	IP68
Operating voltage display	LED green
Display switch state	LED yellow
Included in scope of supply	cable gland

Mounting instructions	minimum distances
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 possible:



1-side flush mounting:

Sr = 70 mm



Inductive sensor
NI100U-K90SR-VP4X2

TURCK

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