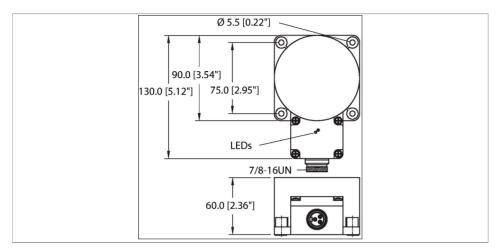


NI100U-K90SR-VP4X2-B1141 Inductive Sensor – With Extended Switching Distance



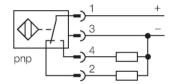
Technical data

Туре	NI100U-K90SR-VP4X2-B1141
ID	1625894
General data	
Rated switching distance	100 mm
Mounting conditions	Non-flush, partially embeddable
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _в	1065 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I。	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	4-wire, Complementary contact, PNP
DC field stability	300 mT
AC field stability	300 mT _{ss}
Insulation class	
Switching frequency	0.25 kHz

Features

- 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 predamping
- ■One-sided fitting possible
- ■DC 4-wire, 10...65 VDC
- Changeover contact, PNP output
- ■7/8" male connector

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.



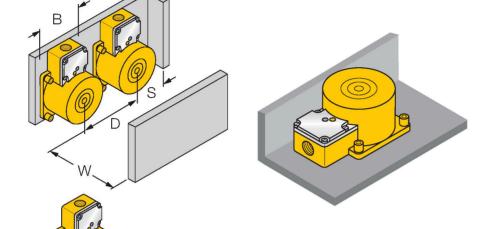
Technical data

Mechanical data	
Design	Rectangular, K90SR
Dimensions	130 x 75 x 60 mm
Housing material	Plastic, PBT-GF30-V0
Active area material	PBT-GF30-V0
Electrical connection	Connector, 7/8"
Environmental conditions	
Ambient temperature	-30+85 °C
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



Mounting instructions

Mounting instructions/Description



Distance D	270 mm
Distance W	3 x Sn
Distance S	1 × B
Distance G	6 x Sn
Distance A	1 × Sn
Distance C	2 x Sn
Width active area B	90 mm

1-side flush mounting

1-side mounting:

Sr = 70 mm

