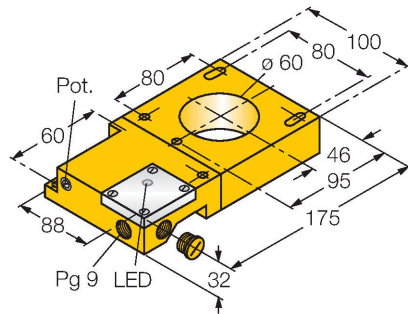


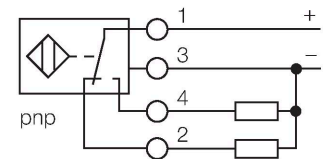
# NI60R-S32SR-VP44X Inductive Sensor – Ring Sensor



## Features

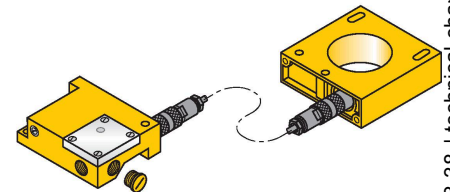
- Rectangular, height 32 mm
- Plastic, ABS
- Static output behavior
- Sensitivity adjusted via potentiometer
- Modular design, ring probe and switching amplifier also separately mountable
- Output pulse length min. 100 ms
- DC 4-wire, 10...55 VDC
- Changeover contact, PNP output
- Terminal chamber

## 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. Inductive ring sensors generate this field through an LC resonant circuit. The target acts as the coil core.



## Technical data

Type	NI60R-S32SR-VP44X
ID	1410302
<b>General data</b>	
Inside ring diameter D	60 mm
Steel wire diameter (St37)	≥ 2 mm
Repeat accuracy	≤ 2 % of full scale
pulse stop	≥ 5 ms
Pulse duration at the output	≥ 100 ms ± 20 %
<b>Electrical data</b>	
Operating voltage $U_b$	10...55 VDC
Ripple $U_{ss}$	≤ 10 % $U_{bmax}$
DC rated operating current $I_b$	≤ 200 mA
No-load current	≤ 20 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at $I_b$	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	4-wire, Complementary contact, PNP
Switching frequency	0.008 kHz
<b>Mechanical data</b>	
Design	Ring sensor, S32SR
Dimensions	175 x 100 x 32 mm
Housing material	Plastic, ABS

Technical data

Electrical connection	Terminal chamber
Coil body	plastic, ABS
Environmental conditions	
Ambient temperature	-25...+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP65
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Red
Included in delivery	cable gland, blanking plug

Mounting instructions

Mounting instructions/Description	
	Distance D150 mm
	Distance W150 mm
	Distance S150 mm
	Distance G150 mm

Accessories

ADAPTER CABLE RING 1.6M	14306
	Adapter cable enables separate mounting of ring probe and switching amplifier; coax cable: RG58 C/U 50 Ohm