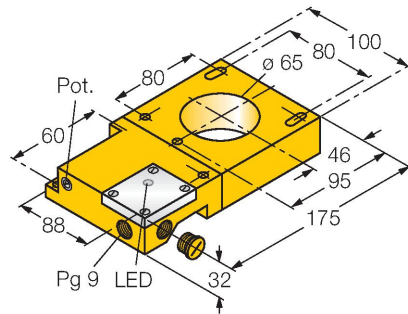


NI65R-S32SR-VP44X

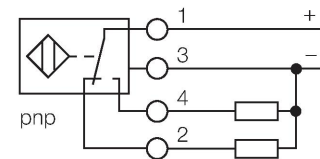
Inductive Sensor – Ring Sensor



Features

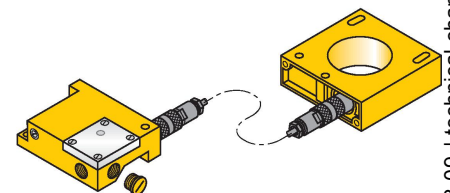
- Rectangular, height 32 mm
- Plastic, ABS
- Static output behavior
- Sensitivity adjusted via potentiometer
- Modular design, ring probe and switching amplifier also separately mountable
- Output pulse length min. 100 ms
- DC 4-wire, 10...55 VDC
- Changeover contact, PNP output
- Terminal chamber

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

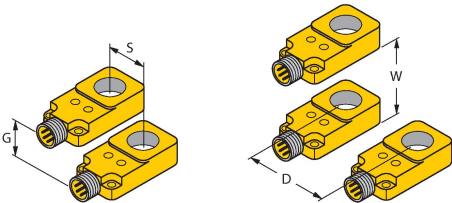
Type	NI65R-S32SR-VP44X
ID	1440008
General data	
Inside ring diameter D	65 mm
Steel wire diameter (St37)	≥ 2 mm
Repeat accuracy	≤ 2 % of full scale
pulse stop	≥ 5 ms
Pulse duration at the output	≥ 100 ms ± 20 %
Electrical data	
Operating voltage U_s	10...55 VDC
Ripple U_{ss}	≤ 10 % U_{smax}
DC rated operating current I_s	≤ 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_s	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	4-wire, Complementary contact, PNP
Switching frequency	0.008 kHz
Mechanical data	
Design	Ring sensor, S32SR
Dimensions	175 x 100 x 32 mm
Housing material	Plastic, ABS

Technical data

Electrical connection	Terminal chamber
Coil body	plastic, POM
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, Yellow
Included in delivery	cable gland, blanking plug

Mounting instructions

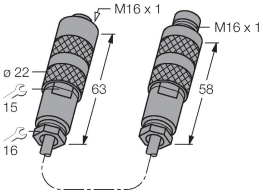
Mounting instructions/Description



Distance D	150 mm
Distance W	150 mm
Distance S	150 mm
Distance G	150 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