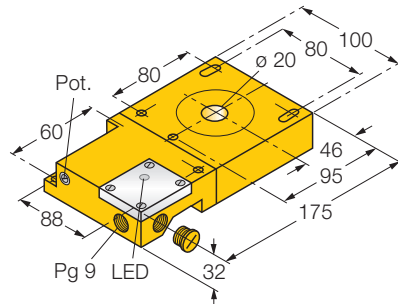
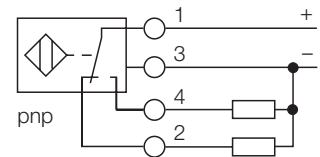


Inductive sensor ring sensor Ni20R-S32SR-VP44X



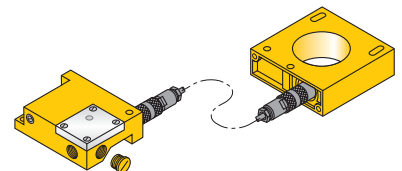
- ring sensor, height 32 mm
- plastic, ABS
- static output performance
- sensitivity adjustable via potentiometer
- ring probe and switching amplifier in a modular construction may also be mounted separately
- output pulse length min. 100 ms
- 4-wire DC, 10...55 VDC
- SPDT, pnp output
- terminal chamber

Wiring diagram



Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. Inductive ring sensors generate this field by an LC resonant circuit. The target acts as the coil core.

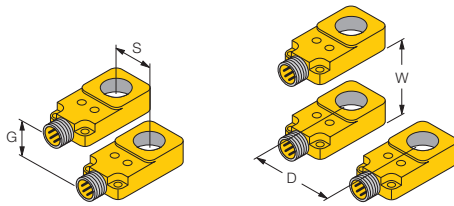


Type	Ni20R-S32SR-VP44X
Ident-No.	1440001
Interior ring diameter	20 mm
Diameter of steel wire (St37)	≥ 0,4 mm
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Pulse pause	≥ 5 ms
Pulse length at output	≥ 100 ms ± 20 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 55 VDC
Max. ripple	≤ 10 % U _{pp}
Rated operational current (DC) I _e	≤ 200 mA
No-load current I ₀	≤ 20 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,008 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	4-wire, complementary, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I _e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	ring sensor; S32
Dimensions	175 x 100 x 32 mm
Housing material	plastic, ABS
Wiring	terminal chamber
Coil form	Plastic, ABS
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP65
Switching status indication	LED yellow

Inductive sensor ring sensor Ni20R-S32SR-VP44X

Mounting instructions

	minimum gap
Gap D	150 mm
Gap W	150 mm
Gap S	150 mm
Gap G	150 mm



Inductive sensor ring sensor Ni20R-S32SR-VP44X

Accessories

Typ	Ident-No.	Description	Dimension drawing
ADAPTERKABEL ZUM RING 1,60M	14306	The adapter cable enables separate mounting of ring probe and switching amplifier; coax cable: RG58 C/U 50 Ohm	
ADAPTERKABEL ZUM RING 3,00M	14839	The adapter cable enables separate mounting of ring probe and switching amplifier; coax cable: RG58 C/U 50 Ohm	