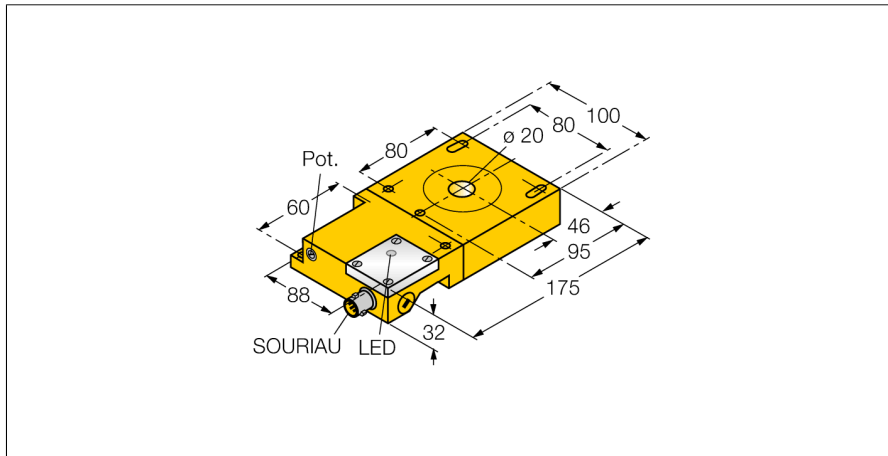
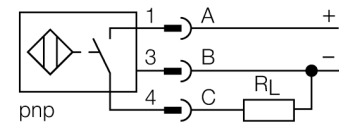


Inductive sensor
Ring sensor
NI20R-S32SR-AP44X-S1131



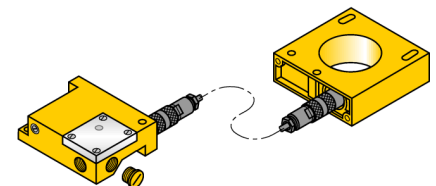
- Rectangular, height 32 mm
- Plastic, ABS
- Static output behaviour
- Sensitivity adjusted via potentiometer
- Modular design, ring probe and switching amplifier also separately mountable
- Output pulse length min. 100 ms
- DC 3-wire, 10...55 VDC
- NO contact, PNP output
- Connector, SOURIAU

Wiring Diagram



Functional principle

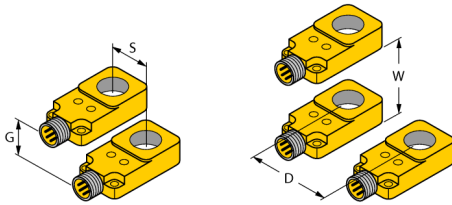
Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. Inductive ring sensors generate this field through an LC resonant circuit. The target acts as the coil core.



Type designation	NI20R-S32SR-AP44X-S1131
Ident-No.	1440002
Inside ring diameter D	20 mm
Steel wire diameter (S137)	≥ 0.4 mm
Repeat accuracy	≤ 2 % of full scale
pulse stop	≥ 5 ms
Pulse duration at the output	100 ms ± 20 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...55 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 20 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes/ Cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.008 kHz
Design	Ring sensor,S32SR
Dimensions	175 x 100 x 32 mm
Housing material	Plastic, ABS
Electrical connection	Connector, SOURIAU
Coil body	plastic, ABS
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

Inductive sensor
Ring sensor
NI20R-S32SR-AP44X-S1131

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



Inductive sensor
 Ring sensor
 NI20R-S32SR-AP44X-S1131



Accessories

Type code	Ident-No.	Description
8 51 06EC 83AP50STECKVERBINDER	14304	Souriau connector as counter-part for coupling at ring S1131
ADAPTER CABLE RING 1.6M	14306	The adapter cable enables separate mounting of ring probe and switching amplifier; coax cable: RG58 C/U 50 Ohm

