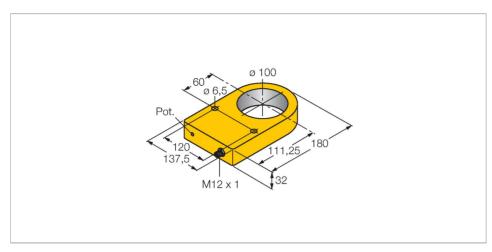


NI100R-S32XL-2LU-H1141/S950 Inductive Sensor – For Differentiation Between Metals



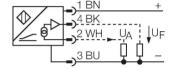
Technical data

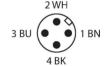
Туре	NI100R-S32XL-2LU-H1141/S950		
ID	1534610		
Special version	S950 Corresponds to:1× analog amplitude output, 1× analog phase output		
General data			
Inside ring diameter D	100 mm		
Repeatability	≤ 1 % of measuring range A - B		
	0.5 %, after warm-up 0.5 h		
Temperature drift	≤ ± 0.06 %/K		
Electrical data			
Operating voltage U _B	1530 VDC		
Ripple U _{ss}	≤ 10 % U _{Bmax}		
No-load current	≤ 8 mA		
Isolation test voltage	0.5 kV		
Short-circuit protection	yes		
Wire break/reverse polarity protection	no/Complete		
Output function	4-wire, Analog output		
Voltage output	010 V		
Voltage output (phase)	≥ 1≤ 10 VDC		
Load resistance voltage output	≥ 4.7 kΩ		
Measuring sequence frequency	80 Hz		
Mechanical data			
Design	Ring sensor, S32XL		
Dimensions	180 x 137.5 x 32 mm		

Features

- Rectangular, height 32 mm
- Plastic, POM
- Analog
- ■1 x analog output for amplitude evaluation
- ■1 x analog output for phase evaluation
- ■M12 x 1 male connector

Wiring diagram





Functional principle

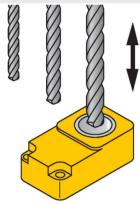
Many applications require a fast detection of material qualities. For example, the sorting of beverage cans made of aluminium or tin, or the differentiation of pipes made of different metals. Turck has developed an analog inductive sensor for this purpose that not only processes the amplitude signal but also the phase signal. Both signals are output as analog values and processed mathematically with a control unit. Different metals are thus detected independent of the distance.

Technical data

Housing material	Plastic, POM		
Electrical connection	Connector, M12 × 1		
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	IP67		
MTTF	751 years acc. to SN 29500 (Ed. 99) 40 °C		

Mounting instructions

Mounting instructions/Description



Wiring accessories

Dimension drawing	Туре	ID	
M12x1 o15	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

