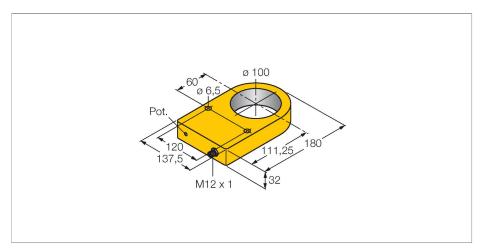


NI100R-S32XL-2LU-H1141/S950 Inductive Sensor – For Material Recognition



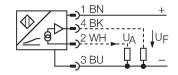
Technical data

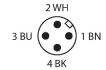
ecial version S	1534610		
	1534610		
	S950 corresponds to: 1× analog amplitude output, 1× analog phase output		
eneral data			
ide ring diameter D 1	100 mm		
cured operating distance ≤	≤ (0.81 × Sn) mm		
peatability ≤	1 % of measuring range A - B		
0	0.5 %, after warm-up 0.5 h		
mperature drift ≤	≤ ± 0.06 %/K		
ectrical data			
erating voltage	1530 VDC		
sidual ripple ≤	≤ 10 % U _{ss}		
-load current 8	8 mA		
lation test voltage ≤	≤ 0.5 kV		
ort-circuit protection ye	yes		
re breakage/Reverse polarity protec- กด	no / Complete		
tput function 4	4-wire, Analog output		
Itage output 0	010 V		
ltage output (phase) ≥	≥ 1≤ 10 VDC		
ad resistance voltage output ≥	≥ 4.7 kΩ		
easuring sequence frequency 8	30 Hz		
echanical data			
sign R	Ring sensor, S32XL		
mensions 1	180 x 137.5 x 32 mm		
using material P	Plastic, POM		

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.

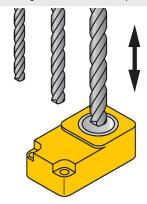


Technical data

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



Accessories

Dimension drawing	Туре	ID	
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length



gth: 2 m, jacket approval