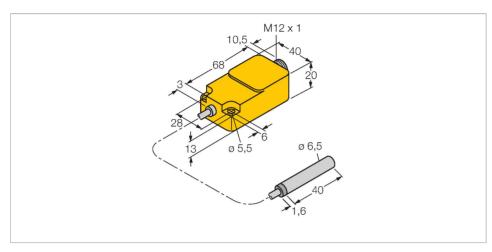


BI1.5-EH6.5-0.2-Q20-2LU-H1141/S950 Inductive Sensor – For Material Recognition



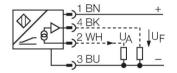
Technical data

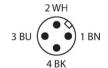
Type	BI1.5-EH6.5-0.2-O20-2LU-H1141/S950
Туре	• • • • • • • • • • • • • • • • • • • •
ldent. no.	1533010
Remark to product	Because of the new black front cap, the thickness of 0,6 mm to 0,3 mm modified.
Special version	S950 corresponds to: $1 \times$ analog amplitude output, $1 \times$ analog phase output
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
	0.5 %, after warm-up 0.5 h
Temperature drift	\leq ± 0.06 % / K
Ambient temperature	-25+70 °C
Operating voltage	1530 VDC
Residual ripple	≤ 10 % U _{ss}
No-load current	≤ 8 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes
Wire breakage/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
Design	Smooth barrel, 6.5 mm
Dimensions	41.6 mm

Features

- Smooth barrel, Ø 6.5 mm
- Stainless steel, 1.4427 SO
- 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.

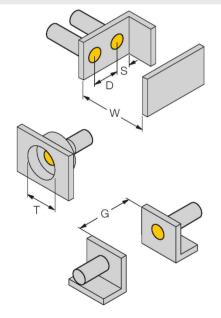


Technical data

Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic, PA12-GF20, black
End cap	Plastic, PP
Electrical connection	Connector, M12 × 1
Cable quality	0.2 m
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



Distance D	16 mm
Distance W	4,5 mm
Distance T	3 x B
Distance S	12 mm
Distance G	9 mm
Diameter active area B	Ø 6.5 mm