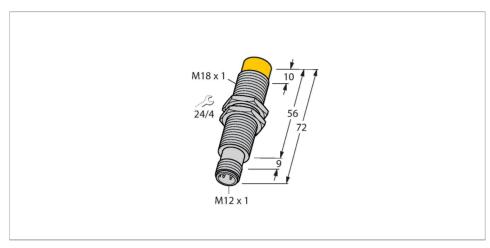


NI10-M18E-SI6-H1143/S968 Inductive Sensor - With Analog Output



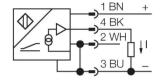
Technical data

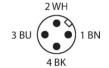
Туре	NI10-M18E-SI6-H1143/S968
ID	1535512
Remark to product	custom's specific sensing curve; distance to target 8 to 10mm, I = 10 to 10,4mA
Special version	S968 Corresponds to:customised analogue curve characteristic
General data	
Measuring range	0.58 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 1 % of measuring range A - B
	0.5 %, after warm-up 0.5 h
Reproducibility	≤ 80 µm
	≤ 40 µm, after a warm-up time of 0.5 h
Temperature drift	≤ ± 0.06 %/K
Electrical data	
Operating voltage U _B	1030 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	3-wire, Analog output

Features

- ■Threaded barrel, M18 x 1
- Chrome-plated brass
- ■3-wire, 10...30 VDC
- ■Analog output
- ■0...10 mA
- ■M12 × 1 male connector

Wiring diagram





Functional principle

Functional principle

Inductive TURCK sensors with analog output accomplish simple control tasks. They provide a current, voltage or frequency signal proportional to the target's distance. The output signal is linear to the distance of the target over the entire sensing range.

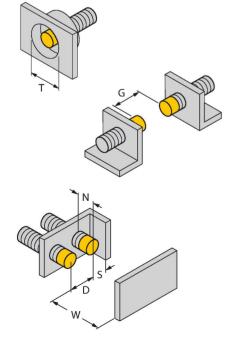


Technical data

Current output	010 mA
Load resistance current output	≤ 0.4 kΩ
Measuring sequence frequency	100 Hz
Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	72 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PA12-GF30
Max. tightening torque of housing nut	25 Nm
Electrical connection	Connector, M12 × 1
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



Distance D	36 mm
Distance W	18 mm
Distance T	3 x B
Distance S	27 mm
Distance G	36 mm
Distance N	12 mm
Diameter active area B	Ø 18 mm



Accessories

BST-18B 6947214

M5 20 28 40 24 24 24

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

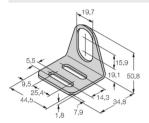
QM-18

6945102

Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.



MW18 6945004



Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304) BSS-18

6901320

Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

