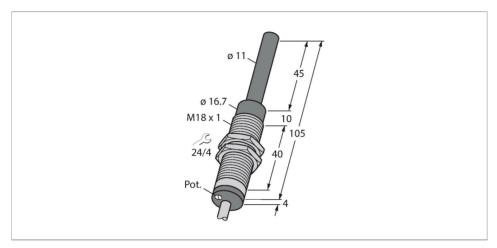


WI40-M18-LIU5 Inductive Sensor – With Analog Output



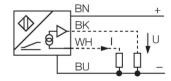
Technical data

Туре	WI40-M18-LIU5
ID	1536603
General data	
Measuring range	040 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeatability	≤ 1 % of measuring range A - B
	0.5 %, after warm-up 0.5 h
Linearity deviation	≤ 2 %
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
Current output	420 mA
Load resistance voltage output	≥ 4.7 kΩ
Load resistance current output	≤ 0.4 kΩ
Measuring sequence frequency	40 Hz

Features

- ■Threaded barrel, M18 x 1
- Chrome-plated brass
- ■Potentiometer to adjust the characteristic
- Actuated via short-circuiting ring, blind hole or the like
- ■4-wire, 15...30 VDC
- ■Analog output
- ■0...10 V and 4...20 mA
- Cable connection

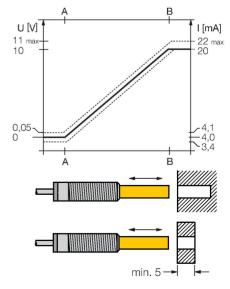
Wiring diagram



Functional principle

Simple control tasks can be solved with the inductive linear position sensors of the WI series from Turck.

They are selectively operated with a non-ferrous metal ring or blind hole and provide a distance proportional, analog output signal.



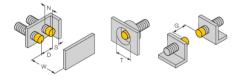


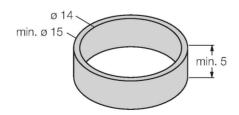
Technical data

Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	109 mm
Probe length	45 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PVC rigid, black
End cap	Plastic, PUR, black
Max. tightening torque of housing nut	25 Nm
Electrical connection	Cable
Cable quality	Ø 5.2 mm, Gray, LifYY, PVC, 2 m
Core cross-section	4 x 0.34 mm ²
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
Included in delivery	brass ring

Mounting instructions

Mounting instructions/Description





Distance D	72 mm	
Distance W	2 x B	_ 7
Distance T	5 x B	_ ;
Distance S	1 x B	_ (
Distance G	3 x B	_ 9
Distance N	55 mm	_ <u> </u>
Diameter active area B	Ø 18 mm	_ 4004
Use non-ferrous metal only.	s for ring or blind hole	77 07
The diameter of the bli wall thickness and the	nd hole depends on its material.	20,40,00
	-ring, which is included s that the values stated in erved.	U
In case of non-observation hole, the measuring ra		74 07 1701



Accessories

BST-18B 6947214

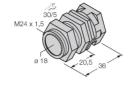
M5 28 40 24 24 30 18 30

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

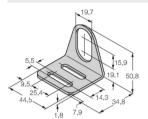
QM-18



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 BSS-18 6901320



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



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