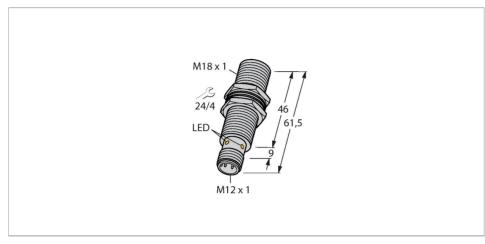


BI5U-M18-AN6X-H1141/S395 **Inductive Sensor**



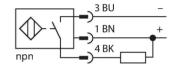
Technical data

Type BI5U-M18-AN6X-H112 ID 1635154 Special version S395 Corresponds to: 61.5 mm, thread length 36 mm for NI General data Rated switching distance 5 mm Mounting conditions Flush Secured operating distance $\leq (0.81 \times Sn) \text{ mm}$ Repeat accuracy $\leq 2 \% \text{ of full scale}$ Temperature drift $\leq \pm 10 \%$	
61.5 mm, thread length 36 mm for NI General data Rated switching distance 5 mm Mounting conditions Flush Secured operating distance ≤ (0.81 × Sn) mm Repeat accuracy ≤ 2 % of full scale	
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Temperature drift ≤ ±10 %	
- 2.0 /0	
≤ ± 15 %, ≤ -25 °C v ≥	+70 °C
Hysteresis 315 %	
Electrical data	
Operating voltage U _B 1030 VDC	
Ripple U _{ss} ≤ 10 % U _{Bmax}	
DC rated operating current I _e ≤ 200 mA	
No-load current ≤ 25 mA	
Residual current ≤ 0.1 mA	
Isolation test voltage 0.5 kV	
Short-circuit protection yes/Cyclic	
Voltage drop at I _e ≤ 1.8 V	
Wire break/reverse polarity protection yes/Complete	
Output function 3-wire, NO contact, NF	N .
DC field stability 300 mT	

Features

- ■Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 3-wire, 10...30 VDC
- ■NO contact, NPN output
- ■M12 x 1 male connector

Wiring diagram





Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox Factor 1 sensors have significant advantages due to their patented ferrite-coreless multi-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

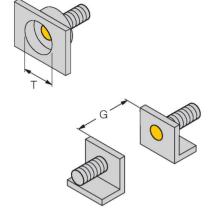


Technical data

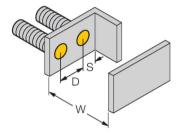
AC field stability	300 mT_{ss}
Insulation class	
Switching frequency	1.5 kHz
Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	61.5 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PBT
Max. tightening torque of housing nut	25 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-30+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40
	°C
Switching state	

Mounting instructions

Mounting instructions/Description

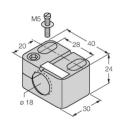


2 x B
3 x Sn
3 x B
1.5 x B
6 x Sn
Ø 18 mm



Accessories

BST-18B 6947214



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



QM-18

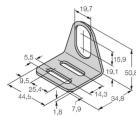
BSS-18

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.

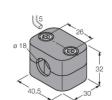
6945102

6901320

MW18 6945004 Mounting bracket for threaded



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



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