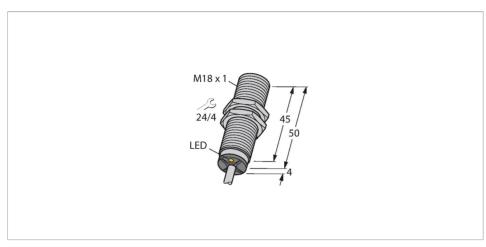


BI10U-M18-AP6X Inductive Sensor



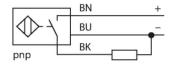
Technical data

Туре	BI10U-M18-AP6X
ldent. no.	1644840
Rated switching distance	10 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	315 %
Ambient temperature	-25+70 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current	≤ 20 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I.	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Switching frequency	1.5 kHz
Design	Threaded barrel, M18 \times 1
Dimensions	54 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, LCP

Features

- Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- _ . . .
- Cable connection

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. *uprox**3 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

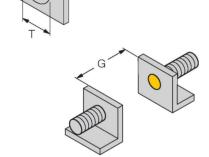


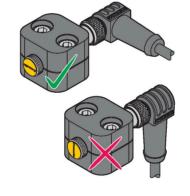
Technical data

Max. tightening torque housing nut10 NmElectrical connectionCableCable qualityØ 5.2 mm, LifYY, PVC, 2 mCore cross-section3 x 0.34 mm²Vibration resistance55 Hz (1 mm)Shock resistance30 g (11 ms)Protection classIP68MTTF874 years acc. to SN 29500 (Ed. 99) 40 °CSwitching stateLED Yellow	End cap	Plastic, EPTR
Cable quality Ø 5.2 mm, LifYY, PVC, 2 m Core cross-section 3 x 0.34 mm² 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	Max. tightening torque housing nut	10 Nm
Core cross-section3 x 0.34 mm²Vibration resistance55 Hz (1 mm)Shock resistance30 g (11 ms)Protection classIP68MTTF874 years acc. to SN 29500 (Ed. 99) 40 ℃	Electrical connection	Cable
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	Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Shock resistance 30 g (11 ms) Protection class IP68 MTTF 874 years acc. to SN 29500 (Ed. 99) 40 °C	Core cross-section	3 x 0.34 mm²
Protection class IP68 MTTF 874 years acc. to SN 29500 (Ed. 99) 40 °C	Vibration resistance	55 Hz (1 mm)
MTTF 874 years acc. to SN 29500 (Ed. 99) 40 °C	Shock resistance	30 g (11 ms)
	Protection class	IP68
Switching state LED Yellow	MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
5Witching state	Switching state	LED, Yellow

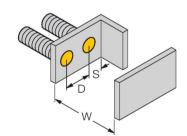
Mounting instructions

Mounting instructions/Description





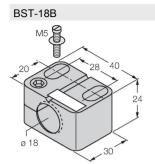
Distance D	36 mm
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 18 mm







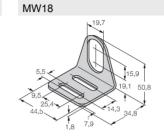
Accessories



6947214

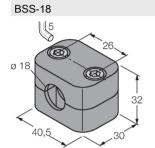
6901320

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



6945004

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



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