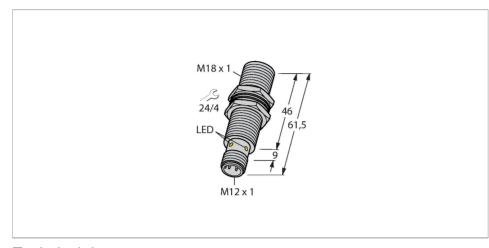


BI8U-MT18M-AP6X2-H1141/S1589 Inductive Sensor - With WeldGuard™ coating



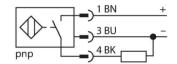
Technical data

Туре	BI8U-MT18M-AP6X2-H1141/S1589
Ident. no.	16447411
Special version	S1589 corresponds to: With weldguard coating
Rated switching distance	8 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	315 %
Ambient temperature	-30+85 °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 _e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Insulation class	
Switching frequency	1.5 kHz

Features

- ■Threaded barrel, M18 x 1
- ■Brass, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- Recessed mountable
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

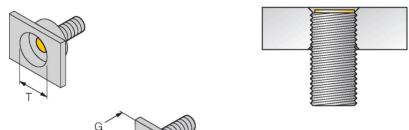


Technical data

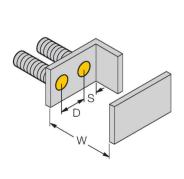
Design	Threaded barrel, M18 × 1
Dimensions	61.5 mm
Housing material	Metal, CuZn, PTFE-coated
Active area material	Plastic, LCP + WeldGuard™, grey
Max. tightening torque of housing nut	15 Nm
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
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	irved
Distance G	6 x Sn	rese
Diameter active area B	Ø 18 mm	hanges
All flush mountable upro types are also recessed operation is ensured if the by half a turn.	mountable. Safe	BI8U-MT18M-AP6X2-H1141/S1589 12/03/2020 05-02 technical changes reserved



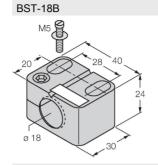


Accessories

QMT-18 M24 x 1,5 Ø 18 20,5 36

6945104

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



6947214

6905310

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



6901320

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



Protective nut for M18 x 1 threaded barrels; material: Stainless steel A2 1.4305 (AISI 303)