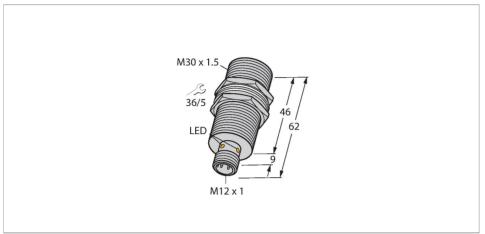


BI15U-MT30-AP6X-H1141/S1589 Inductive Sensor – With WeldGuard™ Coating





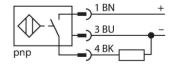
Туре	BI15U-MT30-AP6X-H1141/S1589
ID	1636793
Special version	S1589 Corresponds to:With weldguard coating
General data	
Rated switching distance	15 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _o	≤ 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。	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
DC field stability	300 mT
AC field stability	300 mT _{ss}



Features

- ■M30 × 1.5 threaded barrel
- ■Brass, PTFE-coated
- Front cap with special coating, very resistant to thermal and mechanical load
- 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



Technical data

Insulation class

MTTF

Switching state

Switching frequency 1 kHz Mechanical data Threaded barrel, M30 x 1.5 Design Dimensions 62 mm Metal, CuZn, PTFE-coated Housing material Active area material Plastic, LCP, PTFE-coated Max. tightening torque of housing nut 75 Nm Electrical connection Connector, M12 × 1 **Environmental conditions** -30...+85 °C Ambient temperature Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class IP68

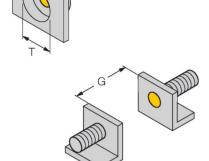
LED, Yellow

distances, maximum flexibility and operational reliability as well as efficient standardization.

874 years acc. to SN 29500 (Ed. 99) 40

Mounting instructions

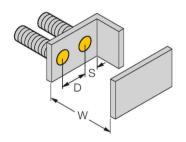
Mounting instructions/Description





Distance D	60 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 30 mm

All flush mountable uprox+ threaded barrel types are also recessed mountable. Safe operation is ensured if the sensor is screwed in by half a turn.

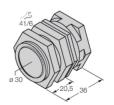


Accessories

BST-30B

6947216

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



QMT-30

PN-M30

6945105

Quick-mount bracket with dead-stop; material: brass, PTFE-coated; Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

BSS-30

6901319

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



Protective nut for M30 x 1 threaded barrel devices; material: Stainless steel A2 1.4305 (AISI 303)

6905308

Dimension drawing