

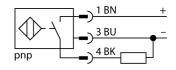
Type designation	BI5U-MT18-AP6X2-H1141/S395/S1589 1635291	
Ident-No.		
Special version	S395-S1589 corresponds to:	
	Housing length: 61.5 mm; thread length: 46 mm; with WeldGuard™ coating	
Rated switching distance Sn	5 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0,81 x Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ± 10 %	
·	\leq ± 15 %, \leq -25 °C v \geq +70 °C	
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 I₀	≤ 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	
Switching frequency	2.5 kHz	

Differisions	01.5 11111	
Housing material	Metal, CuZn, PTFE-coated	
Active area material	Plastic, PBT + WeldGuard™ , PTFE-coated	
Max. tightening torque housing nut	15 Nm	
Electrical connection	Connector, M12 × 1	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP68	

Power-on indication LED,Green

- Threaded barrel, M18 x 1
- **■** Brass, PTFE
- Front cap with special coating, very resistant to thermal and mechanical load
- 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, 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* Factor 1 sensors have significant advantages due to their patented ferrite-coreless three-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

Turck WeldGuard sensors for use in welding systems are equipped with a thin coating made of thermosetting plastic. This high-tech coating is resistant to abrasion and withstands mechanical stress.

Design

MTTF

Switching state

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

Threaded barrel, M18 × 1

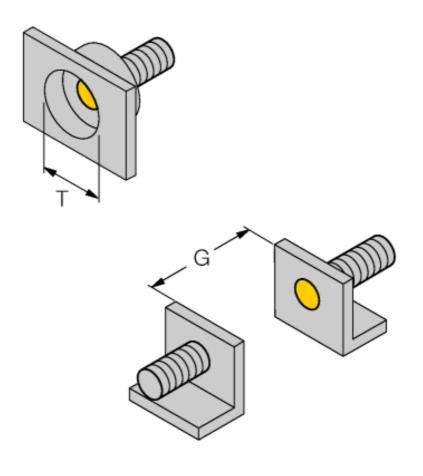
LED, Yellow

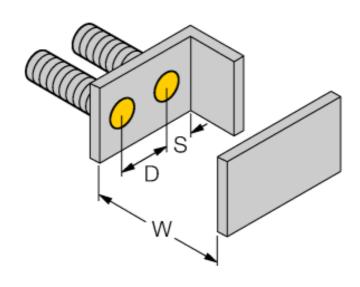




Inductive sensor With WeldGuard™ coating BI5U-MT18-AP6X2-H1141/S395/S1589

2 x B	
3 x B	
Ø 10 mm	
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Inductive sensor With WeldGuard™ coating BI5U-MT18-AP6X2-H1141/S395/S1589

Accessories

Type code	Ident-No.	Description	Dimension drawing
BST-18B	6947214	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6	20 28 40 24 40 30 30 A
QMT-18	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.	M24 x 1,5 305 305 36
BSS-18	6901320	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	o 18 26 32 32 40.5 30