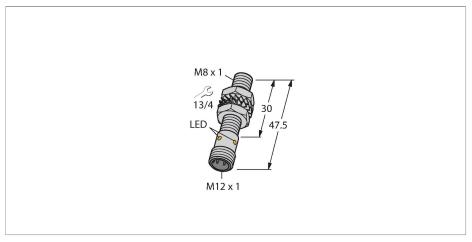


BI3U-EMT08-AP6X-H1341/S1589 Inductive Sensor – With WeldGuard™ Coating





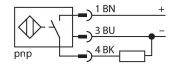
Technical data

Туре	BI3U-EMT08-AP6X-H1341/S1589	
ID	46021560	
Special version	S1589 Corresponds to:With Weld- Guard™ Coating	
General data		
Rated switching distance	3 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Hysteresis	315 %	
Electrical data		
Operating voltage U _B	1030 VDC	
Ripple U _{ss}	≤ 10 % U _{Bmax}	
DC rated operating current I _o	≤ 150 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 break/reverse polarity protection	yes/Complete	
Output function	3-wire, NO contact, PNP	
DC field stability	200 mT	
AC field stability	200 mT _{ss}	
Switching frequency	1 kHz	
Mechanical data		
Design	Threaded barrel, M8 x 1	
Dimensions	47.5 mm	

Features

- ■Threaded barrel, M8 x 1
- Stainless steel, PTFE-coated
- 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
- ■M12 x 1 male connector

Wiring diagram





Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox3 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.

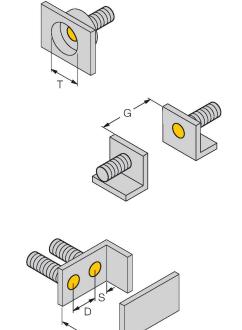
BI3U-EMT08-AP6X-H1341/S1589| 21-02-2025 15-16 | Technical modifications reserved

Technical data

Housing material	Stainless steel, 1.4427 SO, PTFE-coated	
Active area material	Plastic, PA12, PTFE-coated	
Max. tightening torque of housing nut	5 Nm	
Electrical connection	Connector, M12 × 1	
Environmental conditions		
Ambient temperature	0+60 °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	LED	

Mounting instructions

Mounting instructions/Description

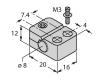


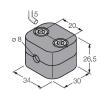
Distance D	3 × B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 8 mm

Accessories

BST-08B 6947210

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

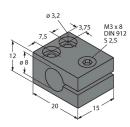




BSS-08 6901322

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

MBS80 69479



Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum

Accessories

Dimension drawing	Туре	ID	
	RKC4T-2/TXL1001	6630249	Connection cable, M12 fema
			connector straight 3-nin ca



Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, protective jacket material: aramid fibers, yellow; temperature peak: 200 °C