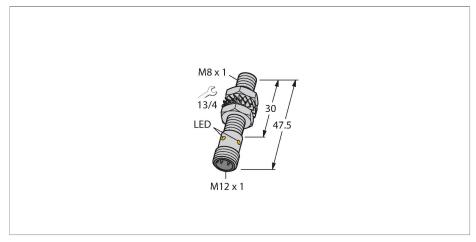


BI3U-EMT08-AP6X-H1341 Inductive Sensor





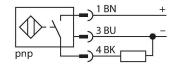
Technical data

Туре	BI3U-EMT08-AP6X-H1341		
ID	4602156		
General data			
Rated switching distance	3 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	1030 VDC		
Residual ripple	≤ 10 % U _{ss}		
DC rated operational current	≤ 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 breakage/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.

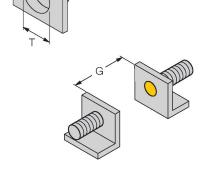


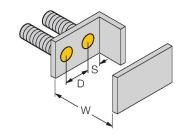
Technical data

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



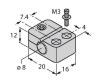


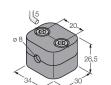
Distance D	3 × B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 8 mm

Accessories

BST-08B 6947210

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

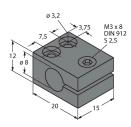




BSS-08 6901322

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 female connector, straight, 3-pin, cable length:



2 m, protective jacket material: aramid fibers, yellow; temperature peak: 200 °C