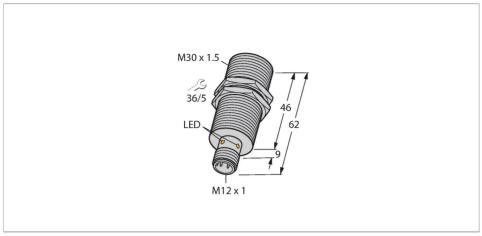


BI15U-M30-AP6X-H1141 Inductive Sensor - With Extended Switching Distance



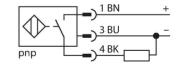
Technical data

Туре	BI15U-M30-AP6X-H1141
ID	1636732
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 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 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 _e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
DC field stability	300 mT
AC field stability	300 mT _{ss}
Insulation class	

Features

- ■M30 × 1.5 threaded tube
- Chrome-plated brass
- 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.

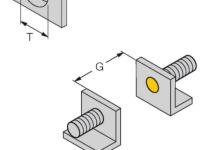


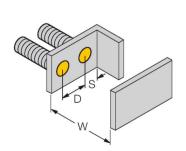
Technical data

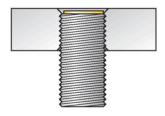
Switching frequency	1 kHz	
Mechanical data		
Design	Threaded barrel, M30 x 1.5	
Dimensions	62 mm	
Housing material	Metal, CuZn, Chrome-plated Plastic, LCP	
Active area material		
Max. tightening torque of housing nut	75 Nm	
Electrical connection	Connector, M12 × 1	
Environmental conditions		
Ambient temperature	-30+85 °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, Yellow	
·		

Mounting instructions

Mounting instructions/Description







Distance D	60 mm	
Distance W	3 x Sn	-
Distance T	3 x B	, ved
Distance S	1.5 x B	eser
Distance G	6 x Sn	des I
Diameter active area B	Ø 30 mm	al chan
All flush mountable uproy types are also recessed i operation is ensured if the by half a turn.	mountable. Safe	BI15U-M30-AP6X-H1141 11/07/2023 13-16 technical changes reserved

Accessories

PN-M30

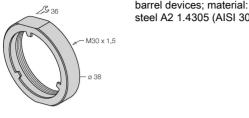
6905308

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

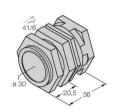
BST-30B

6947216

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



QM-30 6945103



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

MW-30

6945005

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

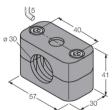


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BSS-30

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

6901319



Wiring accessories

Dimension drawing	Туре	ID
	RKC4T-2/TEI	6625010



Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval