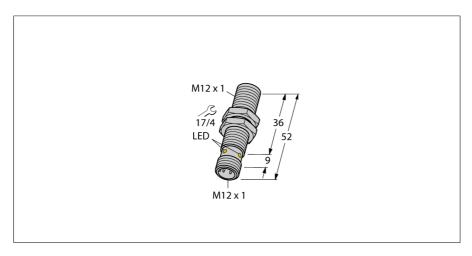


Inductive sensor BI6U-M12-AP6X-H1141





Type code Ident-No.	BI6U-M12-AP6X-H1141 1644810	
Rated switching distance Sn	6 mm	
Mounting conditions	flush	
Assured switching distance	≤ (0,81 x Sn) mm	
Repeatability	≤ 2 % of full scale	
Temperature drift	≤ ± 10 %	
Hysteresis	315 %	
Ambient temperature	-25+70 °C	
Operating voltage	1030VDC	
Residual ripple	≤ 10 % U₅s	
DC rated operational current	≤ 200 mA	
No-load current I _o	≤ 20 mA	
Residual current	≤ 0.1 mA	
Rated insulation 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 kHz	

threaded barrel, M12 x 1

metal, CuZn, chrome-plated

874 years acc. to SN 29500 (Ed. 99) 40 $^{\circ}\text{C}$

52 mm

10 Nm

plastic, LCP

male, M12 x 1

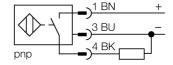
55 Hz (1 mm)

30 g (11 ms)

LED yellow

- Threaded barrel, M12 x 1
- Chrome-plated brass
- 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 detect metal objects contactless and wear-free. uprox @3 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Construction

Housing material Material active area

Vibration resistance

Shock resistance

Switching state

Max. tightening torque housing nut

Dimensions

Connection

IP Rating

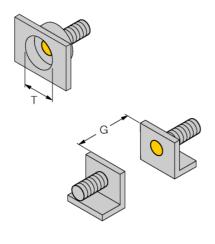
MTTF

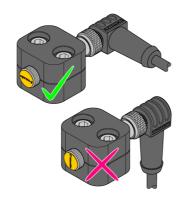


Inductive sensor BI6U-M12-AP6X-H1141



Distance D	24 mm
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter of the active area B	Ø 12 mm





When installing the sensor, in combination with the illustrated Stauf clamp, observe its correct alignment towards the Stauf clamp. For this, see the uprox3 lettering on the front cap of the sensor and the corresponding installation drawing.

