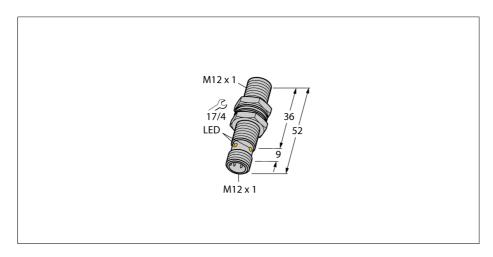


Inductive sensor BI4U-MT12-AN6X-H1141





Type code	BI4U-MT12-AN6X-H1141	
Ident no.	1634829	
Rated operating distance Sn	4 mm	
Mounting condition	flush	
Assured sensing range	≤ (0,81 x Sn) mm	
Repeatability	≤ 2 % of full scale	
Temperaturdrift	10 %	
	\leq ± 15 %, \leq -25 °C v \geq +70 °C	
Hysteresis	315 %	
Ambient temperature	-30+85 °C	
Operating voltage	1030VDC	
Residual ripple	≤ 10 % U₃₃	
DC rated operational current	≤ 200 mA	
No-load current I₀	≤ 15 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, NPN	

2 kHz

52 mm

7 Nm

male, M12 x 1

55 Hz (1 mm)

30 g (11 ms)

• yellow

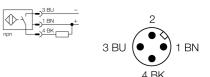
threaded barrel, M12 x 1

Metal, CuZn, PTFE-coated Plastic, LCP, PTFE-coated

	Threaded	barrel,	M12 x 1
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- Brass, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Magnetic field immune
- High switching distance
- Recessed mounting possible
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M12 x 1 connector

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *Uprox*®+ sensors have distinct advantages compared to conventional sensors. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Protection class

Design

Dimensions

Connection

MTTF

Housing material

Material active face

Vibration resistance

Shock resistance

Protection class

Switching state

Max. tightening torque housing nut

Switching frequency

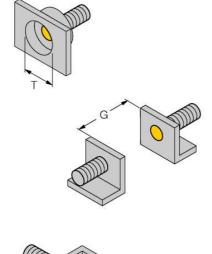
874 years acc. to SN 29500 (Ed. 99) 40 $^{\circ}\text{C}$

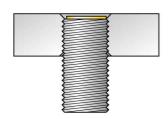


Inductive sensor BI4U-MT12-AN6X-H1141



Distance D	24 mm
Distance W	12 mm
Distance T	36 mm
Distance S	18 mm
Distance G	24 mm
Diameter of the active area B	Ø 12 mm





Flush and recessed mounting of all *uprox*®+ threaded barrel sensors. Safe operation is ensured if the sensor is screwed in by half a turn.





Accessories

Type code	Ident no.	Description	Dimension drawing
PN-M12	6905309	Impact protection nut for M12x1 threaded barrel devices; material: Stainless steel A2 1.4305 (AISI 303)	2517 — M12 x 1 — o 19
BST-12B	6947212	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 28 40 18 18 18 30 12 30
BSS-12	6901321	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	e 12 20 20 26,5 34 30

Wiring accessories

Type code	ldent no.	Description	Dimension drawing
RKC4T-2/TXL	6625500	Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	