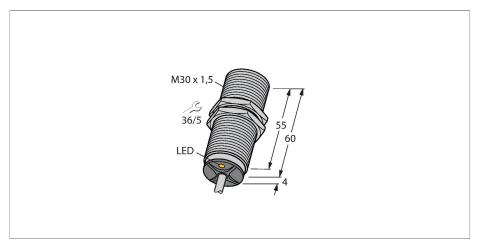
RCK

BI10U-M30-AD4X Inductive sensor



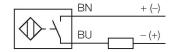
Technical data

Ident. no. 4405073 Rated switching distance 10 mm Mounting conditions Flush	3
Mounting conditions Flush	
Secured operating distance ≤ (0.81 >	× Sn) mm
Repeat accuracy ≤ 2 % of	f full scale
Temperature drift $\leq \pm 10$ %	6
≤±15%	%, ≤ -25 °C v ≥ +70 °C
Hysteresis 320 9	%
Ambient temperature -25+7	70 ℃
Operating voltage 1065	VDC
Residual ripple ≤ 10 % l	U _{ss}
DC rated operational current ≤ 100 m	nA
Residual current ≤ 0.8 m/	A
Isolation test voltage ≤ 0.5 kV	,
Short-circuit protection yes / Cy	clic
Voltage drop at I_e $\leq 5 \text{ V}$	
Wire breakage/Reverse polarity protection Comple	te
Output function 2-wire, N	NO contact, 2-wire
Smallest operating current ≥ 3 mA	
Switching frequency 0.01 kHz	Z
Design Threade	ed barrel, M30 × 1.5
Dimensions 64 mm	
Housing material Metal, C	uZn, Chrome-plated
Active area material Plastic, I	LCP
End cap Plastic, I	EPTR
Max. tightening torque housing nut 75 Nm	

Features

- M30 × 1.5 threaded tube
- Chrome-plated brass
- Factor 1 for all metals
- Resistant to magnetic fields
- DC 2-wire, 10...65 VDC
- NO contact
- Cable connection

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 largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.



Technical data

Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	2 x 0.34 mm²
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

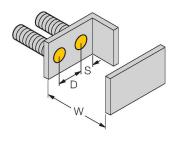


	Distance D	60 mm
•	Distance W	3 x Sn
	Distance T	3 x B
	Distance S	1.5 x B
	Distance G	6 x Sn
	Diameter active area B	Ø 30 mm

All flush mountable *uprox**+ threaded barrel types are also recessed mountable. Safe operation is ensured if the sensor is screwed in by half a turn.

The use of isolating switching amplifiers is possible, because *uprox**+ 2-wire DC sensors operate with 8 VDC low voltage (limited load current 50mA).

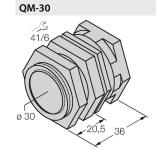
The sensors can be operated with the Turck remote I/O fieldbus system BL20. If the sensors are combined with a BL20-4DI-NAMUR slice, events of wire-break or short-circuit can be detected immediately.



Accessories

BST-30B
M5 20 54 42 36 36 36 36 30 30

6947216Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



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

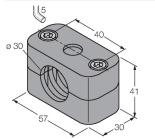
6945103

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

BSS-30

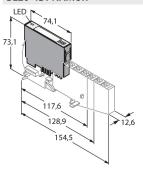
6901319

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



BL20-4DI-NAMUR

6827212



4 digital inputs acc. to EN 60947-5-6 For NAMUR sensors, de-energized contacts or uprox®+ 2-wire DC sensors.