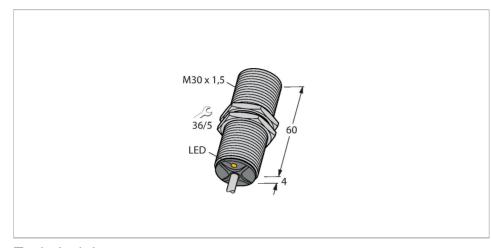


BI10-GT30-ADZ30X2 Inductive Sensor



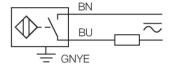
Technical data

eneral data ated switching distance 10 r ounting conditions Flus ecured operating distance ≤ (0 orrection factors St37 = 0.	sh .81 × Sn) mm 7 = 1; Al = 0.3; stainless steel = 0.7; Ms
ated switching distance ounting conditions Flus ecured operating distance ≤ (0 orrection factors St37 = 0.	sh .81 × Sn) mm 7 = 1; Al = 0.3; stainless steel = 0.7; Ms
ounting conditions Flus ecured operating distance ≤ (0 orrection factors St37 = 0.	sh .81 × Sn) mm 7 = 1; Al = 0.3; stainless steel = 0.7; Ms
ecured operating distance ≤ (0 orrection factors St37 = 0.	.81 × Sn) mm 7 = 1; Al = 0.3; stainless steel = 0.7; Ms 4
orrection factors St33 = 0.	7 = 1; Al = 0.3; stainless steel = 0.7; Ms 4
= 0.	4
epeat accuracy ≤ 2	
	% of full scale
ysteresis 3	15 %
lectrical data	
perating voltage U _B 20	.250 VAC
perating voltage U _B 10	.300 VDC
C rated operational current ≤ 40	00 mA
C rated operating current I _e ≤ 30	00 mA
requency ≥ 50)≤ 60 Hz
esidual current ≤ 1.	7 mA
olation test voltage 1.5	kV
urge current ≤ 3	A (≤ 20 ms max. 5 Hz)
nort-circuit protection yes/	/Latching
oltage drop at I _e ≤ 6	V
fire break/reverse polarity protection yes/	/Complete
utput function 2-wi	ire, NO contact, 2-wire
mallest operating current ≥ 3	mA

Features

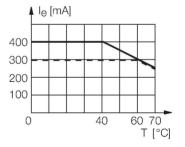
- ■Threaded barrel, M30 x 1.5
- ■Brass, PTFE-coated
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NO contact
- Cable connection

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.



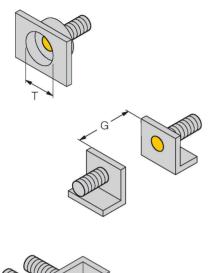


Technical data

Switching frequency	0.02 kHz
Mechanical data	
Design	Threaded barrel, M30 x 1.5
Dimensions	64 mm
Housing material	Metal, CuZn, PTFE-coated
Active area material	Plastic, PA12-GF30, PTFE-coated
Max. tightening torque of housing nut	75 Nm
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	3 x 0.5 mm ²
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Switching state	LED, Red

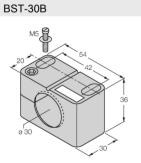
Mounting instructions

Mounting instructions/Description



2 x B
3 x Sn
3 x B
1.5 x B
6 x Sn
Ø 30 mm

Accessories



6947216

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

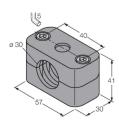


QMT-30

6945105

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

BSS-30



6901319

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