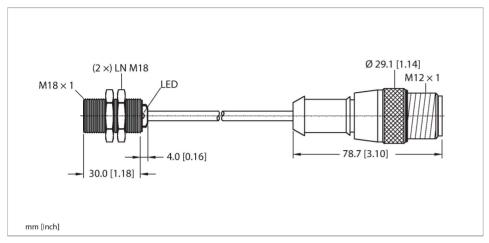


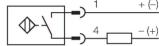
# BI7-GT18K-AD4X-0.2-RS4.23T/S1589 Inductive Sensor - With Increased Switching Distance

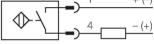
BI7-GT18K-AD4X-0.2-RS4.23T/S1589



### **Features**

- ■Threaded barrel, M18 x 1
- ■Brass, PTFE-coated
- Large sensing range
- ■DC 2-wire, 10...65 VDC
- ■NO contact
- Cable with male end







#### Technical data

Short-circuit protection

Smallest operating current

Wire break/reverse polarity protection

Voltage drop at I.

Output function

Switching frequency

Type

ID	44145922
Special version	S1589 Corresponds to:With weldguard coating
General data	
Rated switching distance	7 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Hysteresis	115 %
Electrical data	
Operating voltage U <sub>B</sub>	1065 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I <sub>e</sub>	≤ 100 mA
Residual current	≤ 0.6 mA
Isolation test voltage	0.5 kV

yes/Cyclic

Complete

≥ 3 mA 1 kHz

≤ 5 V

### 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.

2-wire, NO contact, 2-wire

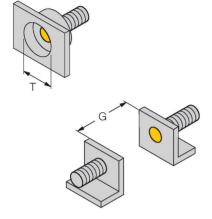


### Technical data

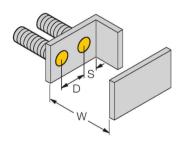
Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	34 mm
Housing material	Metal, CuZn, PTFE-coated
Active area material	Plastic, PA12-GF30, PTFE-coated
End cap	Plastic, EPTR
Material coupling nut	CuZn, nickel-plated
Max. tightening torque of housing nut	25 Nm
Electrical connection	Cable with connector, M12 × 1
Cable quality	Ø 5.2 mm, LifYY, PVC, 0.2 m
Core cross-section	2 x 0.34 mm <sup>2</sup>
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
Switching state	LED, Yellow

## Mounting instructions

#### Mounting instructions/Description

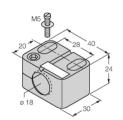


2 x B
3 x Sn
3 x B
1.5 x B
6 x Sn
Ø 18 mm



### Accessories

BST-18B 6947214



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



QMT-18

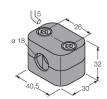
QM-18

Quick-mount bracket with dead-stop; material: brass, PTFE-coated; Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

6945104

6945102

BSS-18 6901320



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



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.