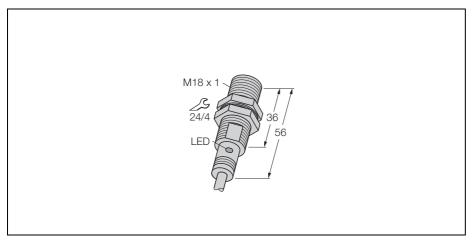
Inductive sensor Stainless steel front Bi5-EG18F-AN6X

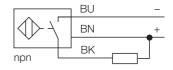




Туре	Bi5-EG18F-AN6X
Ident-No.	4614639
Rated operating distance Sn	5 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	$St37 = 1$, $V2A \sim 0.7$, $Ms \sim 0.4$, $AI \sim 0.3$
Temperature drift	≤ ± 10 %
Hysteresis	3 15 %
Repeatability	≤ 2 %
Ambient temperature	-25+ 70 °C
Operating voltage	10 30 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 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
Switching frequency	≤ 0.1kHz
Housing	threaded barrel, M18 x 1
Dimensions	56 x 18 mm
Housing material	metal, V2A (1.4305)
Material active face	metal, A2 1.4305 (AISI 303)
Admissible pressure on front cap	≤ 20 bar
Tightening torque of housing nut	10 Nm
Electrical connection	cables
Cable quality	Ø 6, LifYY, PVC, 2 m
Cable cross section:	3 x 0.34mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection class	IP68 / IP69K
Display switch state	LED yellow

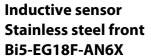
- Threaded barrel, M18x1
- Stainless steel, 1.4305
- 3-wire DC, 10...30 VDC
- normally open npn output
- cable connection

Wiring diagram



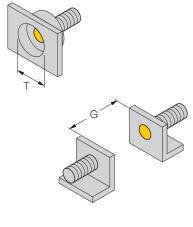
Functional principle

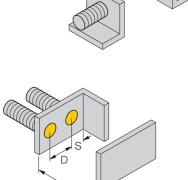
Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. Conserning inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.





Diameter of the active area B	Ø 18 mm
Distance G	65 mm
Distance S	30 mm (Fe metal); 40 mm (non Fe-metal)
Distance T	18 mm (Fe metal); 80 mm (non Fe-metal)
Distance W	20 mm
Distance D	60 mm
Mounting instructions	minimum distances





Switching distance not reduced when flush mounted in ferrous metals

When mounted in non-ferrous metals the active face has to protrude 16 mm.

The values depend on the mounting nuts used. Therefore we recommend the use of the nuts which are included in the delivery.