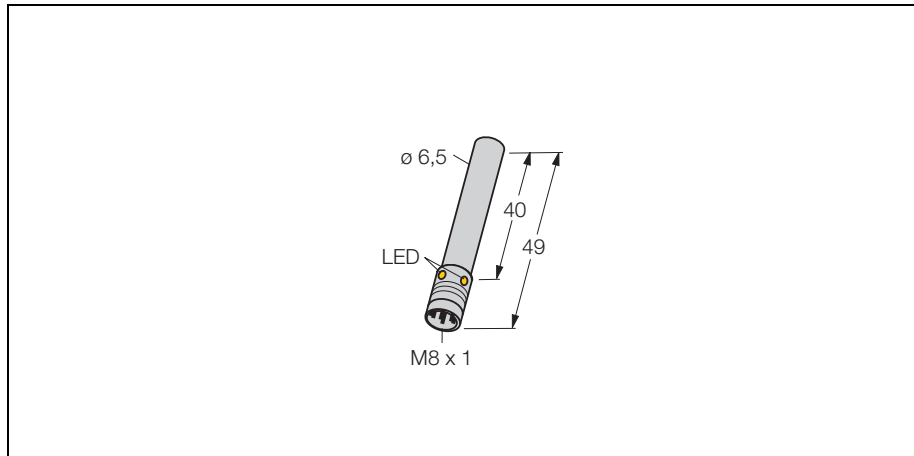
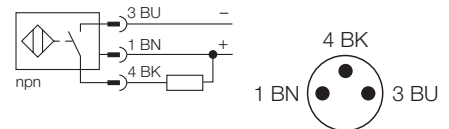


**Inductive sensor**  
**Bi1,5-EH6,5-AN6X-V1131**



- smooth barrel, 6.5 mm diameter
- stainless steel, 1.4404
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M8 x 1

**Wiring diagram**



<b>Type</b>	Bi1,5-EH6,5-AN6X-V1131
Ident-No.	4612120
<b>Rated operating distance Sn</b>	1.5 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3... 15 %
Ambient temperature	-25... + 70 °C
<b>Operating voltage</b>	10... 30VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 150 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I <sub>e</sub>	≤ 1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Switching frequency	≤ 3 kHz
<b>Housing</b>	smooth barrel, 6.5 mm
Dimensions	49 mm
Housing material	metal, AISI 316L
Material active face	plastic, plastic, PA12-GF20
Connection	connectors, M8 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
<b>Display switch state</b>	LED yellow

**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. Concerning inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

**Inductive sensor**  
**Bi1,5-EH6,5-AN6X-V1131**

Mounting instructions	minimum distances
Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1,5 x B
Distance G	6 x Sn

**Diameter of the active area B**      Ø 6.5 mm

