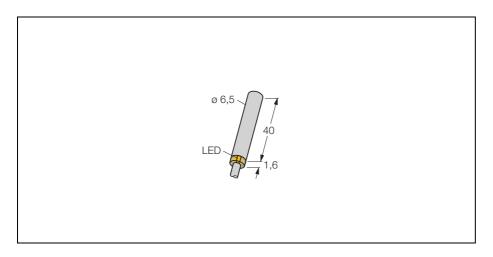
Inductive sensor with extended switching distance Bi2-EH6,5-AN6X



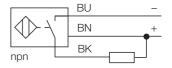


Туре	Bi2-EH6,5-AN6X
Ident-No.	4612300
Rated operating distance Sn	2 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	$St37 = 1$, $V2A \sim 0.7$, $Ms \sim 0.4$, $AI \sim 0.3$
Repeatability	2 %
Temperature drift	± 10 %
Hysteresis	3 15 %
Ambient temperature	-25+ 70 °C
Operating voltage	10 30VDC
Residual ripple	10 % U _{ss}
DC rated operational current	150 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	1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Switching frequency	3 kHz
Housing	smooth barrel, 6.5 mm
Dimensions	41.6 mm
Housing material	metal, AISI 316L
Material active face	plastic, plastic, PA12-GF20
End cap	plastic, PP
Connection	cable
Cable quality	Ø 4, LifYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.25mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
- ·	

LED yellow

- smooth barrel, 6.5 mm diameter
- stainless steel, 1.4404
- large detection range
- 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. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Display switch state

• Edition: • 08.11.2008

Inductive sensor with extended switching distance Bi2-EH6,5-AN6X



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	

