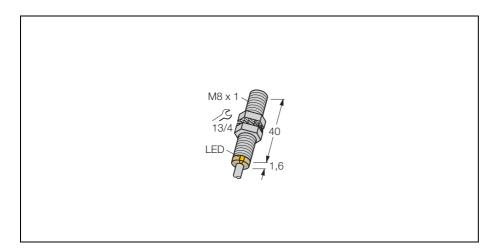
## Inductive sensor with extended switching distance Bi2-EG08-AP6X



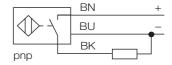


Туре	Bi2-EG08-AP6X
Ident-No.	4602040
Rated operating distance Sn	2 mm
Mounting condition	flush
Assured sensing range	$\leq$ (0,81 x Sn) mm
Correction factors	$St37 = 1$ , $V2A \sim 0.7$ , $Ms \sim 0.4$ , $Al \sim 0.3$
Temperature drift	≤ ± 10 %
Hysteresis	3 15 %
Repeatability	≤ 2 %
Ambient temperature	-25+ 70°C
Operating voltage	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, pnp
Switching frequency	≤3 kHz
Housing	threaded barrel, M8 x 1
Dimensions	41.6 x 8 mm
Housing material	metal, AISI 316L
Material active face	plastic, plastic, PA12-GF20
End cap	plastic, PP
Tightening torque of housing nut	10 Nm
Connection	cable
Cable quality	Ø 4, LifYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.25mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67

LED yellow

- threaded barrel, M8 x 1
- stainless steel, 1.4404
- large detection range
- 3-wire DC, 10...30 VDC
- normally open, pnp 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