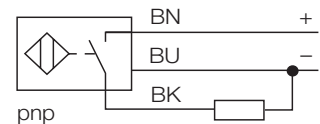


- threaded barrel, M18 x 1
- stainless steel, 1.4301
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- cable connection

#### Wiring diagram



#### Function principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

<b>Type</b>	Bi5U-EM18-AP6X
Ident-No.	1635300
<b>Rated operating distance Sn</b>	5 mm
Mounting condition	flush
Assured switching distance	≤ (0,81 x Sn) mm
Repetition accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3... 15 %
ambient temperature	-30 ... + 85 °C
<b>Operating voltage</b>	10... 30 V DC
Residual ripple	≤ 10 % U <sub>SS</sub>
DC rated operational current	≤ 200 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 dip at I <sub>e</sub>	≤ 1.8 V
Wire breakage / reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Insulation class	□
Switching frequency	≤ 2.5 kHz
<b>Housing style</b>	threaded barrel; M18 x 1
Dimensions	54 mm
Housing material	metal, A2 1.4301 (AISI 304)
Material active area	plastic, PBT
End cap	plastic, EPTR
Housing nut tightening torque	25 Nm
Connection	cable
cable quality	Ø 5.2, LifYY, PVC, 2 m
Cable cross section:	3 x 0.34 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP68
<b>Switch state display</b>	LED yellow