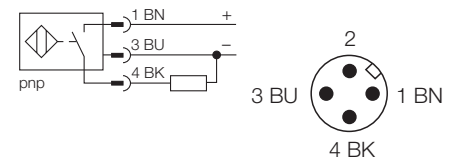


- rectangular, height 25 mm
- sensor housing, GD-CuZn 12
- front cap made of Duroplast, especially temperature and impact resistant
- 4 selectable connector positions
- turnable sensor head (5 positions)
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- connector, M12 x 1

Type	Bi10U-CA25-AP6X2-H1141
Ident-No.	1625631
Rated operating distance Sn	10 mm
Mounting condition	flush
Assured switching distance	≤ (0,81 x Sn) mm
Repetition accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
ambient temperature	3... 15 % -30 ... + 85 °C
Operating voltage	10... 30 V DC
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 dip at I _e	≤ 1.8 V
Wire breakage / reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Insulation class	□
Switching frequency	≤ 0.25 kHz
Housing style	rectangular; CA25
Dimensions	40 x 25 x 25 mm
Housing material	metal, GD-CuZn 12
Material active area	plastic, Duroplast
Connection	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP67
Operating voltage display	LED green
Switch state display	LED yellow

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.