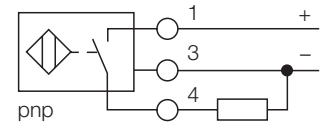


- rectangular, height 40 mm
- 9 selectable sensor head positions
- plastic, PBT-GF30-V0
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- terminal chamber

Type	Bi15U-CP40-AP6X2
Ident-No.	1623500
Rated operating distance Sn	15 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	-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; CP40
Dimensions	114x 40x 40mm
Housing material	plastic, PBT-GF30-V0, black
Material active area	plastic, PA6-GF30-X, yellow
Connection	terminal chamber
Clamping ability	≤ 2.5 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP68
Operating voltage display	LED green
Switch state display	LED yellow

Wiring diagram

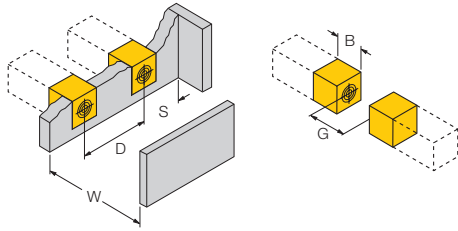


Function principle

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.

Mounting instructions	minimum distances
Distance D	80 mm
Distance W	45 mm
Distance S	40 mm
Distance G	90 mm

Width of the active area B	40 mm
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Accessories

Type code	Ident-No.	Short text	Dimension drawing
SG40	69500	protective housing; housing material: PA (per UL94/V-2); cover: PBT-GF30; for harsh environments; protection degree IP68, 5 m w.g.	<p>The dimension drawings show three accessories: 1. A protective housing (top) with dimensions: length 75, width 20, height 27, and a mounting hole diameter of 13.0. 2. An M20 x 1.5 cable gland (middle) with a diameter of 25 and a length of approximately 38. 3. A mounting rail (bottom) with a width of 40, a length of 70, and a hole diameter of 5.3.</p>
M20 x 1,5/LAPP 5-10	6965902	cable glands M20 x 1,5	
JS 025/037	69429	mounting rail; material: VA 1.4301	