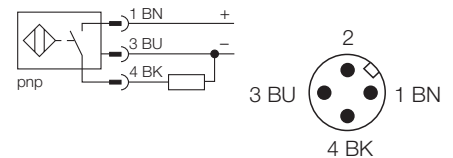


- Rectangular, height 40 mm
- variable orientation of active face in 5 directions
- sensor housing GD-ALSI 12
- plastic, Duroplast
- factor 1 for all metals
- magnetic field immune
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- connector, M12 x 1

Wiring diagram



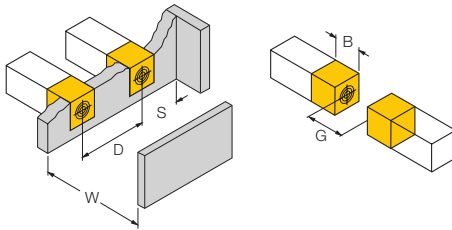
Functional principle

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.

Type	Bi20U-CA40-AP6X2-H1141
Ident-No.	1627200
Rated operating distance Sn	20 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Repeatability	2 %
Temperature drift	± 10 %
Hysteresis	3... 15 %
Ambient temperature	0...+ 70 °C
Operating voltage	10... 30VDC
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 drop at I _e	1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Insulation class	
Switching frequency	0.25 kHz
Housing	rectangular, CA40
Dimensions	48 x 40 x 40 mm variable orientation of active face in 5 directions
Housing material	metal, GD-ALSi 12
Material active face	plastic, Duroplast
Connection	connectors, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	LED yellow
Included in scope of supply	BS1-CK40

Mounting instructions	minimum distances
Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

Width of the active face B	40 mm
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Accessories

Type code	Ident-No.	Short text	Dimension drawing
BSS-CP40	6901318	fixing clamp; material: polypropylene	