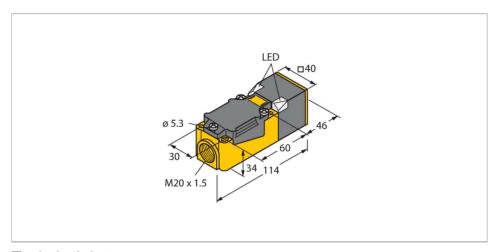


BI20U-CP40-VP4X2 Inductive Sensor – With Extended Switching Distance



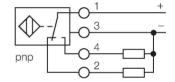
Technical data

Туре	BI20U-CP40-VP4X2	
ID	1627240	
General data		
Rated switching distance	20 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ±10 %	
Hysteresis	315 %	
Electrical data		
Operating voltage U _B	1065 VDC	
Ripple U _{ss}	≤ 10 % U _{Bmax}	
DC rated operating current I _o	≤ 200 mA	
No-load current	≤ 15 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	0.5 kV	
Short-circuit protection	yes/Cyclic	
Voltage drop at I _e	≤ 1.8 V	
Wire break/reverse polarity protection	yes/Complete	
Output function	4-wire, Complementary contact, PNP	
DC field stability	300 mT	
AC field stability	300 mT _{ss}	
Insulation class		
Switching frequency	0.25 kHz	

Features

- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- ■Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum view on supply voltage and switching state from any position
- Factor 1 for all metals
- ■Protection class IP68
- Resistant to magnetic fields
- Large coverage
- High switching frequency
- ■DC 4-wire, 10...65 VDC
- Changeover contact, PNP output
- ■Terminal chamber

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

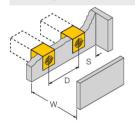


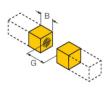
Technical data

Mechanical data	
Design	Rectangular, CP40
Dimensions	114 x 40 x 40 mm
Housing material	Plastic, PBT-GF30-V0, Black
Active area material	Plastic, PA6-GF30-X, yellow
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
Environmental conditions	
Ambient temperature	-30+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	2 × LEDs, Green
Switching state	2 × LEDs, Yellow

Mounting instructions

Mounting instructions/Description





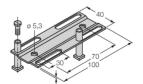
Distance D	80 mm
Distance W	60 mm
Distance S	40 mm
Distance G	120 mm
Width active area B	40 mm

Accessories

STRM M20X1.5 SCHWARZ	6965902



M20 × 1.5 cable gland	M20	×	1.5	cable	aland
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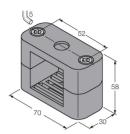
JS025/037

69429
Adjusting bar for rectangular housings
CK/CD40: motorial: \/A 1 4201



BSS-CP40

6901318



Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene