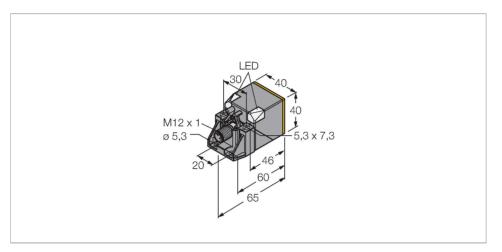


BI20U-QV40-AP6X2-H1141 Inductive Sensor – With Extended Switching Distance





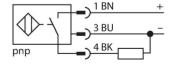
Туре	BI20U-QV40-AP6X2-H1141
ID	1627245
General data	
Rated switching distance	20 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U _в	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 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。	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO 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 5 directions without tools
- ■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 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





Functional principle



Technical data

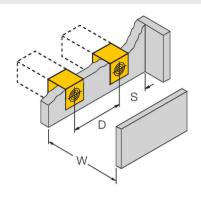
Mechanical data	
Design	Rectangular, QV40
Dimensions	65 x 40 x 40 mm
	variable orientation of active face in 5 directions
Housing material	Plastic, PBT-GF30-V0, Black
Active area material	Plastic, PA6-GF30-X, yellow
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-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
Included in delivery	Fixing clamp for QV40

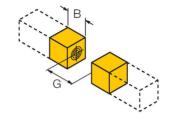
Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.



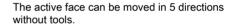
Mounting instructions

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



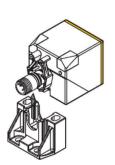
Squeeze the bracket to release the sensor from the fixing clamp. Now, move the active face in the wanted position.

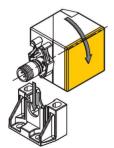
Once the final position is attained, clip in the sensor. The sensor is now securely arrested.

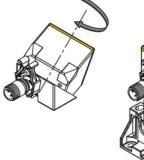


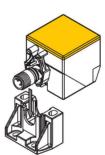










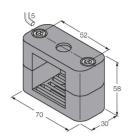




Accessories

BSS-CP40

6901318

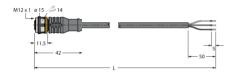


Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene

Wiring accessories

Dimension drawing Type ID

RKC4T-2/TEL 6625010 Connection cable, M12 female



Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval