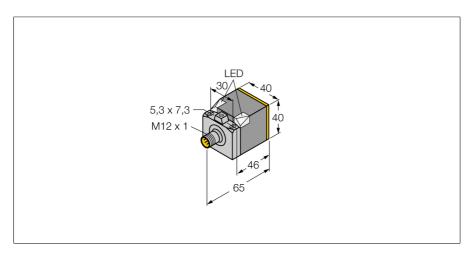


## Inductive Sensor With Extended Switching Distance BI20U-CK40-RP6X2-H1143



BI20U-CK40-RP6X2-H1143

1627206

20 mm

Flush

≤ ±10 %

300 mT<sub>ss</sub>

0.25 kHz

≤ (0.81 × Sn) mm

≤ 2 % of full scale

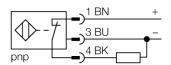


- Rectangular, height 40 mm
  - Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum view on supply voltage and switching state from any position
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large coverage
- High switching frequency
- DC 3-wire, 10...30 VDC
- NC contact, PNP output
- M12 x 1 male connector

Hysteresis	315 %	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	≤ 10 % U <sub>ss</sub>	
DC rated operational current	≤ 200 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	≤ 0.5 kV	
Short-circuit protection	yes/ Cyclic	
Voltage drop at I <sub>e</sub>	≤ 1.8 V	
Wire breakage/Reverse polarity protection	yes/ Complete	
Output function	3-wire, NC contact, PNP	
DC field stability	300 mT	

# Mechanical data Design Rectangular, CK40 Dimensions 65 x 40 x 40 mm variable orientation of active face in 5 directions Housing material Plastic, PBT-GF20-V0, Black Active area material Plastic, PA12-GF30, yellow Electrical connection Connector, M12 × 1

## 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.

Type

General data

Rated switching distance Sn

Secured operating distance

Mounting conditions

Repeat accuracy

Temperature drift

AC field stability

Insulation class

Switching frequency



Environmental conditions		
mbient 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	BS1-CK40	



### **Accessories**

Type code	ldent no.		Dimension drawing
BSS-CP40	6901318	Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene	70 30