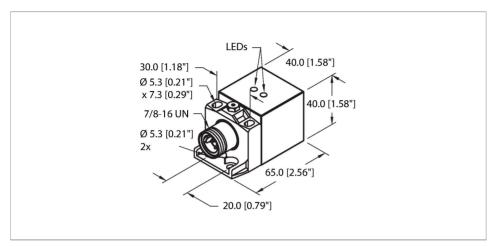


# BI20U-CA40-ADZ30X2-B1131 W/BS 2.1 **Inductive Sensor**



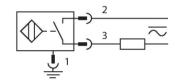
### Technical data

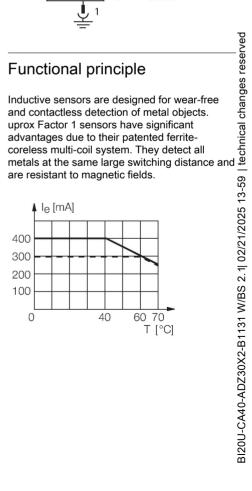
Туре	BI20U-CA40-ADZ30X2-B1131 W/BS 2.1
ID	4283290
General data	
Rated switching distance	20 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Hysteresis	315 %
Electrical data	
Operating voltage U <sub>B</sub>	20250 VAC
Operating voltage U <sub>B</sub>	10300 VDC
AC rated operational current	≤ 400 mA
DC rated operating current I <sub>e</sub>	≤ 300 mA
Frequency	≥ 50≤ 60 Hz
Residual current	≤ 1.7 mA
Isolation test voltage	1.5 kV
Surge current	≤ 3 A (≤ 20 ms max. 5 Hz)
Short-circuit protection	yes/Latching
Voltage drop at I <sub>e</sub>	≤ 6 V
Wire break/reverse polarity protection	yes/Complete
Output function	2-wire, NO contact, 2-wire
DC field stability	300 mT
AC field stability	300 mT <sub>ss</sub>
Smallest operating current	≥ 3 mA

### **Features**

- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Sensor housing GD-ALSI 12
- Active face PA6-GF30
- Factor 1 for all metals
- Resistant to magnetic fields
- High switching frequency
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NO contact
- ■7/8" male connector

## Wiring diagram





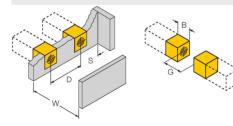


## Technical data

Insulation class	
Switching frequency	0.01 kHz
Mechanical data	
Design	Rectangular, CA40
Dimensions	65 x 40 x 40 mm
	variable orientation of active face in 5 directions
Housing material	Metal, GD-AlSi 12
Active area material	Plastic, PA6-GF30, black
Electrical connection	Connector, 7/8"
Environmental conditions	
Ambient temperature	0+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Switching state	LED, Yellow
Included in delivery	BS2.1-CK40

# Mounting instructions

## Mounting instructions/Description



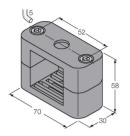
Distance D	2 x B
Distance W	3 x Sn
Distance S	1 × B
Distance G	6 x Sn
Width active area B	40 mm



## Accessories

### BSS-CP40

6901318



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