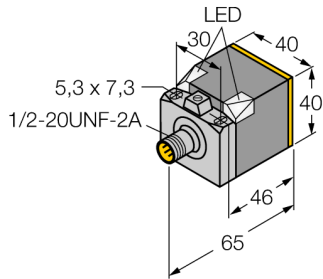


**Inductive sensor**  
**BI15U-CK40-ADZ30X2-B3131**

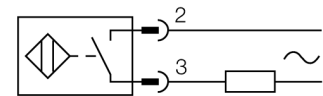
Industrial  
Automation



- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- AC 2-wire, 20...250 VDC
- DC 2-wire, 10...300 VDC
- NO contact
- 1/2" male connector

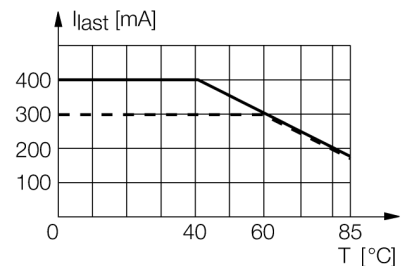
<b>Type designation</b>	BI15U-CK40-ADZ30X2-B3131
Ident no.	4280030
<b>Rated switching distance <math>S_n</math></b>	15 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0,81 \times S_n)$ mm
Repeat accuracy	$\leq 2\%$ of full scale
Temperature drift	$\leq \pm 10\%$
Hysteresis	$3...15\%$
Ambient temperature	$-30...+85\text{ }^\circ\text{C}$
<b>Operating voltage</b>	20...250VAC
Operating voltage	10...300 VDC
AC rated operational current	$\leq 400$ mA
DC rated operational current	$\leq 300$ mA
Frequency	$\geq 50... \leq 60$ Hz
Residual current	$\leq 1.7$ mA
Isolation test voltage	$\leq 1.5$ kV
Surge current	$\leq 3$ A ( $\leq 20$ ms max. 5 Hz)
Short-circuit protection	yes/ Latching
Voltage drop at $I_L$	$\leq 6$ V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	2-wire, NO contact
Reverse polarity protection	Complete
Smallest operating current $I_m$	$\geq 3$ mA
Protection class	IP68
Switching frequency	0.01 kHz
<b>Design</b>	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, 1/2"
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
<b>Power-on indication</b>	LED green
Switching state	LED yellow
Included in delivery	BS1-CK40

**Wiring Diagram**



**Functional principle**

Inductive sensors detect metal objects contactless and wear-free. uprox® Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.



**Inductive sensor  
BI15U-CK40-ADZ30X2-B3131**

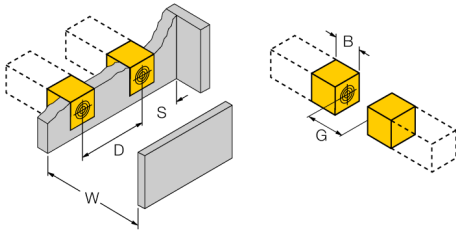
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<b>Distance D</b>	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

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<b>Width active area B</b>	40 mm
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**Accessories**

Type code	Ident no.	Description	
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	