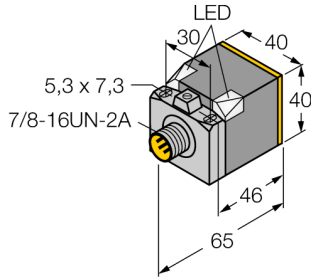


**Inductive sensor  
BI15U-CK40-ADZ30X2-B1131**

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 VAC
- 2-wire DC, 10...300 VDC
- NO contact
- Male 7/8"

**Type code** BI15U-CK40-ADZ30X2-B1131  
**Ident no.** 4280010

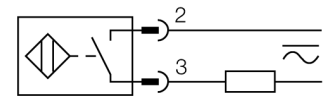
**Rated operating distance Sn** 15 mm  
Mounting condition flush  
Assured sensing range ≤ (0,81 x Sn) mm  
Repeatability ≤ 2 % of full scale  
Temperature drift 10 %  
≤ ± 15 %, ≤ -25 °C v ≥ +70 °C  
Hysteresis 3...15 %  
Ambient temperature -30...+85 °C

**Operating voltage** 20...250 VAC  
Operating voltage 10...300VDC  
AC rated operational current ≤ 400 mA  
DC rated operational current ≤ 300 mA  
Frequency ≥ 50...≤ 60 Hz  
Residual current ≤ 1.7 mA  
Rated insulation voltage ≤ 1.5 kV  
Surge current ≤ 3 A (≤ 20 ms max. 5 Hz)  
Short-circuit protection yes/ latching  
Voltage drop at I<sub>s</sub> ≤ 6 V  
Wire breakage / Reverse polarity protection yes/ complete  
Output function 2-wire, NO contact  
Smallest operating current I<sub>min</sub> ≤ 3 mA  
Protection class □  
Switching frequency 0.01 kHz

**Design** rectangular, CK40  
**Dimensions** 65 x 40 x 40 mm  
variable orientation of active face in 5 directions  
**Housing material** plastic, PBT, black  
**Connection** male, 7/8"  
**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

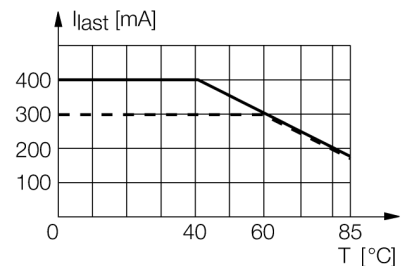
**Power-on indication** LED green  
**Switching state** LED yellow  
**Included in scope of supply** BS1-CK40

**Wiring diagram**



**Functional principle**

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multicoil system, uprox®+ sensors have distinct advantages over conventional sensors. They detect all metals at the same large switching distance and are resistant to magnetic fields.



**Inductive sensor  
BI15U-CK40-ADZ30X2-B1131**

---

Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

---

Width of the active face B	40 mm
----------------------------	-------

---



**Accessories**

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