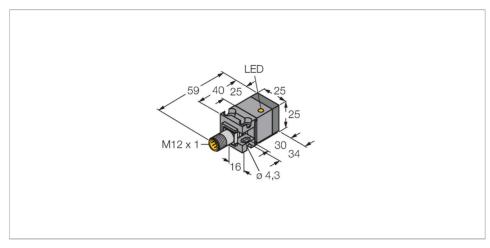


BI10U-CA25-AP6X2-H1141 **Inductive Sensor**



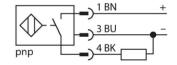
Technical data

Туре	BI10U-CA25-AP6X2-H1141	
ID	1625631	
General data		
Rated switching distance	10 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ±10 %	
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C	
Hysteresis	315 %	
Electrical data		
Operating voltage U _B	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 _e	≤ 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		

Features

- Rectangular, height 25 mm
- Sensor housing, GD-CuZn 12
- Duroplast front cap, very resistant to thermal and mechanical load
- Relocatable connector, 4 positions
- Variable orientation of active face in 5 directions
- Factor 1 for all metals
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





Functional principle

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

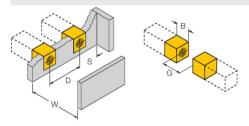


Technical data

Switching frequency	0.25 kHz
Mechanical data	
Design	Rectangular, CA25
Dimensions	40 x 25 x 25 mm
	variable orientation of active face in 5 directions
Housing material	Metal, GD-CuZn 12
Active area material	Plastic, Duroplast, black
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	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Switching state	LED, Yellow

Mounting instructions

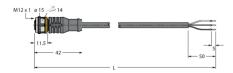
Mounting instructions/Description



Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
Width active area B	25 mm

Wiring accessories

Dimension drawing	Туре	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