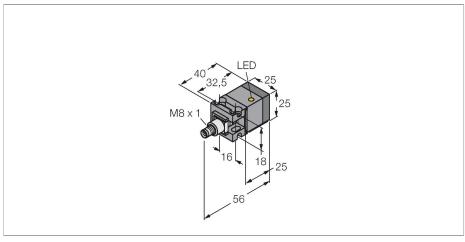


## BI10U-CA25-AP6X2-V1131 Inductive Sensor



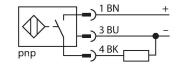
#### Technical data

Type	BI10U-CA25-AP6X2-V1131		
ID	1625632		
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 <sub>B</sub>	1030 VDC		
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>		
DC rated operating current I.	≤ 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 <sub>e</sub>	≤ 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 <sub>ss</sub>		
Insulation class			
Switching frequency	0.25 kHz		
Mechanical data			
Design	Rectangular, CA25		

#### **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
- ■M8 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

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, M8 × 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

#### Accessories

Dimension drawing	Туре	ID	
M8 x 1 o 9.6	PKG3M-2/TEL	6625058	Connection cable, M8 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

