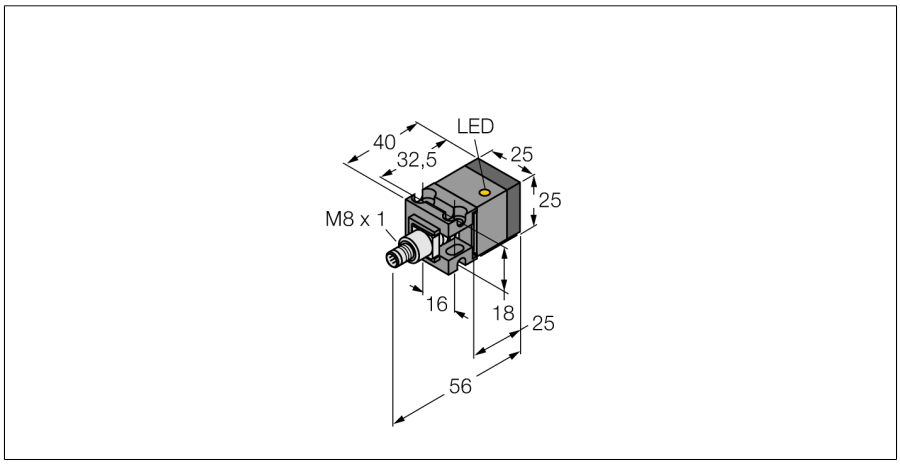
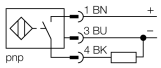
Inductive sensor
BI10U-CA25-AP6X2-V1131

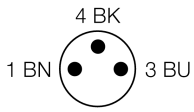


- **Rectangular, height 25 mm**
- **Sensor housing, GD-CuZn 12**
- **Duroplast front cap, very resistant to thermal and mechanical load**
- **4 selectable connector positions**
- **Variable orientation of active face in 5 directions**
- **Factor 1 for all metals**
- **Resistant to magnetic fields**
- **Extended temperature range**
- **High switching frequency**
- **3-wire DC, 10…30 VDC**
- **NO contact, PNP output**
- **Male M8 x 1**

Type code	BI10U-CA25-AP6X2-V1131
Ident no.	1625632
Rated operating distance Sn	10 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	10…30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protection class	⧈
Switching frequency	0.25 kHz
Design	rectangular, CA25
Dimensions	40 x 25 x 25 mm
	variable orientation of active face in 5 directions
Housing material	metal, GD-CuZn 12
Connection	male, M8 x 1
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

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.

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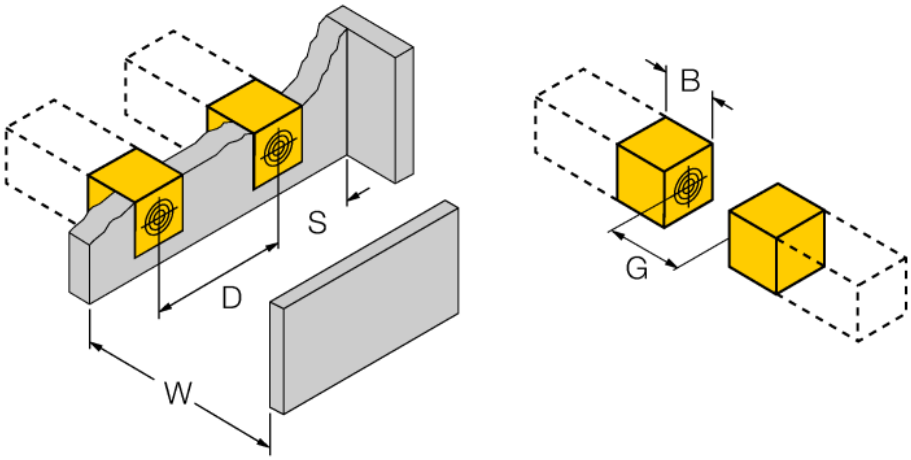
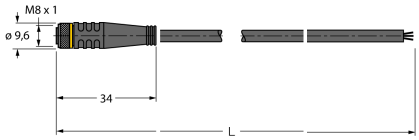
Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

Width of the active face B	25 mm



Wiring accessories

Type code	Ident no.	Description	Dimension drawing
PKG3M-2/TEL	6625058	Connection cable, female M8, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	

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