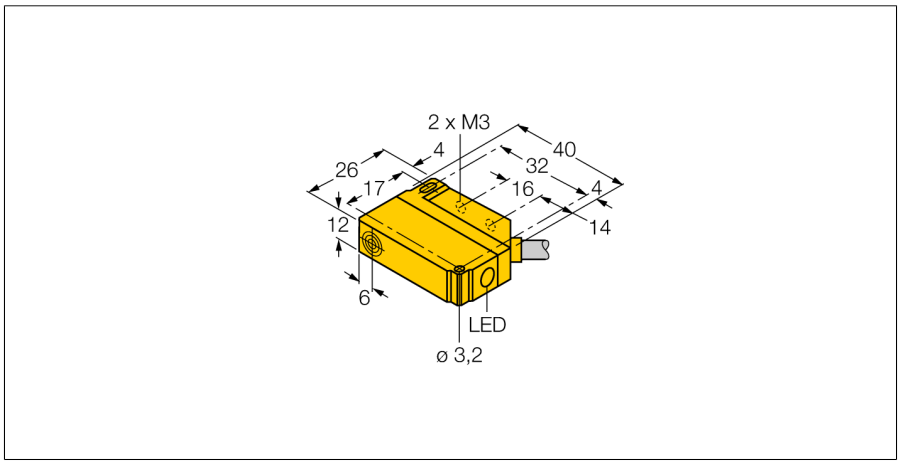
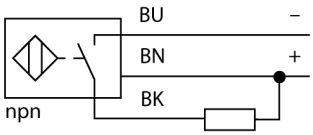
Inductive sensor
BI5U-Q12-AN6X2



- **Rectangular, height 12 mm**
- **Active face, lateral**
- **Plastic, PBT-GF30-V0**
- **Factor 1 for all metals**
- **Increased switching distance**
- **Protection class IP68**
- **Resistant to magnetic fields**
- **Mountable on metal**
- **DC 3-wire, 10…30 VDC**
- **NO contact, NPN output**
- **Cable connection**

Type designation	BI5U-Q12-AN6X2
Ident-No.	1635523
Rated switching distance Sn	5 mm
Mounting conditions	Flush
Secured operating distance	≤ (0,81 x Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 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 breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, NPN
Switching frequency	1 kHz
Design	Rectangular,Q12
Dimensions	40 x 26 x 12 mm
Housing material	Plastic, PA12-GF30
Electrical connection	Cables
Cable quality	4mm, LifYY-11Y, PUR, 2
Cable cross section	3 x 0.25 mm²
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
Packaging unit	1
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 multi-coil system, *uprox*®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

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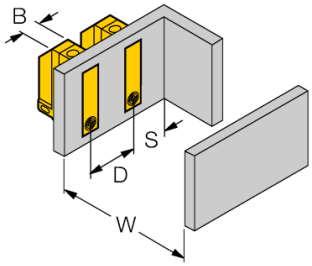
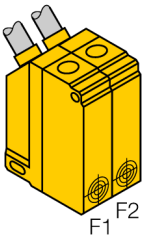
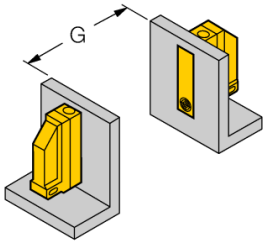
Distance D	48 mm
Distance W	25 mm
Distance S	12 mm
Distance G	50 mm
Width active area B	12 mm







The sensors can be mounted directly side by side if a sensor with offset oscillation frequency Bi5U-Q12…/F2 is used.

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