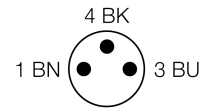
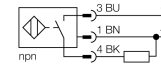


- Rectangular, height 12 mm
- Active face, lateral
- Plastic, PBT-GF30-V0
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Resistant to magnetic fields
- Mountable on metal
- 3-wire DC, 10...30 VDC
- NO contact, NPN output
- Male M8 x 1

**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.

<b>Type code</b>	BI5U-Q12-AN6X2-V1131
<b>Ident no.</b>	1635525
<b>Rated operating distance Sn</b>	5 mm
<b>Mounting condition</b>	flush
<b>Assured sensing range</b>	≤ (0,81 x Sn) mm
<b>Repeatability</b>	≤ 2 % of full scale
<b>Temperature drift</b>	10 %
<b>Hysteresis</b>	3...15 %
<b>Ambient temperature</b>	-25...+70 °C
<b>Operating voltage</b>	10...30VDC
<b>Residual ripple</b>	≤ 10 % U <sub>is</sub>
<b>DC rated operational current</b>	≤ 200 mA
<b>No-load current I<sub>0</sub></b>	≤ 15 mA
<b>Residual current</b>	≤ 0.1 mA
<b>Rated insulation voltage</b>	≤ 0.5 kV
<b>Short-circuit protection</b>	yes/ cyclic
<b>Voltage drop at I<sub>0</sub></b>	≤ 1.8 V
<b>Wire breakage / Reverse polarity protection</b>	yes/ complete
<b>Output function</b>	3-wire, NO contact, NPN
<b>Switching frequency</b>	1 kHz
<b>Design</b>	rectangular, Q12
<b>Dimensions</b>	40 x 26 x 12 mm
<b>Housing material</b>	plastic, PA
<b>Connection</b>	male, M8 x 1
<b>Vibration resistance</b>	55 Hz (1 mm)
<b>Shock resistance</b>	30 g (11 ms)
<b>Protection class</b>	IP68
<b>MTTF</b>	874 years acc. to SN 29500 (Ed. 99) 40 °C
<b>Power-on indication</b>	LED green
<b>Switching state</b>	LED yellow

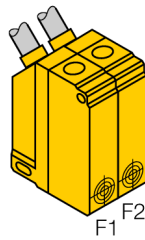
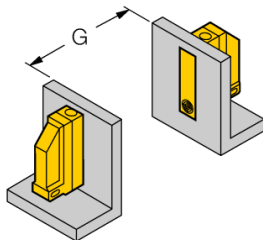
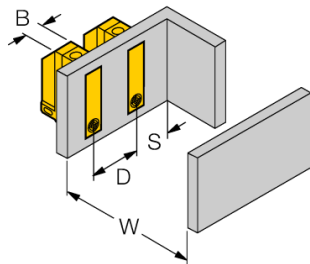
---

Distance D	48 mm
Distance W	25 mm
Distance S	12 mm
Distance G	50 mm

---

Width of the active face B	12 mm
----------------------------	-------

---



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

**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 <a href="http://www.turck.com">www.turck.com</a>	