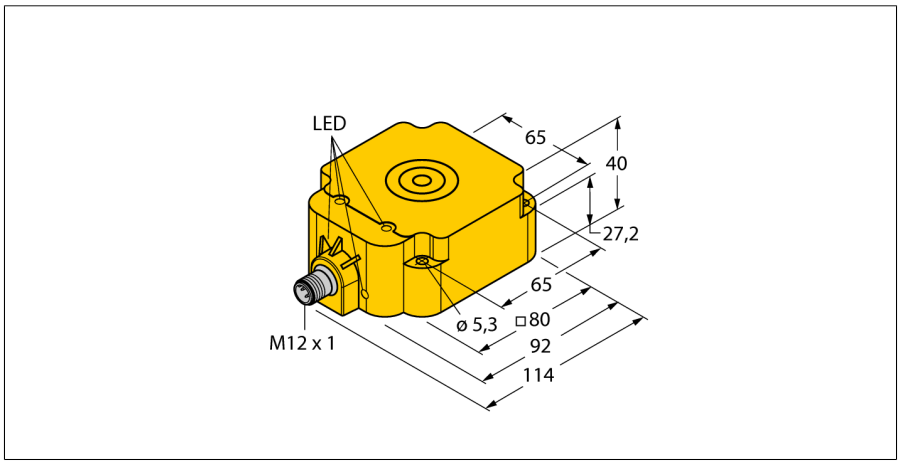
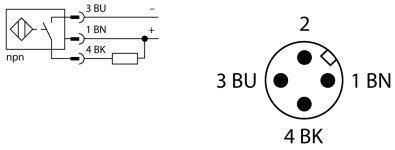
Inductive sensor
BI50U-Q80-AN6X2-H1141

Industrial Automation



- **Rectangular, height 40 mm**
- **Active face on top**
- **Plastic, PBT-GF30-V0**
- **Factor 1 for all metals**
- **Increased switching distance**
- **Protection class IP68**
- **Resistant to magnetic fields**
- **DC 3-wire, 10…30 VDC**
- **NO contact, NPN output**
- **M12 x 1 male connector**

Wiring Diagram



Type designation	BI50U-Q80-AN6X2-H1141
Ident-No.	1608944
Rated switching distance Sn	50 mm
Mounting conditions	Flush
Secured operating distance	≤ (0,81 x Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	1…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
Protection class	⧈
Switching frequency	0.25 kHz
Design	Rectangular,Q80
Dimensions	92 x 80 x 40 mm
Housing material	Plastic, PBT-GF30-V0, Yellow
Tightening torque fixing screw	4 Nm
Electrical connection	Connector, M12 × 1
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
Power-on indication	LED,Green
Switching state	LED,Yellow

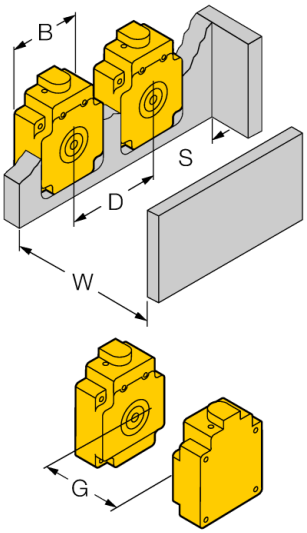
Functional principle

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.

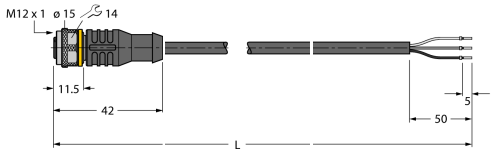
Edition • 2018-04-04T20:33:40+02:00

Distance D	240 mm
Distance W	150 mm
Distance S	80 mm
Distance G	300 mm

Width active area B	80 mm



Wiring accessories

Type code	Ident-No.	Description	
RKC4T-2/TEL	6625010	Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	

Edition • 2018-04-04T20:33:40+02:00