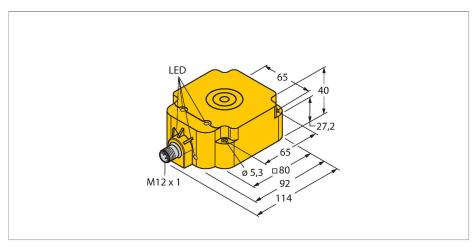


# BI50U-Q80-VP6X2-H1141 Inductive Sensor – With Extended Switching Distance



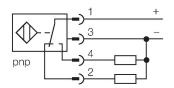
#### Technical data

Туре	BI50U-Q80-VP6X2-H1141
ID	1562007
General data	
Rated switching distance	50 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	115 %
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 <sub>e</sub>	≤ 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	4-wire, Complementary 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, Q80
Dimensions	92 x 80 x 40 mm

#### **Features**

- Rectangular, height 40 mm
- Active face on top
- ■Plastic, PBT-GF30-V0
- Factor 1 for all metals
- ■Increased switching distance
- Increased switching distant
- ■Protection class IP68
- Resistant to magnetic fields
- DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- ■M12 x 1 male connector

### Wiring diagram





#### Functional principle

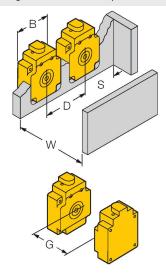
Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

## Technical data

Housing material	Plastic, PBT-GF30-V0, Yellow
Active area material	PBT-GF30-V0, yellow
Tightening torque fixing screw	4 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-25+70 °C
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
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## Mounting instructions

#### Mounting instructions/Description



Distance D	240 mm
Distance W	150 mm
Distance S	80 mm
Distance G	300 mm
Width active area B	80 mm