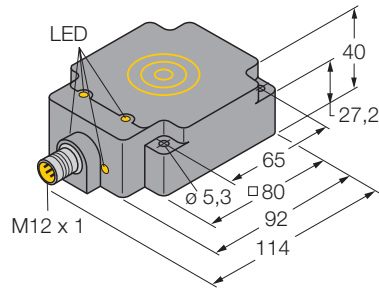
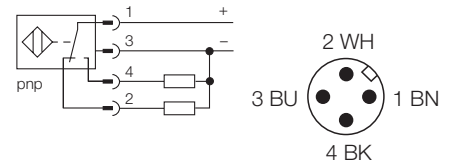


Inductive sensor with extended switching distance Bi50U-Q80-VP4X2-H1141



- rectangular, height 40 mm
- top active face
- plastic, PBT-GF30-V0
- factor 1 for all metals
- magnetic field immune
- extended switching distance
- extended temperature range
- high switching frequency
- 4-wire DC, 10...65 VDC
- SPDT, pnp output
- connector, M12 x 1

Wiring diagram



Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. Due to a ferrite-less 3-coil system, Uprox factor 1 sensor have distinct advantages. The detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

Type	Bi50U-Q80-VP4X2-H1141
Ident-No.	1562000
Rated operating distance S_n	50 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	0 ...+ 50 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	≤ 10 % U_{pp}
Rated operational current (DC) I_e	≤ 200 mA
No-load current I_0	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,25 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	4-wire, complementary, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Protection class	□
Housing style	rectangular; Q80
Dimensions	92 x 80 x 40 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow

**Inductive sensor
with extended switching distance
Bi50U-Q80-VP4X2-H1141**

Mounting instructions

Gap D	minimum gap 3 x B
Gap W	3 x Sn
Gap S	1 x B
Gap G	6 x Sn

Width of active face B80 mm

