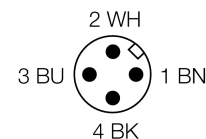
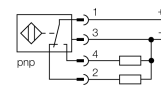


- Rectangular, height 40 mm
- Active face on top
- Plastic, PPS-GF30
- Factor 1 for all metals
- Extended switching distance
- Protection class IP68
- Magnetic field immune
- Predamping protection through self-compensation
- One-sided fitting possible
- DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- M12 x 1 connector

Wiring diagram



Functional principle

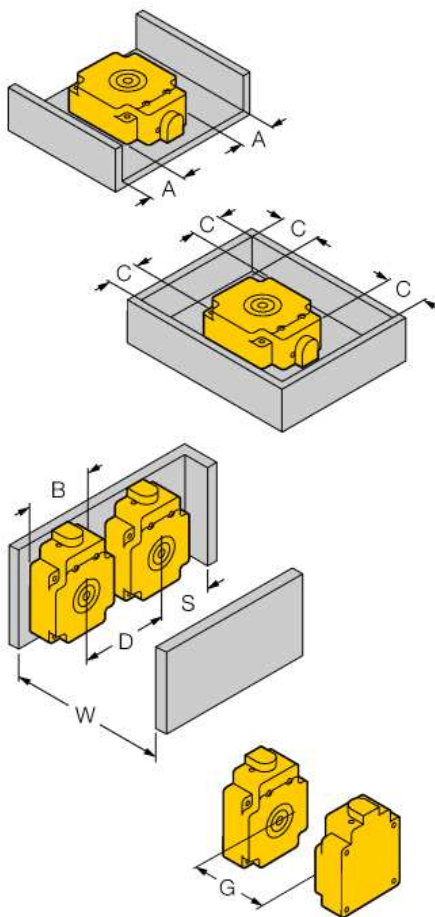
Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *Uprox[®]+* sensors have distinct advantages compared to conventional sensors. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Type code	Ni75U-Q80WD-VP6X2-H1141
Ident no.	1625920
Rated operating distance Sn	75 mm
Mounting condition	non-flush, partially embeddable
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, changover contact, PNP
Protection class	□
Switching frequency	0.25 kHz
Design	rectangular, Q80WD
Dimensions	102x 83x 40 mm
Housing material	Plastic, PPS-GF30, black
Connection	male, M12 x 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
Operating voltage	LED green
Switching state	● yellow
Included in scope of supply	1x SP-Q80 (6901169)

**Inductive sensor
for harsh environments
Ni75U-Q80WD-VP6X2-H1141**

Distance D	240 mm
Distance W	225 mm
Distance S	60 mm
Distance G	450 mm
Distance A	20 mm
Distance C	80 mm

Width of the active face B	80 mm
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Mounting on metal: $S_r = 75 \text{ mm}$

1-side flush mounting: $S_r = 50 \text{ mm}$

2-side flush mounting: $S_r = 45 \text{ mm}$

3-side flush mounting: $S_r = 40 \text{ mm}$

4-side flush mounting: $S_r = 40 \text{ mm}$

recessed mounting without metal base plate: $S_r = 65 \text{ mm}$

The values stated relate to a standard 1 mm thick sheet steel.

Switching distances with different target sizes:

Sheet steel 150 x 150 mm: $S_n = 65 \text{ mm}$

Sheet steel 60 x 60 mm: $S_n = 50 \text{ mm}$

Sheet steel 40 x 40 mm: $S_n = 40 \text{ mm}$

Sheet steel 120 x 40 mm: $S_n = 45 \text{ mm}$

Wiring accessories

Type code	Ident no.	Description	Dimension drawing
RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	