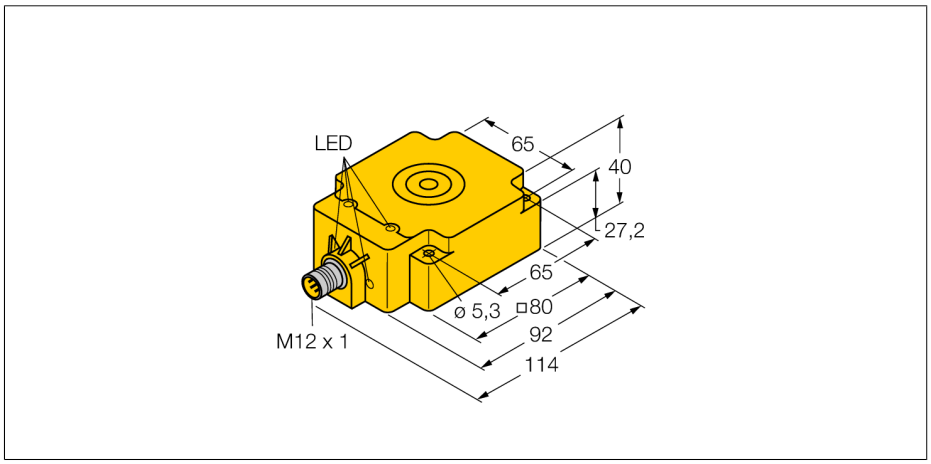
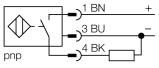
Inductive sensor
NI75U-Q80-AP6X2-H1141

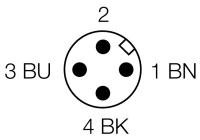


Type	NI75U-Q80-AP6X2-H1141
Ident-No.	1625855
Rated operating distance Sn	75 mm
Mounting condition	non-flush, partially embeddable
Repeatability	≤ 2 %
Temperaturdrift	10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 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_e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protection class	⧈
Switching frequency	0.25 kHz
Design	rectangular, Q80
Dimensions	92 x 80 x 40 mm
Housing material	Plastic, PBT-GF30-V0, yellow
Connection	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874years acc. to SN 29500 (Ed. 99) 40 °C
Operating voltage	LED green
Switching state	LED yellow

- **Rectangular, height 40 mm**
- **Active face on top**
- **Plastic, PBT-GF30-V0**
- **4 LEDs for optimum view on supply voltage and switching state from any position**
- **Factor 1 for all metals**
- **Extended switching distance**
- **Protection class IP68**
- **Magnetic field immune**
- **Predamping protection through self-compensation**
- **Partial embedding**
- **DC 3-wire, 10…30 VDC**
- **NO 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.

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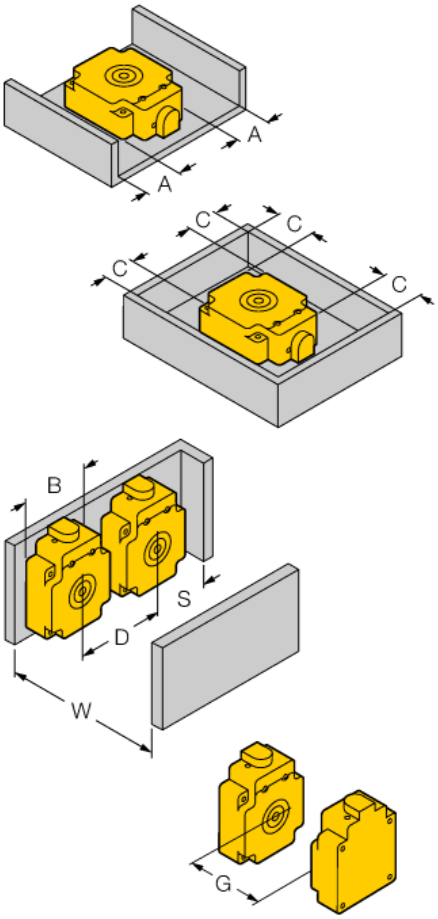
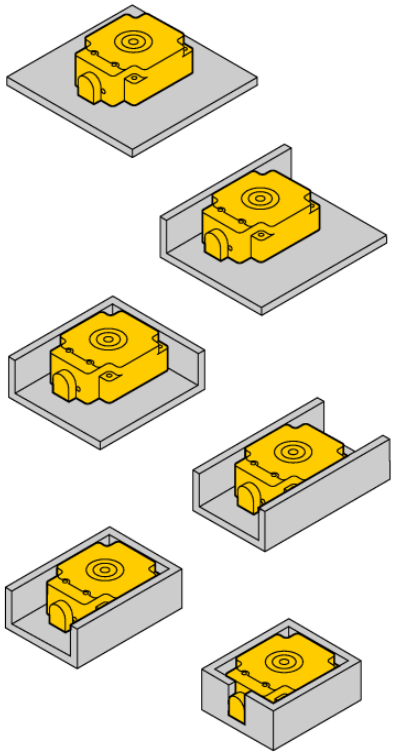
Mounting instructions	minimum distances
Distance D	240 mm
Distance W	225 mm
Distance S	60 mm
Distance G	450 mm
Distance A	20 mm
Distance C	80 mm

Width of the active face B	80 mm





Mounting on metal: Sr = 75 mm

1-side mounting: Sr = 50 mm

2-side mounting: Sr = 45 mm

3-side mounting: Sr = 40 mm

4-side mounting: Sr = 40 mm

recessed mounting without metal baseplate: Sr = 65 mm

The values stated relate to a 1 mm thick steel plate.

Switching distances with different target sizes:

Sheet steel 150 x 150 mm: Sn = 65 mm
Sheet steel 60 x 60 mm: Sn = 50 mm
Sheet steel 40 x 40 mm: Sn = 40 mm
Sheet steel 120 x 40 mm: Sn = 45 mm (simulation of a skid runner)

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