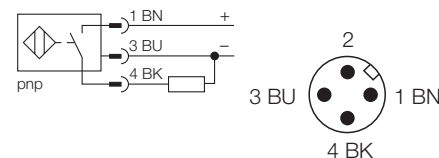


- rectangular, height 40 mm
- top active face
- Plastic, PBT-GF30-V0
- 4 LEDs for optimum visibility of operating-voltage display and switching state in any installation position
- factor 1 for all metals
- extended switching distance
- degree of protection IP68
- magnetic field immune
- predamping protection through self-compensation
- partial embedding possible
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- connector, M12 x 1

Type	Ni75U-Q80-AP6X2-H1141
Ident-No.	1625855
Rated operating distance Sn	75 mm
Mounting condition	non-flush, partial embedding possible
Repeatability	≤ 2 %
Temperature drift	≤ ± 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	≤ 1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Insulation class	□
Switching frequency	≤ 0.25 kHz
Housing	rectangular, Q80
Dimensions	92 x 80 x 40 mm
Housing material	plastic, PBT-GF30-V0, yellow
Material active face	plastic, PBT-GF30-V0, yellow
Connection	connectors, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP68
Operating voltage display	LED green
Display switch state	LED yellow

Wiring diagram

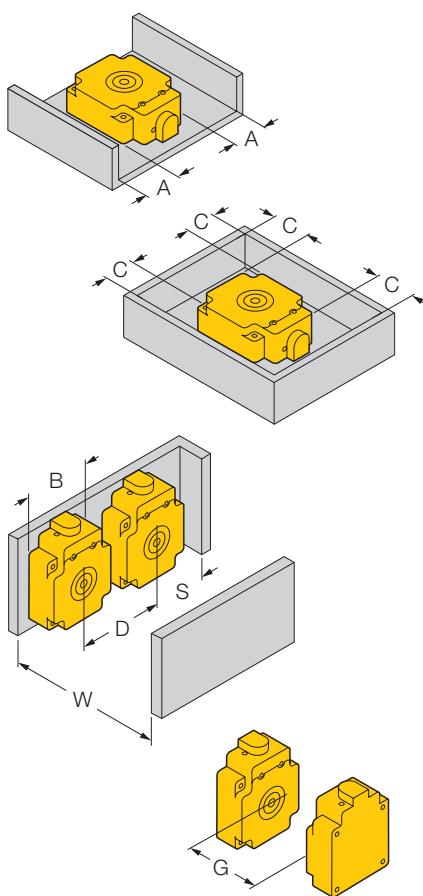


Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. uprox+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardisation.

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: $S_r = 75 \text{ mm}$

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

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

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

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

non-flush mounting without metal base plate: $S_r = 65 \text{ mm}$

The values stated relate to 1 mm thick steel plate.

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: $S_n = 45 \text{ mm}$ (simulation of a skid runner)