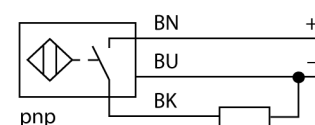


- Rectangular, height 8 mm
- Active face on top
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Resistant to magnetic fields
- Auto-compensation protects against pre-attenuation
- Flush mounted installation on up to 4 sides
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Type designation	NI4U-Q8SE-AP6X
Ident-No.	4635807
Rated switching distance S_n	4 mm
Mounting conditions	Non-flush, flush mountable
Secured operating distance	$\leq (0,81 \times S_n)$ mm
Repeat accuracy	$\leq 2\%$ of full scale
Temperature drift	$\leq \pm 10\%$
Hysteresis	$\leq \pm 15\%$, $\leq -25^\circ\text{C}$ v $\geq +70^\circ\text{C}$
Ambient temperature	$-30\ldots+85^\circ\text{C}$

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 over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

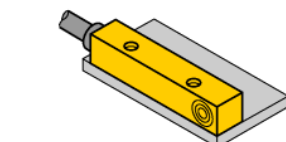
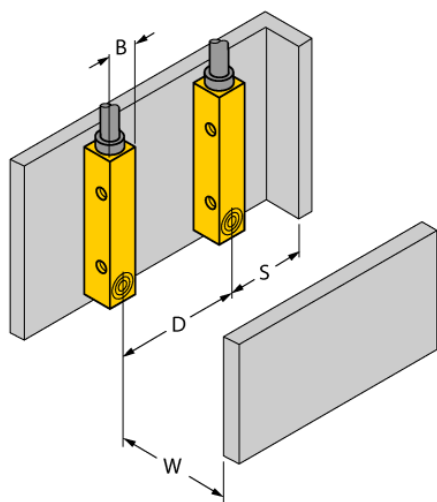
Operating voltage	10...30 VDC
Residual ripple	$\leq 10\%$ U_{ss}
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes/ Cyclic
Voltage drop at I_0	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, PNP
Protection class	IP68
Switching frequency	1 kHz

Design	Rectangular, Q8SE
Dimensions	40 x 8 x 8 mm
Housing material	Plastic, PP, Yellow
Tightening torque	≤ 0.6 Nm
Electrical connection	Cable
Cable quality	3mm, Gray, Lif9Y-11Y, PUR, 2 Suited for E-ChainSystems® acc. to manufacturers declaration H1063M
Cable cross section	3 x 0.14 mm ²
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

Switching state	LED, Yellow
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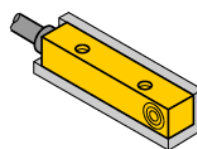
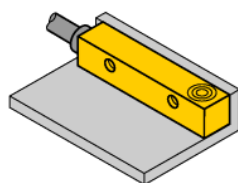
Distance D	24 mm
Distance W	12 mm
Distance S	12 mm
Distance G	24 mm

Width active area B	8 mm
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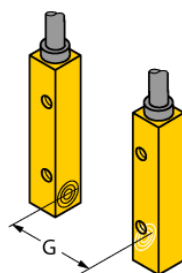


Flush mounting on 4 sides

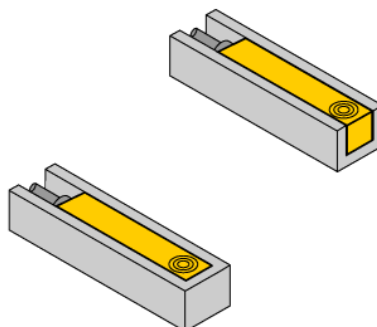
1-side mounting:
Sr = 3,5 mm



2-side mounting:
Sr = 3,0 mm



3-side mounting:
Sr = 2,5 mm



4-side mounting:
Sr = 2,0 mm