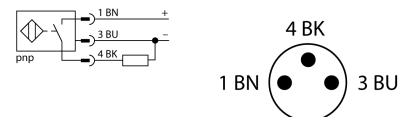


- Rectangular, height 8 mm
- Active face on top
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Resistant to magnetic fields
- Auto-compensation protects against pre-attenuation
- Flush mounted installation on up to 4 sides
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M8 x 1 male connector

Type designation	NI4U-Q8SE-AP6X-V1131
Ident-No.	4635808
Rated switching distance S_n	4 mm
Mounting conditions	Non-flush, flush mountable
Secured operating distance	$\leq (0,81 \times S_n) \text{ mm}$
Repeat accuracy	$\leq 2 \% \text{ of full scale}$
Temperature drift	$\leq \pm 10 \%$
	$\leq \pm 15 \%, \leq -25^\circ\text{C} \vee \geq +70^\circ\text{C}$
Hysteresis	3...15 %
Ambient temperature	-30...+85 °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.

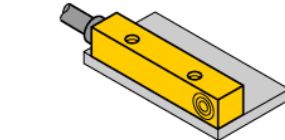
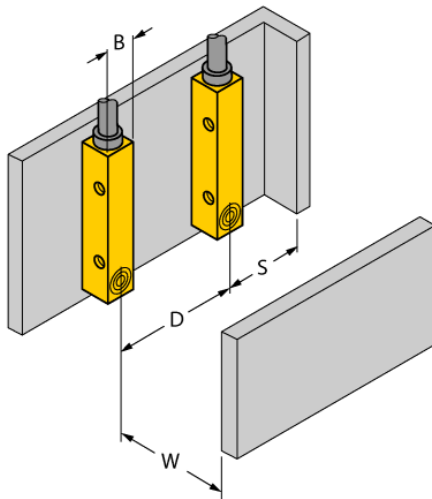
Operating voltage	10...30 VDC
Residual ripple	$\leq 10 \% U_{ss}$
DC rated operational current	$\leq 150 \text{ mA}$
No-load current I_0	$\leq 15 \text{ mA}$
Residual current	$\leq 0.1 \text{ mA}$
Isolation test voltage	$\leq 0.5 \text{ kV}$
Short-circuit protection	yes/ Cyclic
Voltage drop at I_0	$\leq 1.8 \text{ V}$
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	$\leq 0.6 \text{ Nm}$
Electrical connection	Connector, M8 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

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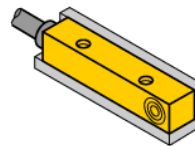
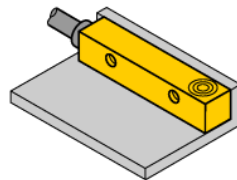
Distance D	24 mm
Distance W	12 mm
Distance S	12 mm
Distance G	24 mm

Width active area B	8 mm
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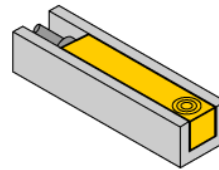
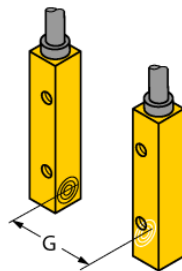


Flush mounting

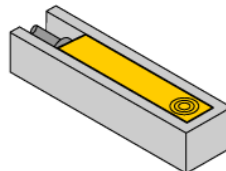
1-side mounting:
Sr = 3.5 mm



2-side mounting:
Sr = 3.0 mm



3-side mounting:
Sr = 2.5 mm



4-side mounting:
Sr = 2.0 mm

Wiring accessories

Type code	Ident-No.	Description	
PKG3M-2/TEL	6625058	Connection cable, female M8, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	