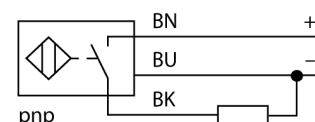


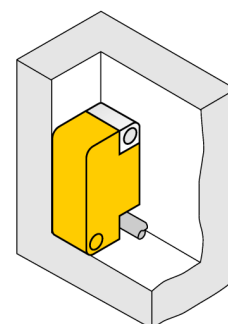
- Rectangular, height 10.2 mm
- Active face, lateral
- Cable outlet to all sides
- Plastic, PP-GF20
- Factor 1 for all metals
- Extended switching distance
- Protection class IP68
- Magnetic field immune
- Predamping protection through self-compensation
- Flush-mountable on up to 4 sides
- 3-wire DC, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



Functional principle

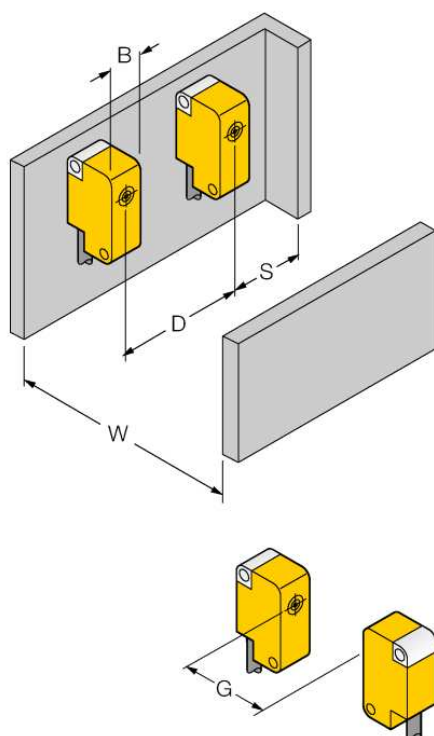
Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *Uprox[®]+* sensors have distinct advantages compared to conventional sensors. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardization.



Type code	NI5U-Q10S-AP6X
Ident no.	1609364
Rated operating distance Sn	5 mm
Mounting condition	non-flush, flush mountable
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3...15 %
Ambient temperature	-30...+85 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 150 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	3-wire, NO contact, PNP
Switching frequency	1 kHz
Design	rectangular, Q10S
Dimensions	27.8x 16x 10.2 mm
Housing material	Plastic, PP
Connection	cable
Cable quality	3 mm, grey, Lif9Y-11Y, PUR, 2 m 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	• yellow

Distance D	3 x B
Distance W	3 x Sn
Distance S	1.5 x B
Distance G	6 x Sn

Width of the active face B	10.2 mm
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Flush mounting on 4 sides

1-side mounting:
Sn = 3 mm

2-side mounting:
Sn = 3 mm

3-side mounting:
Sn = 2.6 mm

4-side mounting:
Sn = 2.3 mm

In many cases, sensors have to be mounted side by side to fulfill monitoring tasks. In order to avoid mutual interferences, Turck offers the Q10S-ZP shield (ident no. 6900520).

Accessories

Type code	Ident no.	Description	Dimension drawing
Q10S-ZP	6900520	Q10S shield	