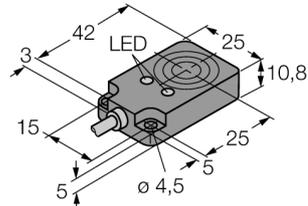


# Capacitive sensor BC8-Q10-AP6X2/S250

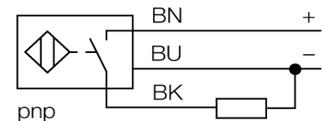
**TURCK**

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- Rectangular, height 10.8 mm
- Active face on top
- Plastic, PBT-GF30-V0
- Fixed settings
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

## Wiring diagram



## Functional principle

Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

<b>Type</b>	BC8-Q10-AP6X2/S250
Ident-No.	2621200
<b>Rated operating distance Sn</b>	8 mm, flush mounting
Rated operating distance Sn	8 mm, non-flush mounting
Assured sensing range	$\leq (0.72 \times S_n)$ mm
Hysteresis	2...20 %
Temperaturdrift	type $\leq \pm 20$ %
Repeatability	$\leq 2$ %
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	$\leq 10$ % $U_{s}$
DC rated operational current	$\leq 200$ mA
No-load current $I_0$	$\leq 15$ mA
Residual current	$\leq 0.1$ mA
Switching frequency	0.1 kHz
Rated insulation voltage	$\leq 0.5$ kV
Output function	3-wire, NO contact, PNP
Short-circuit protection	yes/ cyclic
Voltage drop at $I_0$	$\leq 1.8$ V
Wire breakage / Reverse polarity protection	yes/ complete
<b>Design</b>	rectangular, Q10
Dimensions	42 x 25 x 10.8 mm
Housing material	Plastic, PBT-GF30-V0
Material active face	Plastic, PBT-GF30-V0
Connection	cable
Cable quality	$\varnothing 5.2$ , LifYY, PVC, 2 m
Cable cross section	3 x 0.25 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	1080years acc. to SN 29500 (Ed. 99) 40 °C
<b>Operating voltage</b>	LED green
Switching state	LED yellow

**Capacitive sensor  
BC8-Q10-AP6X2/S250**

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**Accessories**

Type code	Ident-No.	Short text	Dimension drawing
MW-Q08/Q10	6945007	Mounting bracket; material VA 1.4301	