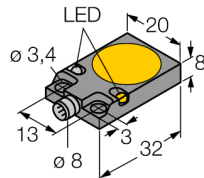


# Capacitive sensor

## BC5-Q08-AN6X2-V1131/S250

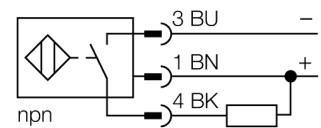
**TURCK**

Industrial  
Automation



- Rectangular, height 8 mm
- Active face on top
- Metal, GD-Zn
- Connector with snap-lock
- Fixed settings
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Ø 8 mm connector

### 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 code</b>	BC5-Q08-AN6X2-V1131/S250
Ident no.	26211
<b>Rated operating distance <math>S_n</math></b>	5 mm
Rated operating distance $S_n$	5 mm, non-flush mounting
Assured sensing range	$\leq (0.72 \times S_n)$ mm
Hysteresis	2...20 %
Temperaturdrift	type $\leq \pm 20$ %
Repeatability	$\leq 2$ % of full scale
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	$\leq 10$ % $U_{s0}$
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, NPN
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, Q08
Dimensions	32x 20x 8 mm
Housing material	Metal, GD-Zn
Material active face	Plastic, PA
Connection	male, Ø 8 mm
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C
<b>Operating voltage</b>	LED green
Switching state	● yellow

**Capacitive sensor**  
**BC5-Q08-AN6X2-V1131/S250**

**Accessories**

Type code	Ident no.	Description	Dimension drawing
MW-Q08/Q10	6945007	Mounting bracket for rectangular Q08 or Q10; material VA 1.4301	

**Wiring accessories**

Type code	Ident no.	Description	Dimension drawing
PKG3M-2/TXL	6625550	Connection cable, female M8, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>	
PKW3M-2/TXL	6625556	Connection cable, female M8, angled, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>	
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 <a href="http://www.turck.com">www.turck.com</a>	
PKW3M-2/TEL	6625064	Connection cable, female M8, angled, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>	