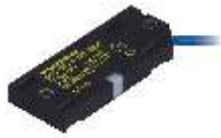


# TURCK

## Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
5.5 mm - Embeddable, Potted-In Cable 	BC 5-QF5. 5-AN6X2/S250	S2620120	No Potentiometer	5	5	3-Wire DC NPN
	BC10-QF5. 5-AN6X2	S2620121		10	10	
	BC10-QF5. 5-AN6X2/S250	S2620119	No Potentiometer	10	10	
	BC10-QF5. 5-AN6X2/S932	S2620137	Covered Pot.	10	10	
	BC 5-QF5. 5-AP6X2/S250	S2620116	No Potentiometer	5	5	3-Wire DC PNP
	BC10-QF5. 5-AP6X2	S2620117		10	10	
	BC10-QF5. 5-AP6X2/S250	S2620115	No Potentiometer	10	10	
	BC10-QF5. 5-AP6X2/S932	S2620109	Covered Pot.	10	10	
	BC 5-QF5. 5-Y1X/S250	S2030000	No Potentiometer	5	5	2-Wire DC NAMUR
	8 mm - Embeddable, Potted-In Cable 	BC 5-Q08-AN6X2	S2620100	No Potentiometer	5	5
BC 5-Q08-AP6X2		S2620000	No Potentiometer	5	5	3-Wire DC PNP
8 mm - Embeddable, picofast® Connector 	BC 5-Q08-AN6X2-V1131	S2621100	No Potentiometer	5	5	3-Wire DC NPN
	BC 5-Q08-AP6X2-V1131	S2621000	No Potentiometer	5	5	3-Wire DC PNP

"/S250" designates without potentiometer.  
 "/S932" designates Covered potentiometer.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Mat.	Face/ Front Cap	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	1	<p>Diagram 1</p>
	100	≤200	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	1	
	100	≤200	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	1	
	100	≤200	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	1	
10-30 VDC	100	≤200	-25 to +70	IP 67	PP	PP	GN	Ye	2M/PUR	2	<p>Diagram 2</p>
	100	≤200	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	2	
	100	≤200	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	2	
	100	≤200	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	2	
5-30 VDC	100	Remote	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	5	<p>Diagram 3</p>
10-30 VDC	100	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	1	<p>Diagram 4</p>
10-30 VDC	100	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	2	<p>Diagram 4</p>
10-30 VDC	100	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	3	<p>Diagram 5</p>
10-30 VDC	100	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	4	<p>Diagram 5</p>

\* Length in meters.

### 3-Wire DC

Ripple. . . . .	≤10%
Differential Travel (Hysteresis). . . . .	3-15% (5% typical)
Voltage Drop Across Conducting Sensor. . . . .	≤1.8 V
	- Si...K08/K10(AP71, AN7) . ≤0.7 V
	- Bi/Ni../S34 . . . . . ≤1.8 V
	- Bi 2-Q8SE-AP/AN.. . . . ≤2.5 V
Trigger Current for Overload Protection . . . . .	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current . . . . .	<100 µA
No-Load Current . . . . .	<10 mA ( <b>Uprox</b> ≤15 mA)
Time Delay Before Availability . . . . .	≤8 ms
Power-On Effect . . . . .	Per IEC 947-5-2
Reverse Polarity Protection . . . . .	Incorporated
Wire-Break Protection . . . . .	Incorporated
Transient Protection. . . . .	Per EN 60947-5-2
Shock . . . . .	30 g, 11 ms
Vibration . . . . .	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability . . . . .	≤2% of Rated Operating Distance
	Bi 2-Q8SE-AP/AN.. ≤5% of Rated Operating Distance

### 4-Wire DC

Ripple. . . . .	≤10%
Differential Travel (Hysteresis). . . . .	3-15% (5% typical)
Voltage Drop Across Conducting Sensor. . . . .	≤1.8 V at 200 mA
Trigger Current for Overload Protection . . . . .	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current . . . . .	<100 µA
No-Load Current . . . . .	<10 mA (Uprox ≤15 mA)
Power-On Effect . . . . .	Per IEC 947-5-2
Reverse Polarity Protection . . . . .	Incorporated
Wire-Break Protection . . . . .	Incorporated
Transient Protection. . . . .	Per EN 60947-5-2
Shock . . . . .	30 g, 11 ms
Vibration . . . . .	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability . . . . .	≤2% of Rated Operating Distance