CQ50 series

7 x 30 x 50 mm cubic capacitive sensors

features

- **DC supply voltage**
- **No adjustable sensitivity**
- **Flat polycarbonate plastic housing**



web contents

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code description

CQ 50 / A P - 3 A

series	CQ	Capacitive sensor (rectangular)
dimens.	50	50 x 30 x 7 mm
output state	A	NO output
	C	NC output
output logic	P	PNP logic
	N	NPN logic
distance	1	5 mm range
	2	6 mm range
	3	7 mm range
	4	10 mm range
connect.	A	Cable exit

available models

supply	distance (mm)	connection	NPN NC	NPN NO	PNP NO
5 Vcc	5	2 m cable	-	CQ50/AN-1A	-
10...30 Vcc	6		-	CQ50/AN-2A	-
	7		CQ50/CN-3A	-	CQ50/AP-3A
	10		CQ50/CN-4A	-	CQ50/AP-4A

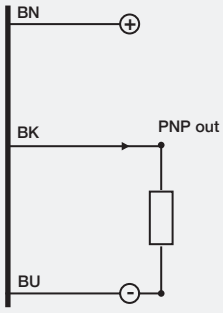
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technical specification

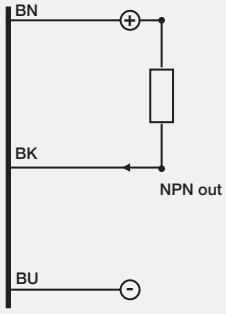
	CQ50/**-1A	CQ50/**-2A	CQ50/**-3A	CQ50/**-4A
nominal sensing distance Sn	5 mm	6 mm	7 mm	10 mm
hysteresis	≤ 20%			
repeatibility	5%			
operating voltage	5 Vcc	10 ... 30 Vcc		
max ripple content	≤ 10 %			
no-Load supply current	≤ 10 mA			
load current	≤ 50 mA			
leakage current	≤ 100 µA			
output voltage drop Ud	1..5 V max @ IL= 50 mA			
output type	NPN or PNP - NO or NC			
switching frequency	10 Hz			
power on delay	≤ 100 ms			
power supply protections	polarity reversal, impulsive overvoltage			
output protection	autoreset short circuit, overvoltage			
sensitivity adjustment	-			
storage temperature	≤ 20%			
operating temperature range	0 ...+ 60° C (without freeze)			
temperature drift	-30 ...+ 75° C			
EMC	in conformity with the EMC Directive, according to EN 60947-5-2			
protection degree	IP67 (EN 60529) NEMA 1,3,4,6,13			
housing material	noryl			
active head material	noryl			
weight	70 g			

electrical diagrams of connections

PNP



NPN



BN	brown
BU	blue
BK	black
WH	white

dimensions (mm)

CQ50/-*A**

