

Емкостные датчики CQ, CW

Технические характеристики

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Corrosion Resistance



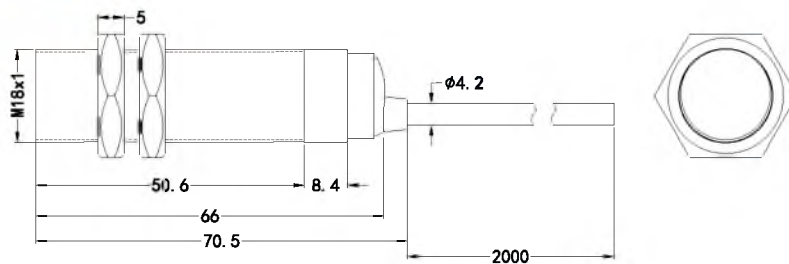
Corrosion resistance

Appearance

Mounting	Shielded
Size	M18
Sensing distance	1~10mm adjustable
Detectable objects	Metal、Water、Oil、Glass、Plastic、Paper
Operating voltage	12~24V DC(Ripple < 10%)
Voltage drop	< 1.5V
Load Current, Max	100mA
Current consumption	< 22mA
Leakage current	< 1.1mA
Response time	≤ 14ms
Isolation impedance	≥ 20MΩ (500V DC)
Hysteresis	< 10% (Sr)
Insulation withstand voltage	AC 1000V 60Hz lasts 60 Sec
Operating temperature	-20℃~+60℃
Degree of protection	IP66
Connection	φ 4.2X2m 4 core cable
Weight	≈ 78g
Model No.	CWF18-10NP (NPN NO/NC PNP PC/PO)

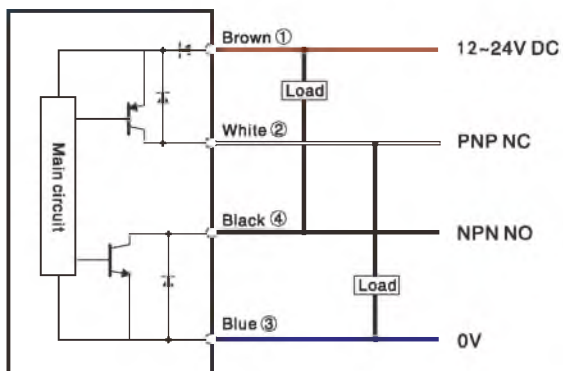
Dimensions

Unit: mm

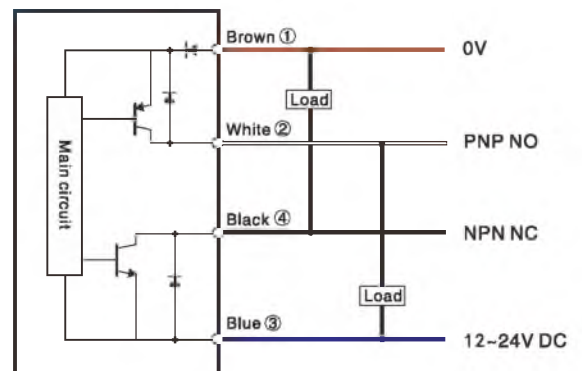


Circuit diagram

Method 1:



Method 2:





NEW!

CE



Basic Features	Working principle	Capacitive sensor	
	Housing	Flat block	
	Installation type	Flush	
	Sensing distance	4mm	8mm
	Thread size	-	
	Sensing surface material	-	
	Detected objects	Metal, liquid, powder, wood, paper, plastic and other materials	
	Indicator	Operation Status: LED	
	Sensing range adjustment	-	
Electrical data	Switching output	Normally Open or Normally Closed	
	Output mode	NPN or PNP Open Collector	
	External input	None	
	Switching frequency	200Hz	
	Repeatability	<5%sr	
	Hysteresis	<15%sr	
	Operating Voltage	10~30V DC	
	Current consumption	≤10mA	
	Residual Voltage	≤1.5V	
	Load current	≤150mA	
	Leakage current	<0.01mA	
	Insulation resistance	-	
	Dielectric strength	-	
	Vibration resistance	-	
	Circuit Protection	Short circuit protection	
Environmental conditions	Operating Temperature	-10~55°C	
	Operating Humidity	-	
	Enclosure rating	IP67	
Mechanical data	Connection type	2M 3 pin PVC cable	
	Dimension	6.0x25.0x52.5mm	
	Material	PBT	
	Weight	-	
	Accessories	-	
Model	NPN NO	CQ06-04	
	Others	:NPN Normally open	:NPN Normally closed :PNP Normally open :PNP Normally closed

Flat Type-CQ Series

Pre-wired



Basic Features	Working principle	Capacitive sensor	
	Housing	Flat block	
	Installation type	-	
	Sensing distance	5mm	10mm
	Thread size	-	
	Sensing surface material	-	
	Detected objects	Metal, liquid, powder, wood, paper, plastic and other materials	
	Indicator	Operation Status: LED	
	Sensing range adjustment	Available	
Electrical data	Switching output	Normally Open or Normally Closed	
	Output mode	NPN or PNP Open Collector	
	External input	None	
	Switching frequency	0.1kHz	
	Repeatability	5%	
	Hysteresis	-	
	Operating Voltage	24V DC $\pm$ 10%	
	Current consumption	$\leq$ 10mA	
	Residual Voltage	$\leq$ 1.5V	
	Load current	$\leq$ 50mA	
	Leakage current	<0.01mA	
	Insulation resistance	$\geq$ 50M Ω with 500V DC between power terminals and enclosure	
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure	
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions	
Environmental conditions	Circuit Protection	Reverse polarity protection/short circuit protection/pulse overvoltage protection	
	Operating Temperature	-30~75°C	
	Operating Humidity	35~85%	
	Enclosure rating	IP67	
Mechanical data	Connection type	2m/3-core Cable	
	Dimension	50.6x30.3x7.0mm	
	Material	Plastic	
	Weight	0.05kg	
	Accessories	-	
Model	NPN NO	CQ07-05	CQ07-10
	Others	[NO]:NPN Normally open [NC]:NPN Normally closed [PO]:PNP Normally open [PC]:PNP Normally closed	



Basic Features	Working principle	Capacitive sensor
	Housing	Flat block
	Installation type	Flush
	Sensing distance	8mm
	Thread size	-
	Sensing surface material	-
	Detected objects	Metal, liquid, powder, wood, paper, plastic and other materials
	Indicator	Operation Status: LED
	Sensing range adjustment	Available
Electrical data	Switching output	Normally Open or Normally Closed
	Output mode	NPN or PNP Open Collector
	External input	None
	Switching frequency	0.035kHz
	Repeatability	1%
	Hysteresis	10%
	Operating Voltage	10~30V DC $\pm$ 10%
	Current consumption	$\leq$ 10mA
	Residual Voltage	$\leq$ 1.5V
	Load current	$\leq$ 150mA
	Leakage current	$<$ 0.01mA
	Insulation resistance	$\geq$ 50M Ω with 500V DC between power terminals and enclosure
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions
Environmental conditions	Circuit Protection	Reverse Polarity Protection/Short Circuit Protection/surge protection
	Operating Temperature	-10~55°C
	Operating Humidity	35~85%RH
	Enclosure rating	IP66
Mechanical data	Connection type	2m/3-core Cable
	Dimension	48.8x20.0x7.0mm
	Material	Plastic
	Weight	0.05kg
	Accessories	-
Model	NPN NO	CQ07-08
	Others	:NPN Normally open :NPN Normally closed :PNP Normally open :PNP Normally closed

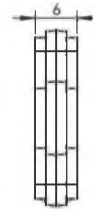
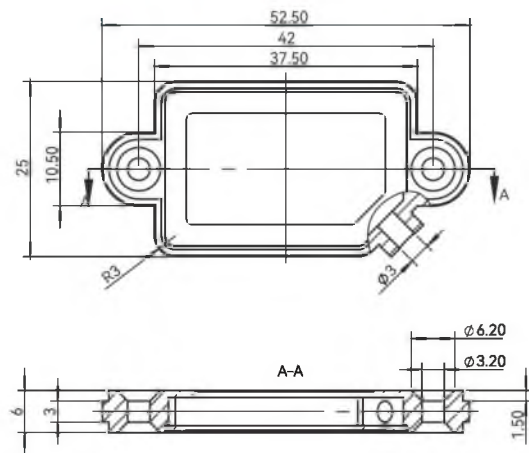
Flat Type-CQ Series

Dimensions

Unit:mm

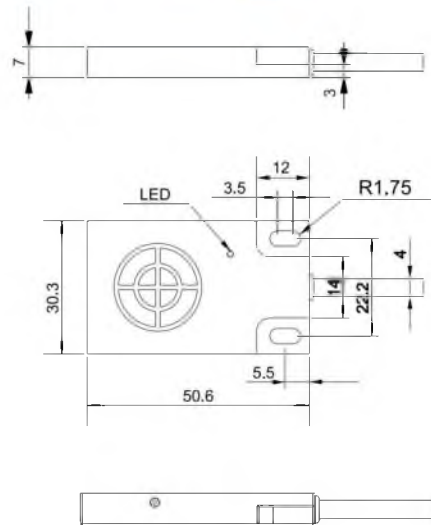
CQ06-04

CQ06-08

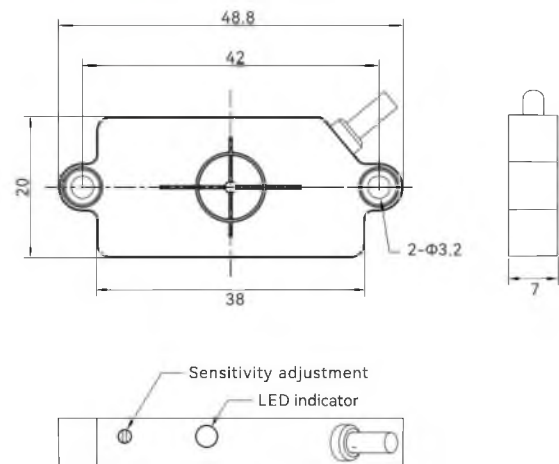


CQ07-05

CQ07-10



CQ07-08



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