



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	

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

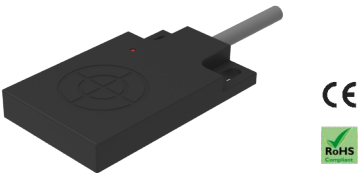
resistant type

Flat type

Level detection

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 ± 10%	
	Current consumption	≤10mA	
	Residual Voltage	≤1.5V	
	Load current	≤50mA	
	Leakage current	<0.01mA	
	Insulation resistance	≥50MΩ 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	
	Circuit Protection	Reverse polarity protection/short circuit protection/pulse overvoltage protection	
Environmental conditions	Operating Temperature	-30~75℃	
	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	:NPN Normally open	:NPN Normally closed:PNP Normally open:PNP Normally closed



Basic Features	Working principle	Capacitive sensor
	Housing	Flat block
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	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
	Circuit Protection	Reverse Polarity Protection/Short Circuit Protection/surge protection
Environmental conditions	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

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Correction

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Flat type

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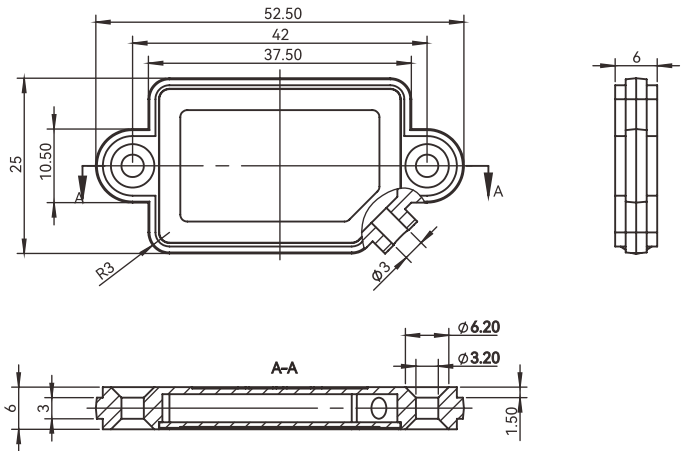
Flat Type-CQ Series

Dimensions

Unit:mm

CQ06-04

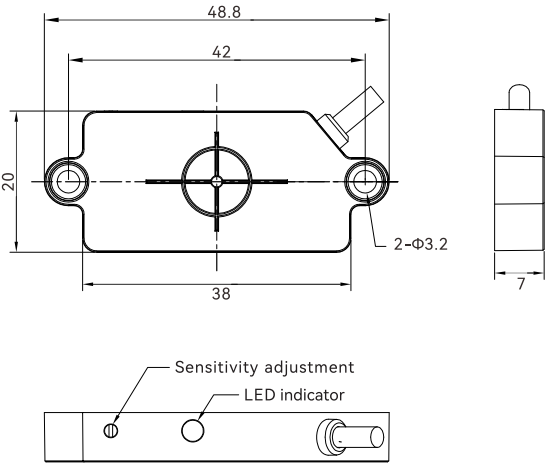
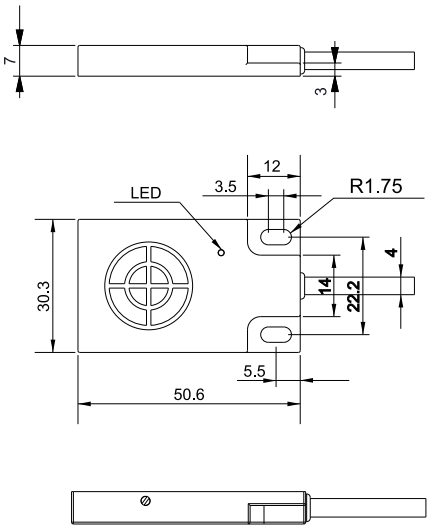
CQ06-08



CQ07-05

CQ07-10

CQ07-08



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Capacitive sensors
Cylindrical
Correction resistance type
Flat type
Level detection