

# SENSORS

# CAPACITIVE SENSOR



- Wide range of detecting targets: metal, plastic and fluid etc.
- Be able to detect different objects in container through nonmetallic container wall.
- Sensibility could be adjusted by potentiometer.



## STANDARD FUNCION



Shell code	CR12	CR18	CR30	CQ20	CQ32	
Dimensions(mm)	M12*1*52, M12*1*65	M18*1*70, M18*1*83.5	M30*1.5*62 M30*1.5*79	Φ20*80	Φ32*80	
Mounting	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	
Sensing distance	2mm, 4mm	5mm, 8mm	10mm, 15mm	10mm, 15mm	15mm, 20mm	
Output	DC 3 Wires	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	
	DC 4 Wires	/	NPN NO+NC PNP NO+NC	NPN NO+NC PNP NO+NC	NPN NO+NC PNP NO+NC	
	DC 2 Wires	/	/	/	/	
	AC 2 Wires	/	NO NC	NO NC	NO NC	NO NC
	AC/DC 2 Wires	/	NO NC	NO NC	/	NO NC
Supply voltage	10...30 VDC	10...30 VDC 20...250 VAC	10...30 VDC 20...250 VAC 20...250 VAC/DC	10...30 VDC 20...250 VAC	10...30 VDC 20...250 VAC 20...250 VAC/DC	
Frequency	50Hz	50Hz, 15Hz	50Hz, 15Hz	50Hz, 15Hz	50Hz, 15Hz	
Ambient temperature	-25°C...70°C	-25°C...70°C	-25°C...70°C	-25°C...70°C	-25°C...70°C	
Protection degree	IP67	IP67	IP67	IP67	IP67	
Housing material	Nickel-copper Alloy, PA66	Nickel-copper Alloy, PBT	Nickel-copper Alloy, PBT	Nickel-copper Alloy, PBT	Nickel-copper Alloy, PBT	
Connection	Cable, M12 Connector	Cable, M12 Connector	Cable, M12 Connector	Cable	Cable	
Certification	CE	CE U <sub>L</sub>	CE U <sub>L</sub>	CE U <sub>L</sub>	CE U <sub>L</sub>	



## STANDARD FUNCION



Shell code	CQ34S	CE05	CE05X	CE05-S	CE07	
Dimensions(mm)	Φ34*80	50*20*5	50*20*5	50*20*5	30*7*50	
Mounting	● Flush, ① Non-flush	① Non-flush	① Non-flush	① Non-flush	● Flush, ① Non-flush	
Sensing distance	15mm, 25mm	3.5mm, 5mm, 8mm	3.5mm, 5mm, 8mm	6mm(可调)	5mm, 8mm	
Output	DC 3 Wires	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC
	DC 4 Wires	NPN NO+NC PNP NO+NC	/	/	/	/
	DC 2 Wires	/	/	/	/	/
	AC 2 Wires	NO NC	/	/	/	/
	AC/DC 2 Wires	NO NC	/	/	/	/
Supply voltage	10...30 VDC 20...250 VAC 20...250 VAC/DC	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC	
Frequency	50Hz, 15Hz	30Hz	30Hz	30Hz	60Hz	
Ambient temperature	-25°C...70°C	-25°C...70°C	-25°C...70°C	-25°C...70°C	-10°C...70°C	
Protection degree	IP67	IP67	IP67	IP67	IP67	
Housing material	PBT	PBT	PBT	PBT	PBT	
Connection	Cable	Cable	Cable	Cable	Cable	
Certification	CE	CE	CE	CE	CE	

## STANDARD FUNCION

## TIME DELAY FUNCTION



Shell code	CE34	CE35	CE39	CR30S	CQ32S
Dimensions(mm)	50*7*20	35*15*58	39*59*15	M30*1.5*62	Φ32*80
Mounting	⦿ Non-flush	● Flush, ⦿ Non-flush	⦿ Non-flush	● Flush, ⦿ Non-flush	● Flush, ⦿ Non-flush
Sensing distance	10mm	10mm, 15mm	12mm	10mm, 15mm	15mm, 20mm
Output	DC 3 Wires	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	/	/
	DC 4 Wires	/	NPN NO+NC PNP NO+NC	/	/
	DC 2 Wires	/	/	/	/
	AC 2 Wires	/	/	/	NO NC
	AC/DC 2 Wires	/	/	/	/
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	20...250 VAC	20...250 VAC
Frequency	30Hz	50Hz	50Hz	10Hz	1Hz
Ambient temperature	-10°C...70°C	-10°C...70°C	-10°C...70°C	-25°C...70°C	-25°C...70°C
Protection degree	IP67	IP67	IP67	IP67	IP67
Housing material	PBT	PBT	PBT	PBT	PBT
Connection	Cable	Cable	Cable	Cable	Cable
Certification	CE	CE	CE	CE	CE

## TIME DELAY FUNCTION

## EXTENDED SENSING DISTANCE



Shell code	CQ34S	CR12D	CR12X	CR18X	CR30X	
Dimensions(mm)	Φ34*80	M12*1*63,M12*1*65.5 M12*1*75,M12*1*80.5	M12*1*63,M12*1*68 M12*1*75,M12*1*80	M18*1*70,M18*1*85 M18*1*80,M18*1*95	M30*1.5*64,M30*1.5*81 M30*1.5*79,M30*1.5*96	
Mounting	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	
Sensing distance	15mm, 25mm	4mm,8mm	4mm,8mm	8mm, 12mm	15mm, 25mm	
Output	DC 3 Wires	/	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC
	DC 4 Wires	/	/	/	NPN NO+NC PNP NO+NC	NPN NO+NC PNP NO+NC
	DC 2 Wires	/	/	/	/	/
	AC 2 Wires	/	/	/	/	/
	AC 5 Wires	Relay output NO+NC	/	/	/	/
Supply voltage	20...250 VAC	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC	
Frequency	1Hz	40Hz	25Hz	25Hz	40Hz	
Ambient temperature	-25°C...70°C	-25°C...70°C	-25°C...70°C	-25°C...70°C	-25°C...70°C	
Protection degree	IP67	IP67	IP67	IP67	IP67	
Housing material	PBT	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	
Connection	Cable	Cable, M12 Connector	Cable, M12 Connector	Cable, M12 Connector	Cable, M12 Connector	
Certification	CE	CE	CE	CE	CE	

## EXTENDED SENSING DISTANCE

## CORROSION RESISTANCE TEST

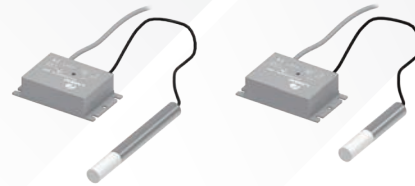


Shell code	CR12XS	CR18XS	CR30XS	CR18T	
Dimensions(mm)	M12*1*62,M12*1*67 M12*1*74,M12*1*79	M18*1*70,M18*1*85 M18*1*80,M18*1*95	M30*1.5*64,M30*1.5*81 M30*1.5*79,M30*1.5*96	M18*1*72	
Mounting	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	● Flush, ○ Non-flush	
Sensing distance	4mm,8mm	8mm, 12mm	15mm, 25mm	5mm, 8mm, 12mm	
Output	DC 3 Wires	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC
	DC 4 Wires	/	NPN NO+NC PNP NO+NC	NPN NO+NC PNP NO+NC	/
	DC 2 Wires	/	/	/	/
	AC 2 Wires	/	/	/	/
	AC 5 Wires	/	/	/	/
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC	
Frequency	40Hz	25Hz	20Hz	40Hz	
Ambient temperature	-25°C...70°C	-25°C...70°C	-25°C...70°C	-25°C...70°C	
Protection degree	IP68	IP68	IP68	IP67	
Housing material	PBT	PBT	PBT	PTFE	
Connection	Cable, M12 Connector	Cable, M12 Connector	Cable, M12 Connector	Cable	
Certification	CE	CE	CE	CE	

## PIPE LIQUID LEVEL DETECTING



## HIGH TEMPERATURE RESISTANT MATERIAL LEVEL DETECTING



Shell code	CE10	CE15	CE53	CE53	
Dimensions(mm)	43*24*20	34*33*20	95.5*55*22	95.5*55*22	
Mounting	● Non-flush	● Non-flush	● Non-flush	● Non-flush	
Sensing distance	13mm	26mm	8mm	8mm	
Output	DC 3 Wires	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC	NPN NO; NPN NC PNP NO; PNP NC
	DC 4 Wires	/	/	/	/
	DC 2 Wires	/	/	/	/
	AC 2 Wires	/	/	/	/
	AC/DC 2 Wires	/	/	/	/
Supply voltage	10...30 VDC	10...30 VDC	18...36 VDC	18...36 VDC	
Frequency	60Hz	60Hz	0.3Hz	0.3Hz	
Ambient temperature	-10°C...55°C	-10°C...55°C	Sensor : 250°C Control box : 0°C...60°C	Sensor : 250°C Control box : 0°C...60°C	
Protection degree	IP67	IP67	IP54	IP54	
Housing material	PBT	PBT	PA6	PA6	
Connection	Cable	Cable	Cable	Cable	
Certification	CE	CE	CE	CE	