



LANBAO SENSOR

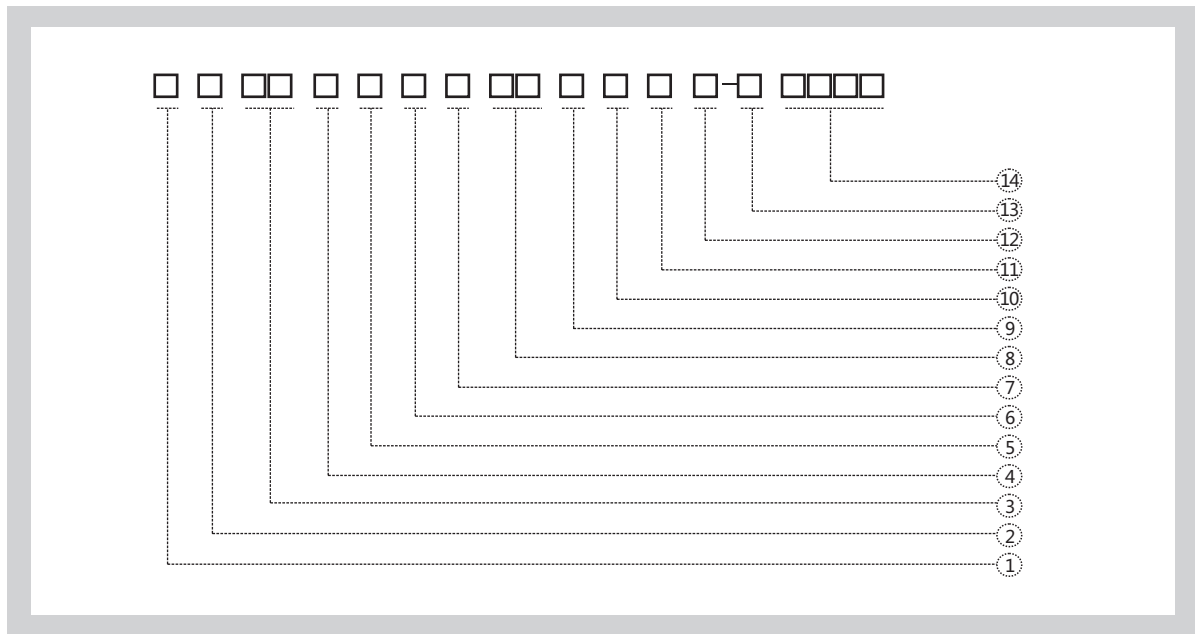
complete solution for the sensors

Established in 1998, Shanghai Lanbao Sensing Technology Co., Ltd. is a leading industrial automation products supplier in China. Our main businesses are industrial sensors R&D, production, sales and application, providing customers with standard and individual products and systems. Lanbao industrial sensors cover over 30 series, 3000 specifications, main products are inductive sensors, photoelectric sensors, capacitive sensors and pressure sensors. Lanbao has been making continuous breakthrough in new technology and new material application, which laid the foundation of its leading position in sensing technology.

Lanbao is an ISO9001:2008 quality management system and EU RoHS environmental directives implemented enterprise. Our series products are with CE, UL and CCC certification. The strict tests in function, quality, reliability and production feasibility at the design stage of each product and the strict quality management in production ensure excellent quality products.

Focus on innovation, quality, service and global market, Lanbao insists on creating maximal value for customers.

Naming rules



1. Type Code

C:Capacitive

2. Shape Code

R:Threaded cylindrical
Q:Smooth cylindrical
E:Rectangular

3. Size Code

Number:Housing diameter
e.g: 08:M8

4. Housing Material

N/A:Copper
S:Plastic
G:Stainless steel

5. Housing Length

A:Short
B:Standard
C:Long

6. Mounting

N:Non-flush(nf)
F:Flush(f)

7. Sensing Distance

02:2mm
04:4mm
10:10mm

8. Supply Voltage

A:20...250VAC
D:10...30VDC
E:10...60VDC
M:18...36VDC
S:20...250VAC/DC

9. Output Way

B:AC/DC 2 wires
T:AC 2 wires
P:PNP
N:NPN

E:NPN/PNP

F:NPN+PNP

K:Relay

10. Output Status

A:NO/NC reversible
B:NO/NC optional
Cable optional;Potentiometer optional
O:NO
C:NC
R:NO+NC
Note:Relay output is optional

11. By Sensor Function

N/A:Standard function
Y:Extended sensing distance
T1:On-delay function
T160:60s
T1600:600s
T2:Off-delay function
T260:60s
T2600:600s

12. Cable Length

N/A:2m
3M:3m

13. Connection

N/A:2M cable
E1:M8 connector (3 pins)
E2:M12 connector (4 pins)
E3:M8 connector (4 pins)
E4:M12 trapezoid connector (4 pins)
E5:M12 connector (5 pins)
D:Terminal

14. Special Requirement

In 4 Digits

Wiring diagram

DC 3Wires		NPN NO	NPN NC	PNP NO	PNP NC
Lead cable					
M12 Connector					
DC 4Wires		NPN NO+NC	PNP NO+NC		
Lead cable					
M12 Connector					
AC 2Wires		SCR NO	SCR NC		
Lead cable					
M12 Connector					
AC/DC 2Wires		NO	NC	NO/NC	
Lead cable					
M12 Connector					
AC/DC 5Wires		Lead cable	Terminal connect		
Relay					
Remarks					
Connector	M8 Connector		M12 Connector		

Capacitive sensors

Extended sensing distance

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Model	Output	Supply Voltage	Mounting	Sensing Distance	Dimension	Housing Material	Connection
CR12S	DC 3Wires	DC10-30V	f/nf	4mm,8mm	M12*1*52	PBT	Cable
CR12S	DC 3Wires	DC10-30V	f/nf	4mm,8mm	M12*1*65	PBT	M12 Connector
CR18S	DC 3/4Wires	DC10-30V	f/nf	8mm,12mm	M18*1*70	PBT	Cable
CR18S	DC 3/4Wires	DC10-30V	f/nf	8mm,12mm	M18*1*83.5	PBT	M12 Connector
CR30S	DC 3/4Wires	DC10-30V	f/nf	15mm,22mm	M30*1.5*62	PBT	Cable
CR30S	DC 3/4Wires	DC10-30V	f/nf	15mm,22mm	M30*1.5*79	PBT	M12 Connector

Delay function type

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Model	Output	Supply Voltage	Mounting	Sensing Distance	Dimension	Housing Material	Connection
CR30S	AC 2Wires	AC20-250V	nf	22mm	M30*1.5*62	PBT	Cable
CQ32S	AC 5Wires	AC20-250V	f	15mm	Φ32*80	PBT	Cable

Pipe liquid level detecting

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Model	Output	Supply Voltage	Mounting	Sensing Distance	Dimension	Housing Material	Connection
CE10	DC 3 Wires	DC10-30V	nf		43*24*20	PBT	Cable
CE15	DC 3 Wires	DC10-30V	nf		34*33*20	PBT	Cable

High temperature resistant material level detecting

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Model	Output	Supply Voltage	Mounting	Sensing Distance	Dimension	Housing Material	Connection
CE53	DC 3 Wires	DC18-36V	nf		55*22*96	PA66	Cable

Item Code	CR30S		CQ32S	
Mounting	● Non-flush	● Non-flush	● Flush	● Flush
Sensing distance	22mm(Ajustable)	22mm(Ajustable)	15mm(Ajustable)	15mm(Ajustable)



Output	AC 2Wires NO	CR30SCN15ATO-T160	CR30SCN15ATO-T260		
	AC 2Wires NC	CR30SCN15ATC-T160	CR30SCN15ATC-T260		
	Relay output			CQ32SCF15AK-T1600	CQ32SCF15AK-T2600

Technical Parameter					
Supply voltage	20...250VAC	20...250VAC	20...250 VAC	20...250 VAC	
Switch point drift	< ±20% Sr	< ±20% Sr	< ±20% Sr	< ±20% Sr	
Load current	300	300	≤2A	≤2A	
Voltage drop	1s-60s	1s-60s	1s-10min	1s-10min	
Consumption current	<25mA	<25mA	<25mA	<25mA	
Hysteresis	3...20%	3...20%	3...20%	3...20%	
Repeat accuracy	<3%	<3%	<3%	<3%	
Frequency	10Hz	10Hz	1Hz	1Hz	
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED	
Polarity protection	
Impulse voltage withstand	2000V/AC 50/60Hz 60s	2000V/AC 50/60Hz 60s	2000V/AC 50/60Hz 60s	2000V/AC 50/60Hz 60s	
Short-circuit protection	
Ambient temperature	-25...+70°C	-25...+70°C	-25...+70°C	-25...+70°C	
Ambient moisture	35...95%	35...95%	35...95%	35...95%	
Protection degree	IP67	IP67	IP67	IP67	
Housing material	PBT	PBT	PBT	PBT	
Connection	2m PVC Cable	2m PVC Cable	2m PVC Cable	2m PVC Cable	
Certification	CE	CE	CE	CE	

