



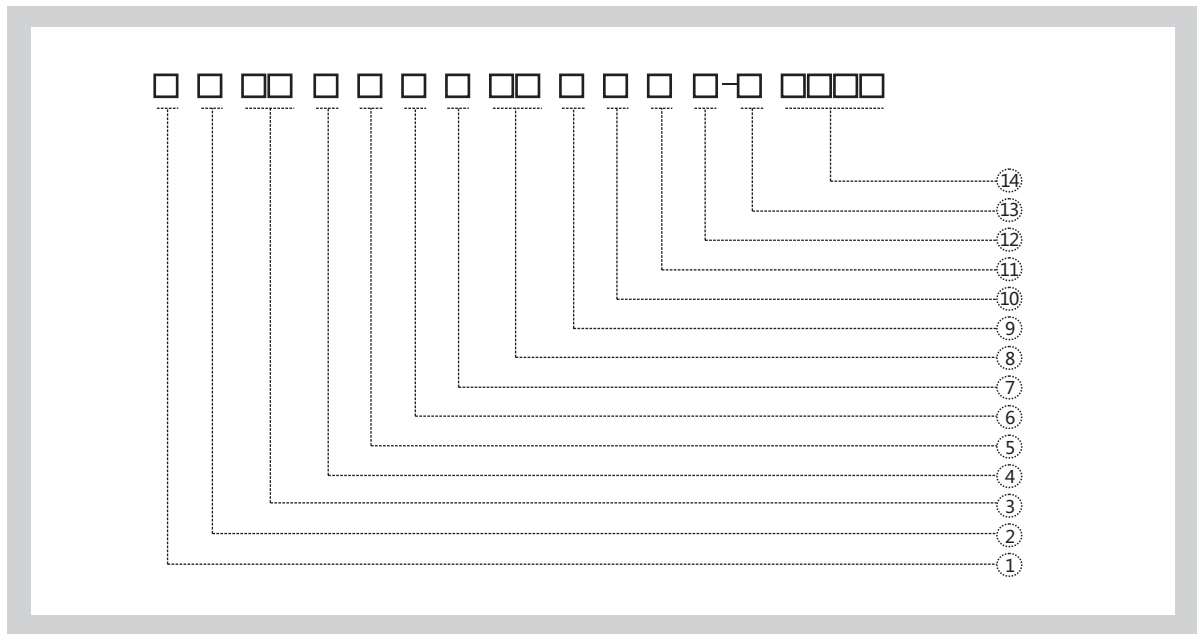
LANBAO SENSOR complete solution for the sensors

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	CE10	CE15	CE53S
Mounting	● Non-flush	● Non-flush	● Non-flush



Output	NPN NO	CE10SN13DNO	CE15SN26DNO	CE53SN08MNO
	NPN NC	CE10SN13DNC	CE15SN26DNC	CE53SN08MNC
Output	PNP NO	CE10SN13DPO	CE15SN26DPO	CE53SN08MPO
	PNP NC	CE10SN13DPC	CE15SN26DPC	CE53SN08MPC

Technical Parameter				
Supply voltage		10...30 VDC	10...30 VDC	18...36 VDC
Load current		<200mA	<200mA	<250mA
Voltage drop		<2.5V	<2.5V	<2.5V
Consumption current		<15mA	<15mA	<100mA
Hysteresis		3...20%	3...20%	3...20%
Repeat accuracy		<3%	<3%	<3%
Frequency		60Hz	60Hz	60Hz
Output indicator		Yellow LED	Yellow LED	Red LED
Channels	Material	Nonmetal	Nonmetal	...
	OD	Φ8...Φ11	Φ12...Φ26	...
	Thickness	<1mm	<1mm	...
Short-circuit protection		yes	yes	yes
Surge protection		yes	yes	yes
Ambient temperature		-10...+55°C	-10...+55°C	0...+60°C
Ambient moisture		35...95%	35...95%	35...95%
Protection degree		IP67	IP67	IP54
Housing material		PBT	PBT	PA66/Teflon/Stainless steel
Connection		2m PVC Cable	2m PVC Cable	2m PVC Cable
Certification		CE	CE	CE

