

# Proximity Inductive 12BX-8

## Model:LJ12A3 -8-Z/BX



### **Description:**

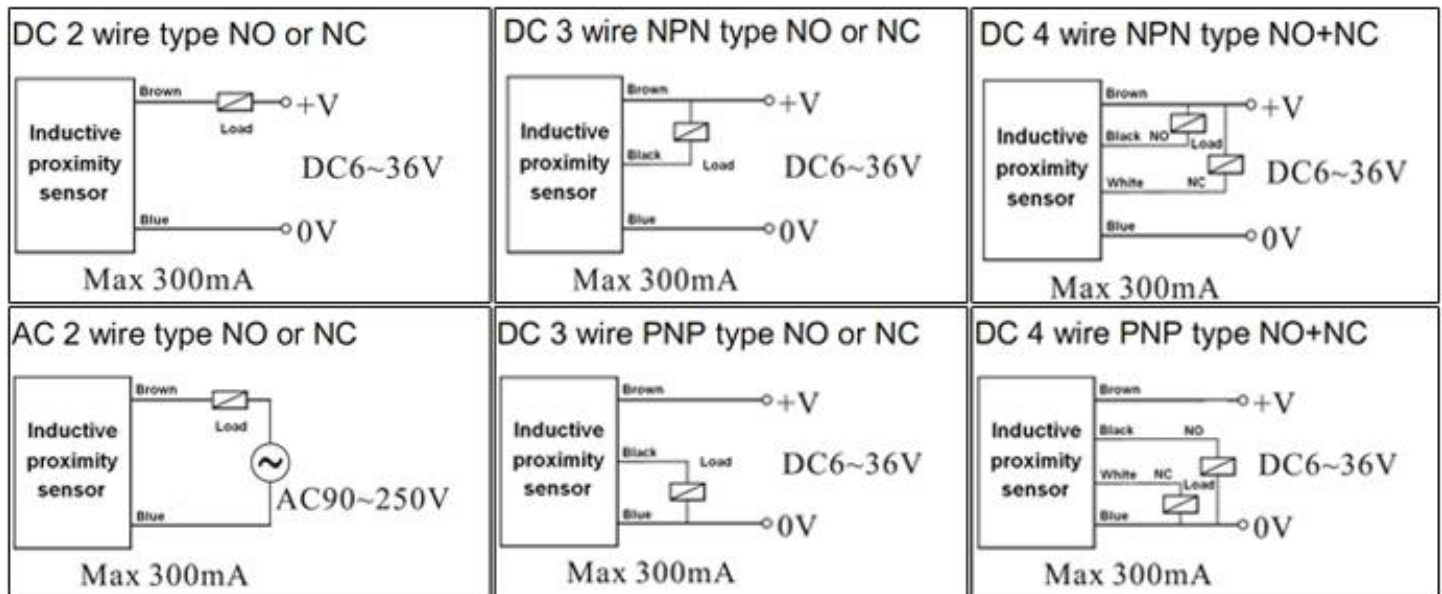
- Metal shell, DC type, 8mm detecting distance, 3 wire system.
- Power supply inverted connecting protection, short circuit protection, non-contact detecting device.
- When proximity switch is close to some target object, it will send out control signal.
- Used widely in the machine tool industry, frequency counters and other automatic control system.

### **Specifications:**

Detection distance			8mm	
<b>Dimensional drawing</b>				
<b>Model</b>	<b>DC Type</b>	<b>NPN</b>	<b>NO</b>	<b>LJ12A3-8-Z/BX</b>
			<b>NC</b>	<b>LJ12A3-8-Z/AX</b>
			<b>NO+NC</b>	<b>LJ12A3-8-Z/CX</b>
		<b>PNP</b>	<b>NO</b>	<b>LJ12A3-8-Z/BY</b>

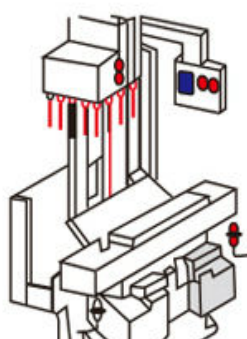
		NC	LJ12A3-8-Z/AY
		NO+NC	LJ12A3-8-Z/CY
	Two-wire	NO	LJ12A3-8-Z/EX
		NC	LJ12A3-8-Z/DX
Control output	DC		200mA
	SCR/Relay		300mA
Output voltage drop DC/AC			DC<2V DC(Two wire system) <3.9V AC<10V
Consumption current			DC<15mA AC<10mA
Standard detected object			18×18×1mm
Repeated precision			0.01
DC/AC Response frequency			400Hz/25Hz
Insulation resistance			≥50M
Shell material			Metal

**Installation:**



**Applications legend:**

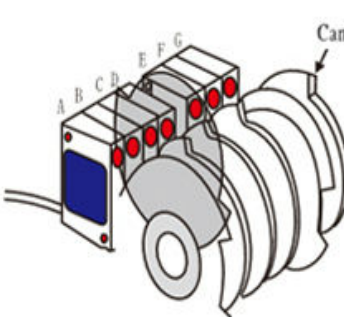
1、Various position detection in machining centre



Cylindrical type proximity switch

The diagram shows a cylindrical proximity switch mounted on a vertical shaft of a machining center. The switch is positioned to detect the presence of a metal part as it moves through the machine's structure.

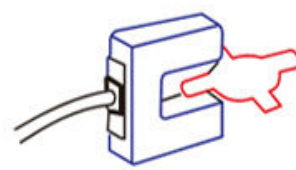
2、Action sequence cam detection



Flat type proximity switch

The diagram illustrates a flat type proximity switch with a cam mechanism. The cam is labeled 'Cam' and has several positions marked A through G. The switch is designed to detect the cam's position to control an action sequence.

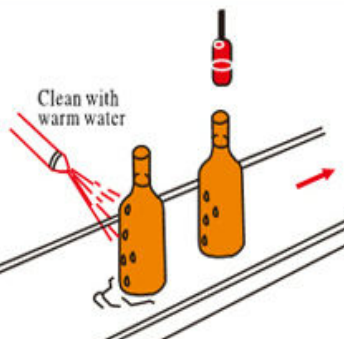
3、Pulser



Slot type proximity switch

The diagram shows a slot type proximity switch with a red irregular shape passing through its slot. This setup is used to generate a pulse signal when the object passes through the slot.

4、Bottle cap detection



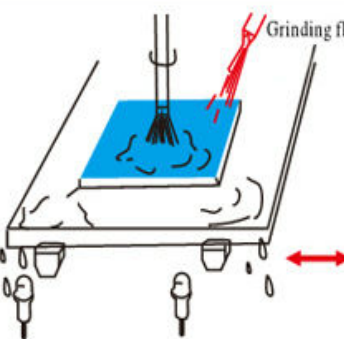
Water-proof type proximity switch

Clean with warm water

Multi-temperature environment

The diagram depicts a water-proof proximity switch used for detecting bottle caps. A spray of water labeled 'Clean with warm water' is directed at the caps. The environment is noted as a 'Multi-temperature environment'.

5、Grinder stop detection



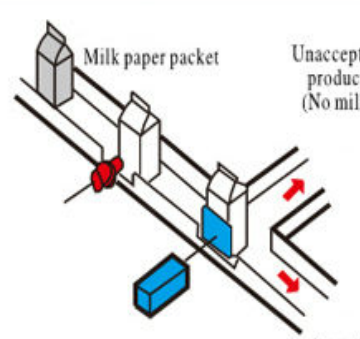
Water-proof type proximity switch

Stop

Grinding fluid

The diagram shows a grinder stop detection system. A grinding wheel is shown with 'Grinding fluid' being applied. A proximity switch is used to detect the stop position of the grinding wheel.

6、Detect whether there is milk inside the paper packet



Capacitive type proximity switch

Milk paper packet

Unaccepted product (No milk)

Accepted product

Propeller

The diagram illustrates a capacitive type proximity switch used to detect the presence of milk inside a paper packet. A propeller is used to stir the contents, and the switch detects the change in capacitance. The system distinguishes between 'Unaccepted product (No milk)' and 'Accepted product'.