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Inductive Proximity Sensor LJ12A3

Network

Advantages:

- 1) Compact volume, Diversified exterior
- 2) High precision of repeated location
- 3) Good performance of anti-interference
- 4) High on-off frequency, Wide voltage range
- 5) Dust proof, vibration proof, water proof and oil proof
- 6) With short-circuit protection and inverted connecting protection

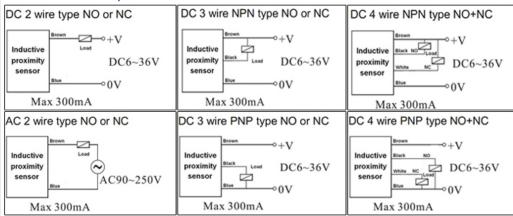




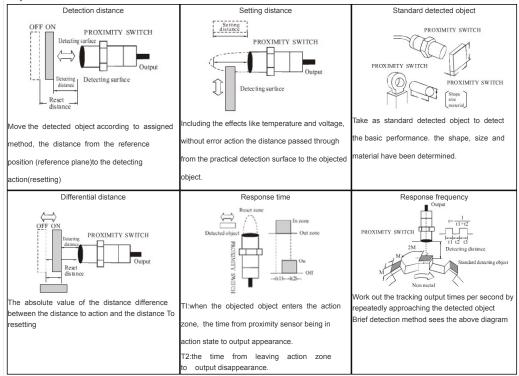
		Dimension		17 56 LBD
	Detection distance			2mm
ĺ			NO	LJ12A3-2-Z/BX / LM12-3002NA
	DC	NPN	NC	LJ12A3-2-Z/AX / LM12-3002NB
	6		NO+NC	LJ12A3-2-Z/CX / LM12-3002NC
	~		NO	LJ12A3-2-Z/BY / LM12-3002PA
	36	PNP	NC	LJ12A3-2-Z/AY / LM12-3002PB
lush	V		NO+NC	LJ12A3-2-Z/CY / LM12-3002PC
		two wire	NO	LJ12A3-2-Z/EX / LM12-3002LA
		system	NC	LJ12A3-2-Z/DX / LM12-3002LB
	AC		NO	LJ12A3-2-J/EZ / LM12-2002A
	90	SRC Control	NC	LJ12A3-2-J/DZ / LM12-2002B
	~250	label silicon	NO+NC	
	V	Relay output		
Non-		Detection distance		4mm
flush			NO	LJ12A3-4-Z/BX / LM12-3004NA
		NPN	NC	LJ12A3-4-Z/AX / LM12-3004NB
	DC		NO+NC	LJ12A3-4-Z/CX / LM12-3004NC
	6		NO	LJ12A3-4-Z/BY / LM12-3004PA
	~	PNP	NC	LJ12A3-4-Z/AY / LM12-3004PB
	36		NO+NC	LJ12A3-4-Z/CY / LM12-3004PC
	V	two wire	NO	LJ12A3-4-Z/EX / LM12-3004LA
		system	NC	LJ12A3-4-Z/DX / LM12-3004LB
	AC	SRC Control	NO	LJ12A3-4-J/EZ / LM12-2004A
- 1		label silicon	NC	LJ12A3-4-J/DZ / LM12-2004B

	~250		NO+NC		
	V	Relay output			
Comto	ol output	DC		200mA	
Conti	oi output	SCR/	Relay	300mA	
Output voltage drop DC/AC			C/AC	DC<2V DC(Two wire system) <3.9V AC<10V	
Consumption current			ent	DC<15mA AC<10mA	
Standard detected object			bject	15×15×1(A3 iron)	
	Repeated precision			0.01	
DC/AC Response frequency			uency	400Hz/25Hz	
Working environment temperature			nperature	−25°C~75°C	
Insulation resistance			се	≥50MΩ	
Shell material				Metal	
Protection grade)	IEC standard IP67	
Altemative model at home and abroad			and abroad	E2E-X5M _□	

Series connection and parallel connection:



Explanation of technical terms:



Main features:

Take high frequency oscillation type proximity sensor(front detector)as representative example to briefly explain general features of proximity switch.

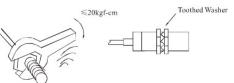
Item	ency oscillation type proximity sensor(front detector)as representation	Features	
	·		♦ About detected object
The size of	If the detected object is square metal sheet	When the detected object	
detected	with constant thickness (t=1mm), detect at	is bigger than standard	
object and	detection distance X when change its side	detection distance is	When the material of detected
detection	length dmm.	constant. According to	object is non magnetic metal,
distance	X (mm)	different Machine type,	the distance of action should
	11	sometimes the features	descend. But when the foil
	10 9 Steel	will that mentioned on	material is approximately
	8	the left. To through	thicker than a.01mm, the
	Stainless steel	type, the detection	detection distance will be the
	5 (SUS304) Corpper	object is like cylinder	same as that of magnetic object
	4 3	metal bar	If the film plating is extremely
	3 / AL		thin or non-conductive,
	 		detection cannot be conducted.
	0 10 20 30 40 50 60		The effect of cladding material,
			take note of the changing of
			detection distance.
			♦ About ambient weather
			In order to maintain reliable
	Detect at detection distance Vmm/front detector)		action and long service life, please avoid
The	Detect at detection distance Xmm(front detector)when change the thickness of the assigned standard detected	For more than 1mm thick	the(outdoor)occasion beyond the
thickness	object 1mm.		stipulated ambient temperature.
of detected	X(mm) 10 Detecting object: AI	on the main, the	Do not drench it with Water or water-soluble cutting lubricant
object and	Detecting distance: 5mm	detection distance will	when it is used with cover,
detection	7	not change.	although the proximity sensor is
distance	Reset(OFF)		waterproof. Do not used in the occasions with chemical agents,
	4 3		especially strong base acid,
	2 React(ON)		nitric acid, hot strong sulfuric
	10		acid and so on.
	0.01 0.1 1 10		A1
			◆ About maintenance and overhaul
			In order to keep the proximity
			sensor to work stably for long
			time, the following regular examinations should be performed
The effects	Because the detection to standard detected	The effects resulted from detection distance and cladding	just like general control.
resulted	object will be effected by its shape,	material of the metal excluded	1. Check the installation
from the	size, material, and various cladding	iron will be different according to different machine type On the	position of detected object and
Thickness	material, confirm through detection	main, the machine type which	proximity sensor if any deviation, loosening or
of detected	distance Xmm measurement.	detects all the metals will not be effected by cladding material.	deformation exists.
object and	(62)		2. Check the attached wires
cladding	Steel 100%		and connecting parts if any loosening bad contact or wire
material	Stainless steel About60%		breaking off exists
	Yellow corpper About40%		3. Check if there is any
	AL About30%		metallic powder accumulation or
	Corpper About28%		not 4. Check if the temperature
	(20)		condition and surrounding
			environment condition are normal
			or not
			5. Check if the detection distance is normal or not
			O

Correct use, installation and cautions:

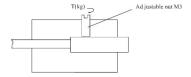
◆Mounting screw switch

Mounting non screw type pillar switch

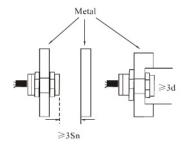
tighten with over-torque when not mounting the switch. Adopt toothed washer when tightening

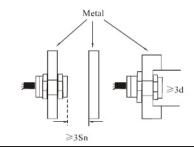


When adopt adjusting tightening torque should be within 2-4kgf-cm



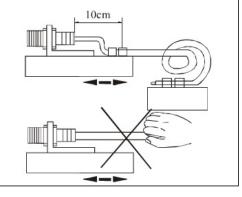
- Protection against the interference non detected object
- ◆ When mounting the proximity switch on the metal part, do refer to the following diagram. Remain a certain space in advance according to the shown diagram prevent the switch from error action
- ◆ Protection against mutual interference between switches
- ◆ Mount according to the size which than that in the following diagram switch from resulted from mutual interference if mount the switches contra-positively or in parallel





- Adjustable switch action distance(sensitivity)
- The action distance(sensitivity)of proximity switch adjusted by the means of trimming potentiometer. Increase action distance and sensitivity when turn clockwise. in max. action distance.
- the critical state of
 - Operate distance (sensitivity) LED Potentiometer Power wire 1.5m

- ♦ When mount switch, fix the lead-wire a distance about 10cm from the switch with wire clip so as to prevent the switch lead-wire from damage from outer force



- Cautions
- ◆DC switch should adopt insulation transformer and ensure stable voltage mains corrugation.
- ◆IF any electric power line or dynamic line passes through the surrounding of switch lead-wire, in order to prevent the switch

from damage or error action, cover the metal bushing on the switch lead-wire and ground it to the earth.

- ◆Set the switch use distance within the rated distance to avoid the effects from temperature and voltage
- ◆Wiring while power-on is strictly prohibited. Connecting the wires strictly according to the wiring diagram and output

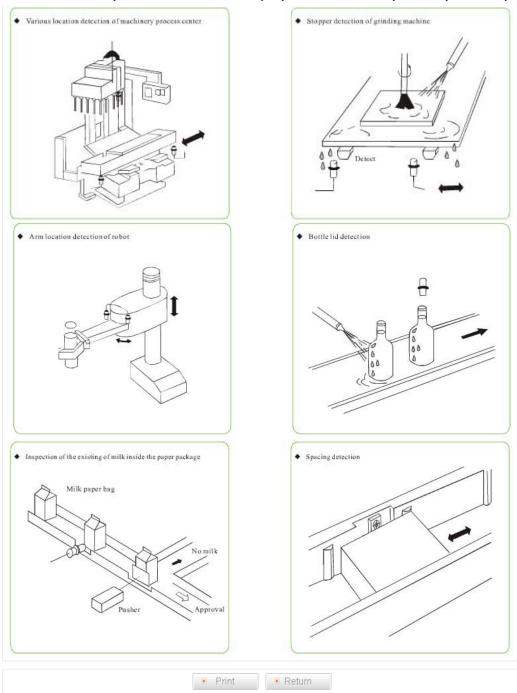
return elementary diagram.

♦ If there are any special requirements to the switch like water proof, oil proof, acid proof, base proof, high temperature proof

or with any other specifications, the users are required to give clear indication when placing an order. We can produce accord

-ing to the requirements of the use.

Application illustration of proximity switch:



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Photoelectric S \cdots

Photoelectric Sensor \cdots Photoelectric Sensor \cdots Photoelectric Sensor \cdots Photoelectric Sensor \cdots Photoelectric Sensor \cdots

Light Curtain S \cdots

Light curtain sensor ... Light curtain control... GB Mounting brackets

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