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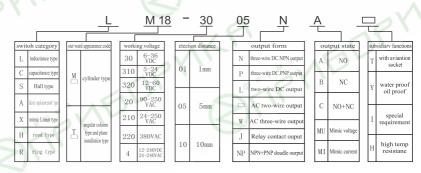
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INSTRUCTION MANUAL PROXIMITY SWITCH

- About proximity switch
- Honorable consumers, thanks for selecting and using the sensor of our company. When using the products of our company, please refer to the instruction first in order to avoid unnecessary losses caused by misoperation. Because
- the product is improved unceasingly, the sensor of you ger may be different from the drawing in the instruction. Uses: It is suitable for controlling the limit machine tool. detecting, counting, yelocity measurement, liquid level, signal and automatic line for locating sending signal, etc, It is also widely used in machinery, mine metallurgy, plastics, textile, chemic lindustry, light industry, tobacco, electric power, railway and war industry and so on departments

Model explanation of proximity swith.



For example:LM18-3005NA

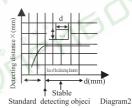
The above indicates inductance type proximity switch. M18 indicates cylinder type whose diameter is 18mm.30indicates DC6-36V 05indicates that the detecting distance is 5mm and N indicates NPN negative logic.Ais NO output.

- Setting operating distance(Sn)
- Please set the operating distance of the switch within 80% of standard operating distance to protect the switch from being affected by temperature and voltage.
- When detecting other metals, the switch has different operating distances(Diagram1).
- When the switch is used for measuring operating frequency or used in other high-speed places, please set the operating distance of the switch within 1/2of standard operating distance. At this position, the switch can reach max operating frequency.
- please refer to the instruction manual of capacitive proximity switch for setting its operating distance.

Ratio of inducing different materials

Stainless steel Brass Ahminum Copper 20 0.5 0.4 0.3 0.28 Diagram 1

Effect that the size of the detecting object to the detecting distance



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- Points for attention when using the switch
- •DC power supply must use insulated transformer. Please do not use autotransformer.
- It is strictly forbidden to connect on live line. Wire must be connected strictly according to the color code on the connection diagram.
- It there is an electric line of force, and when the power line passes near the switch lead, the metal pipe should be covered on the switch lead and grounded to protect the switch from misoperation and damaging.



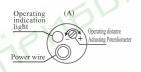
- AC proximity switch generally is not suitable for con ecting inparallel and series We suggest you to use relay in parallel and series.
- AC switch, DC two-line system switch must pass load to connect swith power supply. if directly connect the switch with power supply, the switch will be damaged.



- The length of the leading wire of the proximity switch should be below 200m for fear that voltage drop is too big.
- Instruction for capacitance proximity switch.

Ihe capacitance proximity switch can be used to check metal, as well as plastics, glass, water, oil and so on subsances. Because the conductivity, water absorption and volume of all kinds of detecting objects are different, the corresponding detectin distances are different, too. The max detecting distance is available to the ground metal.

- Different detecting objects and detecting distances
- In order to avoid misoperation, the capacitance proximity switch is not suitable for installing near high freauency electric field, such as near high freauency welder, supersonie generator and so on. Ten operating distace of the capacitance proximity switch generally can be adjusted to adapt different detecting objects. Therefore, when installing, it should be adjusted, please refer to the following steps for the adjustment method:









A.When the supersonic generator is rotated to the right, the detecting distance will enlarge and when it is rotated to the left, it will lessen. The adjustment revolution is 10 circles

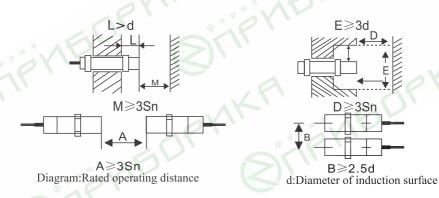
B.under without detecting object the potentiometer should be rotated slowly to the right do not stop until in the position of ON of the proximity switch.

C. When colsing to the detecting object, the potentiometer should be rotated to the left;do not stop until in the position of OFF of the proximity switch.

D.Adjust the potentiometer between ONand OFF. At this time, the adjustment of operating distance is end.

■Installation demand

When installing the proximity switch, please install it larger than the diameter in the diagram if there is metal around of when the switch is placed opposite of parallel, so that the reliable operation will not be affected.



■Digram of connection mode

