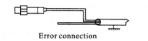
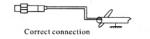
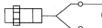
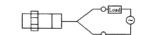
- Cautions when using the switch
- Please do not use autotransformer. DC power supply must use insulated transformer
- It is strictly forbidden to connect on live line. Wire must be connected strictly according to the color code on the connection diagram.
- If there is an electric line of force, and 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 mis-operation and damaging.





• AC switch, DC two-line system switch must pass load to connect switch power supply. If directly connect the switch with power supply, the switch will be damaged.





- Error connection • The length of the leading wire of the proximity switch shold be shorter than 200mm for fearing of the voltage drop
- will be too big to bear. ■ Instruction for capacitance proximity switch.

The capacitance proximity switch can be used to check metal, plactic, glass, water and other substances, Because of $the \ conductivity, water \ absorption \ and \ volume \ of \ all \ kinds \ of \ detecting \ objects \ are \ different, the \ corresponding \ detected$ distances are different, too. The sensing distance varies depending on the metal being detected.

- Different detecting objects and detecting distances.
- $\bullet \ \ \text{To avoid mis-operation, the capacitance proximity switch is not suitable for installing near high frequency electric }$ field, such as near high frequency welder, supersonic generator and so on. The operating distance of the capacitanceproximity switch generally can be adjusted according to different detecting objects. Therefore, when installing, it should be adjusted. Please refer to the following steps for the adjustment method:





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.

INSTRUCTION

B0

be rotated slowly to the right when the sensor is not detecting. Do not stop until it turns to the position of ON in the proximity switch.

B.The potentiometer should C. When closing to the detecting object, the potentiometer should be rotated to the left. Do not stop until it turns to the position of OFF in the

destance is end when the potentiometer is between ON and OFF.

proximity switch.

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.

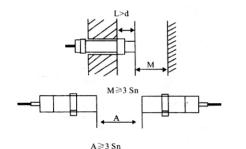
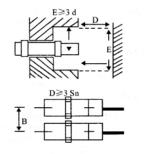


Diagram: Rated operating distance

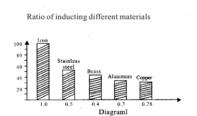


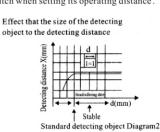
B≥2.5d d:Diameter of inductive surface

For example:LM18-3005 NA

The above switch is inductance type proximity switch. M18 refers to cylinder's diameter is 18mm, 30 stands for DC6-36V, 05 indicates the detective distance is 5mm. N stands for NPN negative logic and A is 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 different metals, the switch has different operating distances(Diagram 1).
- When the switch is used for measuring operating frequency or used in high-speed places, please set the operating distance of the switch within 1/20 of standard operating distance. Under this condition, the switch
- can reach max operating frequency. • Please refer to the instruction manual of capacitive proximity switch when setting its operating distance.



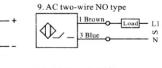


Switching frequency:

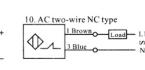
Diameter	Voltage	Frequency	Voltage	Frequency			
8mm	AC	500HZ	DC	1500HZ			
12mm	AC	400HZ	DC	1000HZ			
18mm	AC	200HZ	DC	800HZ			
30mm	AC	150HZ	DC	500HZ			

■ Diagram of connection mode

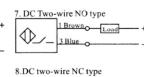
1. PNP NO type 5. NPN NC type 4 Black Load 4 Black Load 3 Blue 6. NPN NO+NC type

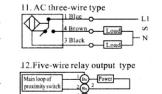


2. PNP NC type 4 Black Load 3 Blue



3. PNPNO+NC type





4. NPN NO type 4 Black Load 3 Blue

1 Brown Load

- About proximity switch
- Honorable customers, thanks for selecting and using our company's sensors. When using our company's products, please consult the instruction first to avoid unnecessary losses caused by mis-operation. Because the product is improved unceasingly, the sensors you got may be different from the drawing in the instruction.

INSTRUCTION MANUAL OF PROXIMITY SWITCH

 $\bullet \ Uses: it is suitable for controlling the limit machine tool, detecting, counting velocity measurement, liquid level, signal,$ and automatic line for locating sending signal, etc. It is also widely used in machinery, mine metallurgy, plastics, textile, chemical industry, light industry, tobacco, electric power, railway, war industry and so on.

Model explanation of proximity swith:

				M18	-	30	0	5 <u>N</u>	A		_			
Switch category	Outward appearant	e code	Working	g voltage	Detec	tion distance		Output form	Ot	tput state	Sub	sidiary function	Subsi	idiary function
L Inductance type	W		30 310	6-36 VDC 5-24	01	1 mm	N P	Three-wire DC NPN output Three-wire DC output	A	NO NO	Т	With aviantion Socket	F	Long sensing range Non-flush
S Hall type	M cylinder	type	320	VDC 12-60 VDC			L	Two-wire DC output	В	NC	Y	Water proof oil proof	м	Long sensing range Flush
A Safety pact type		-		90-250 VAC	0.5	5mm		AC two wire output	C	NO+NC	-			
X Mimic lineartype	angula columi MF type ar	n.		24-250 VAC	\vdash		w	AC three-wire output	MU	Mimic voltage	1	Special requirement	X	Upgrade Function
H reed type	plane	- 11	220 3	80VAC	10	10mm	J	Relay contact output	\vdash	<u> </u>				
R ring type	install:	ation	4 12	2-240VDC 4-240VAC	10	10mm	NP	NPN+PNP double output	MI	Mimic current	Н	High temp resistane	SDD	Lot Number
							_	-1						