



# Shenzhen OKD Technology Co.,Ltd

## Dry reed pipe principle

Dry reed pipe is dry tongue reed pipe abbreviation, is a kind of have the contact's passive electronic switch components, the structure is simple, easy to control the advantages of small size, its shell is generally a root sealed glass pipe, equipped with two iron in the flexibility of the reeds panels, still have a kind of call metal filling rhodium inert gases.

At ordinary times, in the tube by two special material made of reeds is separate when a magnetic material near the glass tube, the magnetic field lines, under the action of the tube, the two reeds be magnetized and attract each contact, reeds will suck together, make the circuit connected. The magnetic force disappeared after two reeds because of their stretch and separate, line is also is returned.

## Characteristics and application

**1,** dry tongue reed pipe compact structure, small weight, can be installed in the extremely limited space, very suitable for miniaturization equipment.

**2,** dry tongue reed pipe of the switch components is hermetically sealed type in a inert gases in the atmosphere, never with the outside environment contact, long working life

**3,** dry tongue reed pipe not the sliding components, so will not occur in all the metal relegation metal fatigue phenomenon, ensure that in fact no limit of machinery service life

**4,** magnetic reed switch get a good application on the phone ,to the washing machine ,of SPC exchanges refrigerator ,camera disinfect ,cupboard door magnetic, window magnetic ,electromagnetic relays ,electron weighing ,apparatus level gauge ,gasometer, water meter, and so on .

## Electrical parameters



Exposure mode	A
Maximum power	10 W
Maximum switching voltage	100 VDC
Minimum breakdown voltage	220 VDC
Maximum switching current	0.5 A
Maximum load current	1.0 A
Maximum contact resistance	100 mΩ
Minimum insulation resistance	109Ω
Action time	0.6 ms
Bounce time	.....
Release time	0.4 ms
Frequency response	3000 HZ
Maximum operating frequency	400 HZ
Sensitivity value	10-35 AT
Minimum reset value	5 AT
Maximum contact capacitance	0.3 pF
Electrical life Load	5V-10mA-2x10624V-250mA-1x106
Test coil Turns Resistance	5000 T 620 Ω

### Dry reed of the use of the matters needing attention

1, shear or bending dry reed pipe of the lead foot be extremely careful, lest exert not proper stress and make the glass-metal seal is damaged the appropriate clamping tools is must use

2, meet temperature and long exposure time could lead to glass-metal seal injury (craze, leakage, etc.), so must the rapid and reliable welding technology (process). Suggested the welding conditions for: the hand when welding 280 ~ 300 ° C, wave soldering when 250 to 300 ° C.

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