1. 适用范围：Scope of application:
浮球开关又称水位开关，适用于制冷、饮水、水处理等行业。
Floating ball switch, also known as water level switch, is suitable for refrigeration, drinking water, water treatment and other industries.

2. 规格尺寸：
Specification size:
参照3/4规格图
Refer to 3/4 specification chart

3. 动作形式：
Action form:
当液面下降接点断开/当液面上升接点导通
When the liquid level drops, the contact close/when the liquid level rises, the contact opens

4. 规格：Specifications:

4-1 接点容量 Contact capacity	10W
4-2 开关电压 Switching voltage	DC/AC 100V max
4-3 开关电流 Switching current	DC 0.5A max
4-4 涉水温度 Temperature of Water	0℃～+80 ℃
4-5 使用液体 Liquid	水 Distrilled Water
4-6 储存温度 Storing Temperature	-30℃～+80 ℃
4-7 工作温度 Operation Temperature	-20℃～+80 ℃(For Reed Switch Only)
4-8 高温测试 High Heat Resistance	+80 ℃/96h
4-9 低温测试 Low Heat Resistance	-20 ℃/96h
4-10 冷热冲击测试 Heat Cycle Resistance	-20℃～+80 ℃ 5次循环 -20℃～+80 ℃ 5Cycles

5. 性能：Attributions:

5-1 动作点 Action point	参照动作特性 Reference action characteristics
5-2 最大接触电阻 Max. contact resistance	0.25Ω以下 0.25Ω
5-3 冷态绝缘电阻 Cold insulation resistance	100 MΩ以上 >100 MΩ
5-4 绝缘耐压 Dielectric Strength	AC 1500V
5-5 电器寿命 Electrical life	>1×10^6次以上（DC5V 10mA） >1×10^6（DC5V 10mA）
5-6 引出端强度 Terminal tensile	应能承受30N 以上的拉力。 Should be able to withstand more than 30N tension strength

6. 检验方法：Test method:

6-1 动作特性 Action characteristics
动作符合动作特性的距离规格要求。
The movement meets the distance specifications of the movement characteristics.

6-2 初始接触电阻的测试方法：Test Method of Initial Contact Resistance:
将浮球移至导通区域使内部电路联通，然后用微电阻测试仪测试相应水位的两端的接触电阻。
The floating ball is moved to the conduction area to connect the internal circuit. Then the contact resistance of the two ends of the corresponding water level is measured by a micro-resistance tester.

6-3 绝缘电阻的测试方法: Test method of insulation resistance :
带电部件与外壳间用DC 500V据表测量。
DC 500V Meter Measurement Between Live Parts and Shells

6-4 绝缘耐压的测试方法 Test method for insulation withstand voltage
带电部件与外壳间施加AC 1500V 50HZ电压1min。
Applying AC 1500V 50HZ voltage between live components and housing for 1 minute

6-5 寿命测试 Life test
按照5-5的条件要求 According to the requirements of 5-5
1） 接点通断正常 Connection is on and off normally
2） 接点电阻小于1Ω Contact resistance less than 1
3） 动作距离变化在0.5mm以内 The movement distance varies within 0.5mm

6-6 耐水性测试方法 Testing method for water resistance
把浮子浸在水中1000小时以上，重量变化率在±0.6%以内。
When the float is immersed in water for more than 1000 hours, the weight change rate is less than (+/-0.6%).

6-7 引出端强度测试方法 Test method for strength of lead-out end
接线施加不小于30N的拉力1min,不出现松动等异常现象。
No abnormal phenomena such as loosening occur when the tension applied to the wiring is not less than 30N force for 1 minute.

6-8 螺母扭力测试要求 Twisting test request for nut
使用扭力计测试扭力值不小于40N.CM
The twisting force is less than 40N.CM

6-9 跌落高度标准 The falling test request
裸品最大跌落高度30cm
The products without packing falling test height is 30cm
包装后最大跌落高度40cm
The products with packing falling test height is 40cm

7 磁簧开关的原理与特性 Principle and Characteristic of Reed Switch

7-1 采用高导磁、低阻抗的一组金属片封闭在充满惰性气体的玻璃管内构成磁簧开关。
A group of metal sheets with high magnetic conductivity and low impedance are enclosed in a glass tube filled with inert gas to form a reed switch.

7-2 利用玻璃管内的惰性气体环境来确保开关的正常动作。
Using the inert gas environment in the glass tube to ensure the normal operation of the switch

7-3 磁簧开关能否动作的关键
The Key of whether the Reed Switch can operate or not
a.玻璃管的封闭效果
Closure effect of glass tube
b.感应磁铁的磁通量是否适当
Whether the flux of induction magnet is appropriate
c.通过的电流是否符合开关的规格要求
Whether the current passing through meets the specifications of the switch。

8 使用注意事项 Precautions for use

8-1 请勿在强磁环境下使用
Do not use in strong magnetic environment

8-2 固定支架建议使用不锈钢或塑料件
Stainless steel or plastic parts are recommended for fixing brackets