

L-MQK-X Float Level Switch

Basic Parameters:

Contact Capacity: 220V / 0.7A
 Switch Voltage: 24VDC / 220VAC
 Connecting Flange: None
 Insulation Resistance: > 100m Ω
 Thread Size: M16 * 2 * 50mm
 Material: SUS316
 Output Signal: switching value (four wire)
 Working Temperature: -20~100°C
 Working Pressure: 0 ~ 1.0MPa
 Medium specific gravity: > 0.55



Model Selection

L-MQK	-A-	-R	-C
Temperature transmitter module	Installation	Relay outputs	Material
	1: Flange (e.g. A1-DN50, A1-2") 2: Thread (e.g. A2-1"BSP, A2-M27*2)	1: 1 relay 2: 2 relays 3: 3 relays 4: 4 relays 5: 5 relays	4: 304 SS 6: 316SS 1: PTFE 0: Specified

Installation Precautions:

1. The installation position should be far away from the water inlet, otherwise the switch will cause malfunction due to the large fluctuation of the water inlet.
2. If the switch device is on the concrete pool wall, L-shaped angle steel bracket can be added, and wave tube can be installed in the mixing area.
3. Select the flange connecting pipe whose diameter is larger than the floating ball diameter. It is recommended to use \varnothing 8mm multi-core cable for wiring.
4. The controlled line load must match the switch contact capacity.
5. The specific gravity of the measured liquid must be greater than that of the floating ball.
6. Plastic material is suitable for acid and alkali liquid, metal material is suitable for oil, water and other liquid.
7. The action point of the floating ball has been adjusted at the time of delivery according to the customer's order requirements. Please do not adjust the position of the ring buckle used to fix the floating ball at will, so as to avoid the switch mis-operation.

Contact Protection Circuit:

1. When the switch is used in the circuit with motor, relay and other inductive loads, it is recommended to parallel the protection lines at both ends of the load, such as RC (buffer), rheostat, diode, etc., and do not directly connect the switch to the solenoid valve, motor.
2. When the magnetic spring switch is used in the capacitive load circuit with capacitor, white hot bulb, long cable, etc., a sudden rise current will be generated between the contacts of the switch. It is recommended to parallel the protection lines at both ends of the magnetic spring switch, such as current limiting resistor or surge absorber, etc.

Wiring And Contact Description:

1. Connect the connecting flange and aluminum junction box with the top thread of the floating ball switch rod wrapped with Teflon tape in turn, and connect the terminal into the terminal of the junction box.
2. Select the terminal connection according to the switch position and wiring color. Note that the floating ball switch is weak current, which can not directly control the start and stop of the water pump. An intermediate relay shall be added in the middle to realize the control function.

Common Faults And Troubleshooting:

NO	Troubleshooting	Cause Analysis	Exclusion Method
1	Floating ball has no action	1. Specific gravity of liquid is less than that of floating ball 2. Floating ball leakage 3. Foreign object stuck in floating ball	1. Redefining the specific gravity of floating ball 2. Contact our company to replace the floating ball 3. Clear foreign matter
2	Floating ball action, but no signal output	1. The floating ball is on the high side 2. Magnetic spring switch damaged 3. Damaged connecting wire	1. Adjust float position 2. Replace the magnetic spring switch 3. Check the connecting wire and replace it
3	Abnormal signal output	Magnetic field interference nearby	Eliminate magnetic field
4	Signal hold, unable to recover	Floating ball can not be reset, foreign matters are stuck	Remove foreign matters
5	There are two signal outputs at one point	Movement of buckle position	Adjust the position of the buckle

Wiring Diagram:

