

Liquid level float switch series YWKG01

FEATURES

- Single control water, control water tower water.
- Single control launching, control underground garage drainage.
- Upper and lower linkage, both upper and lower pool control.
- Water protection to prevent dry burning of the pump.

Applications

- Liquid level monitoring of ship's oil tank, water tank and other equipment.
- Monitor the liquid level of cooling water tower, transformer oil level and other equipment.
- Widely used in oil refining, chemical industry, paper making, food, and sewage treatment and other industries.

Float switch must be used with AC contactor or pump control box. Separately connected motor use caused by damage without warranty, no after-sales. The float style is not the same, the working principle is the same, the wiring method is common, and the wire color (for reference) will have some differences in each batch. The appearance is different, the switch structure is the same, the internal switch accessories are basically the same, and the installation precautions are the same. Check whether the float is cracked before use to prevent leakage accidents.

Pay attention to;

There will be electric leakage accidents and short circuit faults caused by water flooding of the wiring part. Select the length of the cable according to the actual situation. The stainless steel ball is used for hot water or boiled water. After a long time, there will be sweating water inside the float ball, resulting in a break.

Refer to the following figure for the wiring method

Float switch use prone to problems

1; If the liquid level fluctuates too much and the float swings frequently, the switch cannot be switched on, or the adhesion cannot be disconnected.

Solution: The water inlet should not be suspended on the water surface, but should be extended to the bottom of the pool, so that the water is smooth and the switch is durable.

2; The motor power is too large, the copper wire becomes black, the wire is burned, and the switch adhesion cannot be disconnected.

Solution: With the pump controller or AC contactor, so that no matter the size of the motor can be used, the control is durable.

Note: The switch damage caused by the above problems is not a quality problem of the product itself, please do not ask for a return or replacement with quality problems. Change the product structure, length, cable cutting, missing accessories, wire burning damage and so on.

Size



About the Contactor

When the power is greater than the floating ball bearing power range, it is necessary to use contactor, contactor selection can be based on the power of the motor.

Motor $\leq 500W$ can directly use the float ball

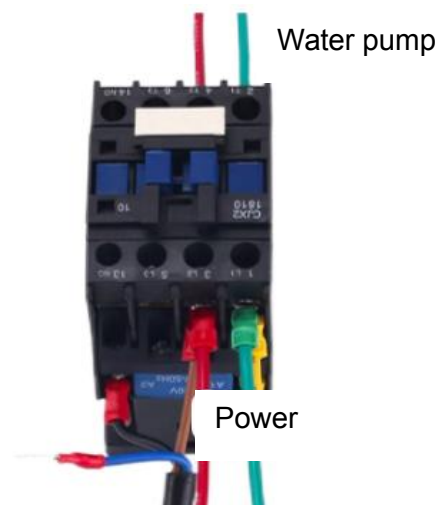
A motor $\geq 500W$ is recommended to be used with a 220V AC contactor

Three-phase motors must be used with 380V AC contactors

Water supply cable:
Connect the black cable and blue cable



Drainage cable:
Connect black and brown cables



About the Wiring

"Blue" and "black" through the bottom, not the top

When the float head is down, turn on the power pump to start, the water level of the tank slowly rises, and the float also floats

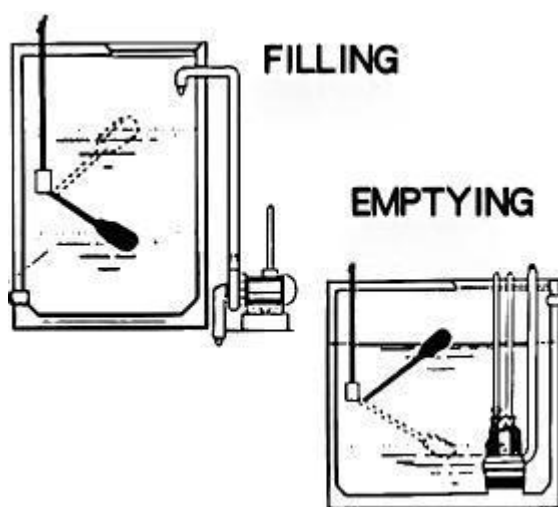
When floating head up, the ball in the float falls, disconnect the power supply, and the pump stops. Float the ball after using water

Head down, power cycle in turn.

"Brown" and "black" through the top, not the bottom

When the float head is up, the power is on, the motor is started, the water level of the tank slowly drops, and the float also sinks.

Power off when falling head down, pump stops. As the water continues to pour in, the water level rises, the float heads up, The power is circulated in turn.



Water supply system

Using "black" and "blue" wires:

When the float is in the lower water level, the contact is connected

When the float is in the upper water level, the contact is blocked

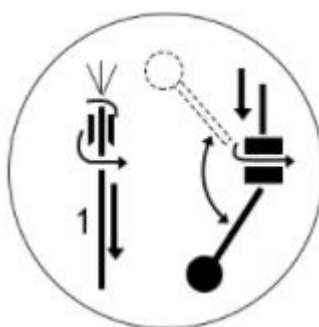
Drainage system

Using "black" and "brown" wires:

When the float is in the upper water level, the contact is connected

When the float is in the lower water level, the contact is blocked

About the weight



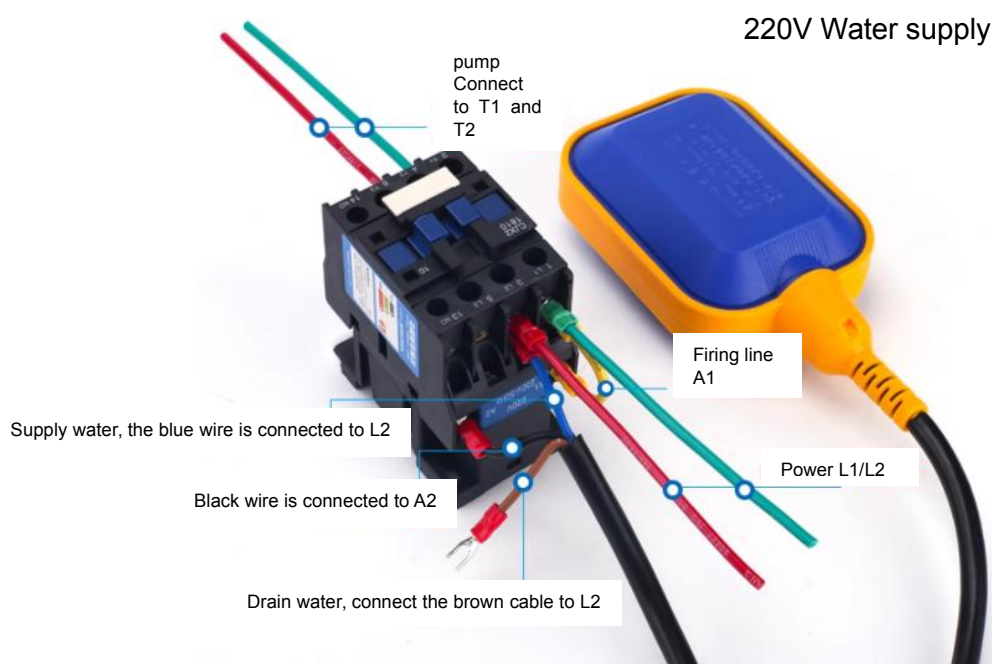
The position of the weight is installed at about 1/2 of the water level to be controlled.

For example: a user's water tank is 2 meters, the water is automatically cut off when the water is full, the motor power is 350W, then the heavy hammer is installed at 1 meter, and the line is connected to the "black and blue" control.

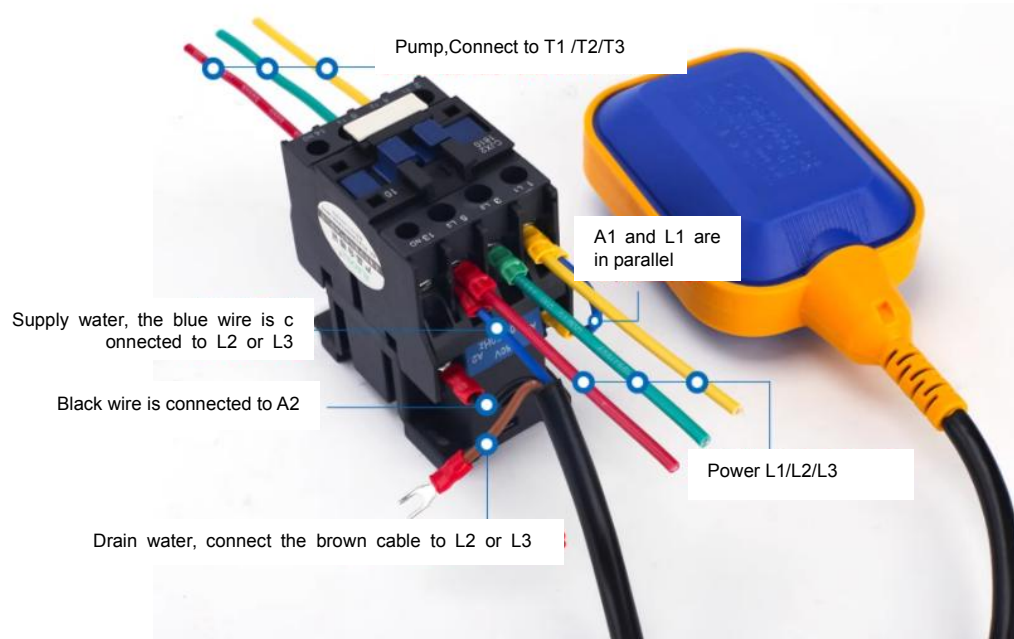
The placement of heavy weights

1. Insert the wire of the float switch from the concave hole in the center of the weight, and gently push the weight. The plastic ring embedded above the round hole falls off due to the thrust of the wire head. (If necessary, you can also remove this plastic ring with a screwdriver), and then put this loose plastic ring over the cable. You want to set the weight weight to set the water level.

2, gently push the heavy hammer pull out the cable until the center of the heavy hammer buckle the plastic, the heavy hammer as long as the light buckle in the plastic ring will not slip, if the plastic ring is damaged or lost, you can use the light bare copper wire buckle into the cable instead. Please buy our float switch corresponding to the number of meters according to demand, can be pulled directly into the control box, try to avoid the use of intermediate joints, if there is a joint, do not connect the cable head immersed in water.



380V Water supply



380V Drain water



220V Drain water

