General

SSR-05D liquid level control relay has been designed for controlling the discharge of tanks and wells containing conductive liquids.

Usage of Device and Working Principle

Make the connections of the device according to the diagram.

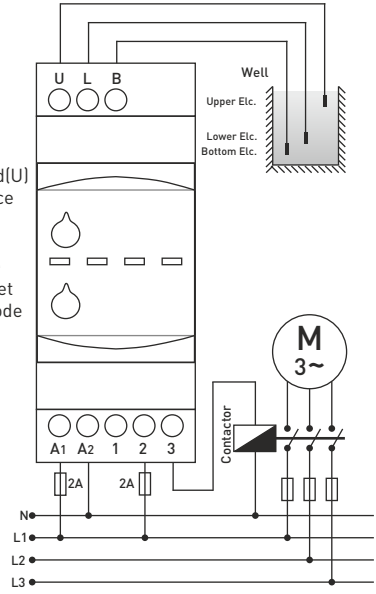
If the liquid level within the well is between the base (B) and lower (L) electrodes, the lower led(B) will be light up. If the liquid level is between the lower (L) and upper (U) electrodes, the led of the electrode in the middle(L) will be light up. If the liquid level reaches to the upper electrode, the upper led(U) will be light up. When the liquid level reaches to the upper electrode, the device counts for the time adjusted before. As the device is counting, the upper electrode led blinks. At the end of this time, the upper electrode led lights up constantly, the relay led(OUT) lights up and the relay draws current. When the relay draws current, the contactor is transferred from outlet 1(NC) to the outlet 3 (NO). When the liquid level falls below the lower electrode, the lower electrode led lights up, the relay led turns of and the relay releases.

Sensitivity Setting: You can adjust the sensitivity by (100KΩ) button. Make sure that the electrodes are in contact with water as you are adjusting the sensitivity level. Then turn the button towards 100KΩ. When the device detects the electrodes, it lights up the upper electrode led and relay led and draws the relay. In order to provide the device to detect the electrodes, the liquid resistance value should be lower than the value adjusted beforehand.

Time Setting: When the liquid level reaches to the upper electrode as the well is being filled, the device waits in order to draw the relay. This waiting time is adjusted by the time (30min) button. You can adjust the upper electrode waiting time as you want. While the device is counting this waiting time, the upper electrode led blinks. Blinking of medium electrode led shows that while the upper electrode is in contact with the liquid, the lower electrode is not. Check the connections.

Note: For two-electrode systems, short-out the upper (U) and lower (L) electrodes and use them together with the base (B)electrode.

Connection Diagrams



Maintenance

Switch off the device and release from connections. Clean the trunk of device with a swab. Don't use any conductor or chemical might damage the device. Make sure device works after cleaning.

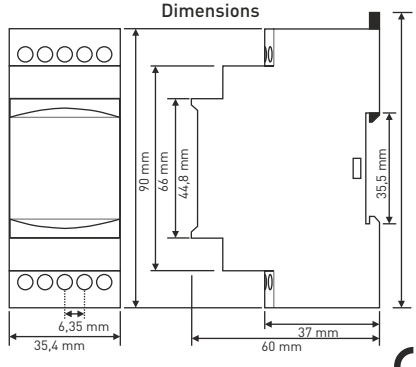
Warnings

-Please use the device according to the manual.
-Don't use the device in wet.
-Include a switch and circuit breaker in the assembly.
-Put the switch and circuit breaker nearby the device, operator can reach easily.
-Mark the switch and circuit breaker as releasing connection for device.
-Make sure that the liquid is not flammable or explosive.

Tecnical Specifications:

Operating Voltage(Un)...:	150 - 260V AC
Operating Frequency.....:	50/60 Hz.
Operating Power.....:	<6VA
Operating Temperature..:	-20°C.....+55°C
Waiting.....:	0.1min.- 30min.
Display.....:	4 x led
Connection Type.....:	Terminal connection
Contact.....:	5A/250V AC (Resistive Load)
Sensitivity .....:	<100KΩ
Cable Diameter.....:	2,5mm²
Weight.....:	Max. 250gr.
Mounting.....:	Vertical assembled in the panel or assembled on the din rail.
Operating Altitude.....:	<2000meter

Dimensions



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