Controlling A Level

The BR series level switch should be good for millions of operations. The process connection in one piece CNC machined. Hermitically sealed reed switches rated at 240V – 0.5A are located and epoxy sealed internally. The float magnet actives the switches at customer specified positions along the length.

The SSR1000 is one of many ways to control the level. The product incorporates the necessary snubber circuits; it has a position LED, is DIN rail mounted and sends a safe low voltage signal to the switch from it's built in power supply. It has an internal 240V 8A resistive relay. This unit will set the logic to maintain the level between two points. Once one position is activated – it then becomes latched. The relay will only change states when the other switch point is reached. It can pump up or down – depending on the logic used. Please see the SSR1000 manual. The SSR500, not shown, is a dual alarm relay and is used for Hi and Low alarms. There are many logic options.

A Power Relay or contactor is sometimes required if the load (s) exceeds or stresses the load on the SSR1000. The diagram below illustrates one possible way to connect the unit, however many options are possible. Even though a motor may run with 4A, it may draw 15A on startup. The diagram shows using a 24V relay, however any relay up to 240V – 8A can be used.