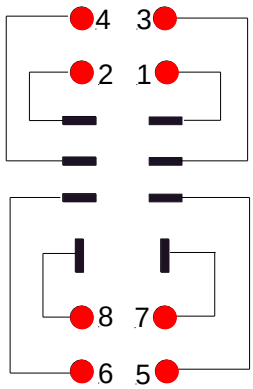
Cable Float Switch

The SC series cable float switch is a mercury free level switch for applications requiring rugged conditions and high loads. A micro switch and floating ball replaces the mercury type. An internal sealed ball simply rolls back and forth in a chamber activating a micro switch in either closed or open position as the float rotates up.

In applications requiring higher loads a remote control box is required and supplied – usually with 120V 15A relays installed. The two wires from each level switch are then used to operate the 120 V coil only on the relay. The DPDT 15A contacts are then used control either pumping up, pump down, high alarm, low alarm and lag pumps etc. Bring the wires from the level switch into the coil side of the external box for ease of installation. The coil is pin 7 & 8 or the two vertical pins below. 120 VAC would also be incorporated in that loop per qualified electricians knowledge.

There is no terminal strip located in the level switch junction box due to room restraints. Cable end connectors are supplied, inside the box for terminal connections.

A qualified electrician must complete the electrical Installation and local electrical codes must be adhered to. You are working with high voltage and current – be aware.

Remote Relay **CSA** – File – LR15734 **UL** – File – E22575 **Volts:** 15A **Form**: 2 Form C (DPDT) **Coil Voltage**: 120VAC Note: Confirm with diagram on relay top surface	 K10 - 11A15 - 120 Relay

Weight: A substantial weight is supplied to keep the series of floats in a vertical position. If the tank is not deep enough you can allow the weight to touch the bottom and angle to one side. Check to make sure the cable is tight if this occurs.

Installations: A qualified fitter should install the flange according to local specifications. This is not a pressure sealed due to the cables passing through the flange. Make sure nothing tangles as the unit is lowered into the tank. It is quite heavy and care should be taken.

Operation: The floats are rated at 120 V and are all SPST switched. In the dry position, floats hanging down, they are in the normally open position, N/O. The contacts will close on rise open on fall. Closed means – complete the circuit. The DPDT relay is then used to design many optional logic sequences. This should be quite straightforward for a qualified electrician.

Maintenance: usually none except if an excessive amount of sludge is allowed to build up on the floats – then they must be cleaned periodically.

Model: 3” ANSI 150# Flange, L1 = 350 mm, L2 = 550 mm, L3 = 1150 mm, L4 = 1350 mm c/w remote 15A relay box.