


# DHC1Y-SD - MODULAR ELECTRONIC RELAY FOR WELL-THANK CONTROL

The DHC1Y-SD is a probes level relay, in DIN modular format, with input voltage 230Vac or 400Vac (bi-tension) and output through a switched contact. It is specially suitable for its use inside electrical distribution modular components panelboards.

Its output becomes active (closing the open contact and opening the closed one) when the well water level reaches the maximum level, keeping this position until the level descends below the minimum, except into the case that the well keep fill again (probe MAX of the well) in which case the output will be deactivate until reaching the minimum level.

Its main application, therefore, is the aspiration protection of a bomb that impels water from a well (or from a thank) to the destination thank, and the automatic stop when the well is being filled.

For the level detection are used 3 probes inside the well one that works as common terminal, situated below to the other two probes. The second one detects the minimum level and the third one used for control the maximum level. Three more probes are used also into the well.

The device detects the level when the water reaches one of the level probes settling a micro-current between the common probe marked with the symbol "  " and the probe to which water is touching at present. The level probes are isolated and the voltage reached is completely inoffensive.



## ELECTRICAL CONNECTION



The electrical connection should be made for a professional, taking into account the present standards, using the appropriate cable and not overloading the output. If necessary, should be used separation contactors between the control and the power circuits.

The 230Vac input current should be connected between the terminals A1 and A2, and for the 400Vac input current should be connected between the terminals A1 and A3 into the upper side of the device.

Into the lower right side there are the terminals for the 6 level probes. To the upper left side there are the terminals corresponding to the change-over contact. These terminals are: 15 COMMON, 16 NC contact and 18 NO contact.

