U4TS Electronics with the U4T_Kneipp 3 Program

After pressing the button connected between IN1 and + (common), the 230 V pump or the valve connected to OUT1-PUMP is turned ON. The pump stays on until it is turned off by the lower level HLS connected to the terminals HLS ON by the safety time (the safety time for pump operation is counted down tbp = 5 min. in case the HLS fails, or the drain is clogged, or the pump is not primed).
After the draining is finished (HLS detected dry pipe or the time of 5 min .has elapsed) the pump is turned off (output OUT1=OFF) and the output OUT2-BLOWER is turned on (inlet valve connected) for the period of time tn = 4 min 30 s (time required for filling the pool with water) or until the upper level HLS turns on, which is connected in the following way: + (red)…terminal + HLS. (blue)…terminal HLS, I (black)…terminal IN3.
After the refilling has finished, the output OUT3 lighting transformer turns on. This state remains until the next press of the button IN1, which turns off the lighting (OUT3), and draining and refilling according to points 1, 2 ensues.
If you want to keep the pool drained, press and hold the button IN1 during draining the pool will be drained and will not be refilled.

C**ontrol button…IN1, common**
lower level HLS …..terminals + (red), - (blue), I (black) HLS terminal block
upper level HLS … terminals + (red), - (blue) HLS terminal block, I (black) terminal IN3
OUT1…outlet valve or pump 230 V, max. 12 A
OUT2…inlet valve 230 V, max. 8 A
OUT3…lighting transformer 230 V max. 3 A

The electronics has 3 inputs with connection indication and 3 230 V AC outputs with max. current of 8 A.
Pressing the button connected between IN1 and common Inputs terminal block turns on the OUT1 outlet for the time set using the programming switches. Another press of the button turns the outlet off at any time.
This is the same for the inputs IN2, N3 and the outputs OUT2, OUT3.
The time of output operation is counted down for each outlet separately after the button is pressed; an output turns off after the set time has elapsed.
The 12 V indicator LED is connected between the terminals +12 V and LIN1 of the terminal box Indications for the output OUT1 ,+12 V and LIN2 for the output OUT2, +12 V and LIN3 for the output OUT3.
A water level sensor HLS-K or HLS can be connected to the electronics to prevents turning the outputs on in case of lack of water.

Connecting buttons:
closing contact = IN1 (2,3),comm
indication = +12 V, LIN1 (2,3)
The indication mode, control button function and maximum time for attraction operation can be set with the programming switch S1:
switch 1… setting indication mode:
OFF = the indication is off in standby and on when the function is ON
ON = the indication is on in standby and flashes when the function is ON

switch 2… setting the control button function:
OFF = turning off and on is always performed with one press of the button
ON = turning off and on is always performed with two presses in quick succession this is used for a piezo control button, which is placed in hard operating conditions (under water, at the edge of a pool, in rapidly changing temperatures…)

switches 3, 4, 5 and jumper JP1…off - time timer
The time can be set within 5 - 35 s and 5 - 35 min. The programming jumper JP1 is used to select seconds or minutes, the switch S1 sets their number.

Switch	time	switch	time
3 4 5	s/min	3 4 5	s/min
0 0 0	does not turn off		

switch No.6 = unused

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