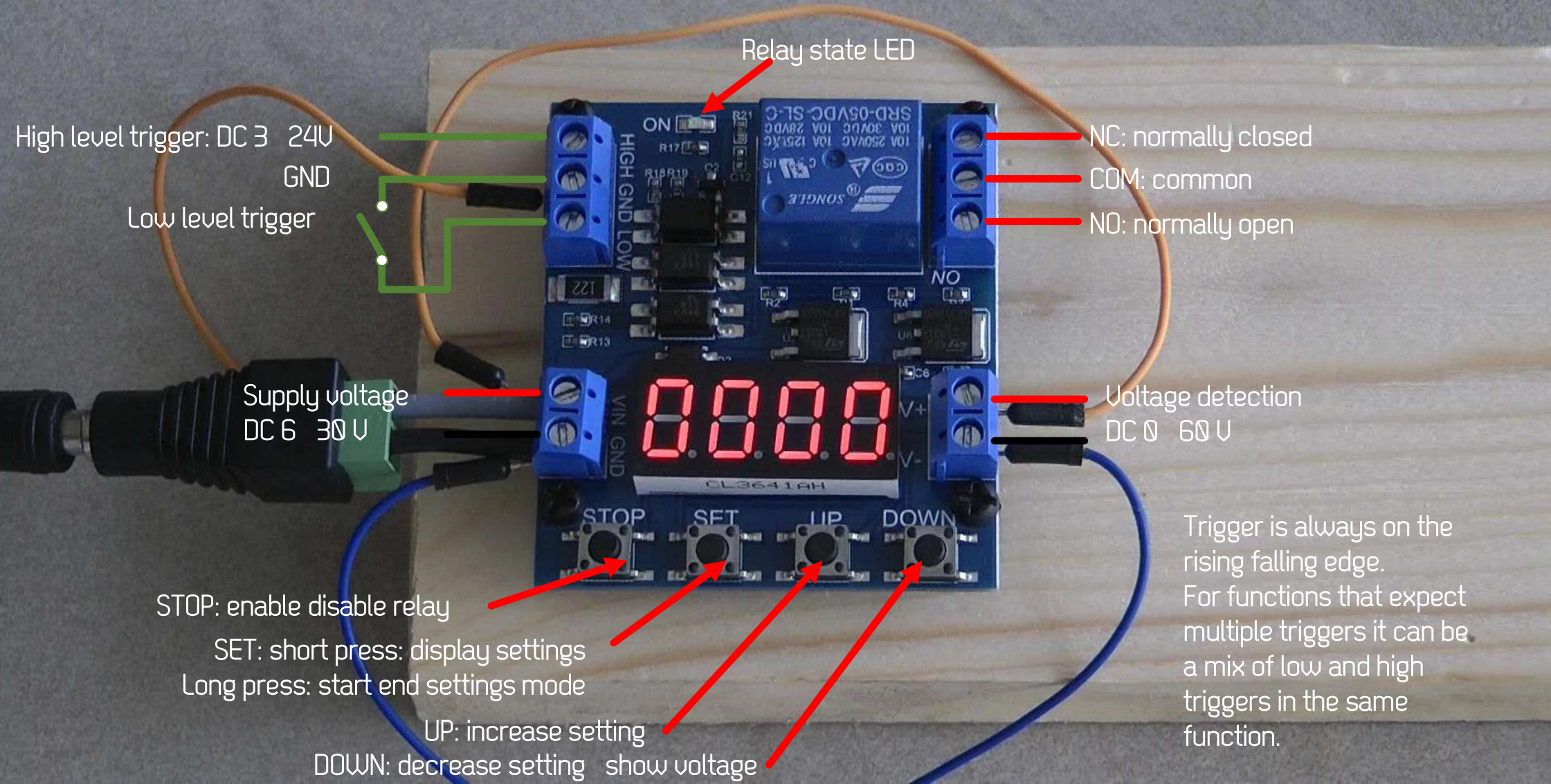


XY-J05 Relay, trigger, voltage detection module



Function parameters

OP: length of on cycle

CL: length of off cycle

LOP: number of cycles

CnOP: trigger counter for on

CnCL: trigger counter for off

UL1: Upper voltage

nL1: lower voltage

Time format

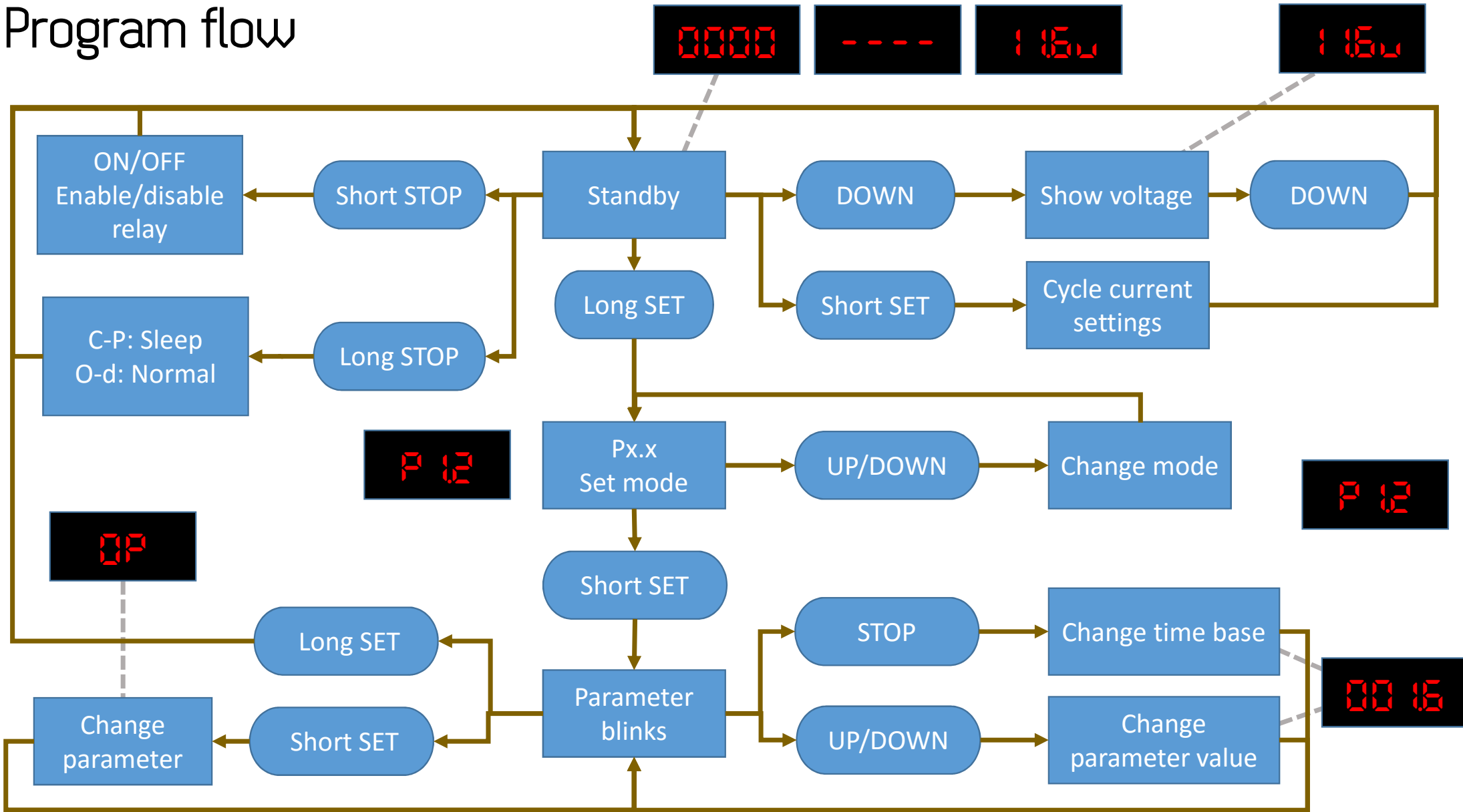
00 15. : 15 seconds

00 15 : 1.5 seconds

00. 15 : 0.15 seconds

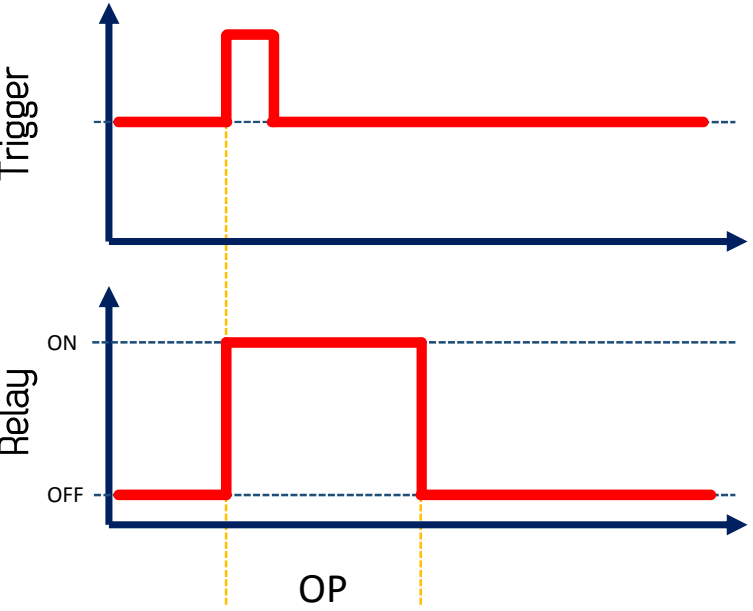
00. 15. : 15 minutes

Program flow



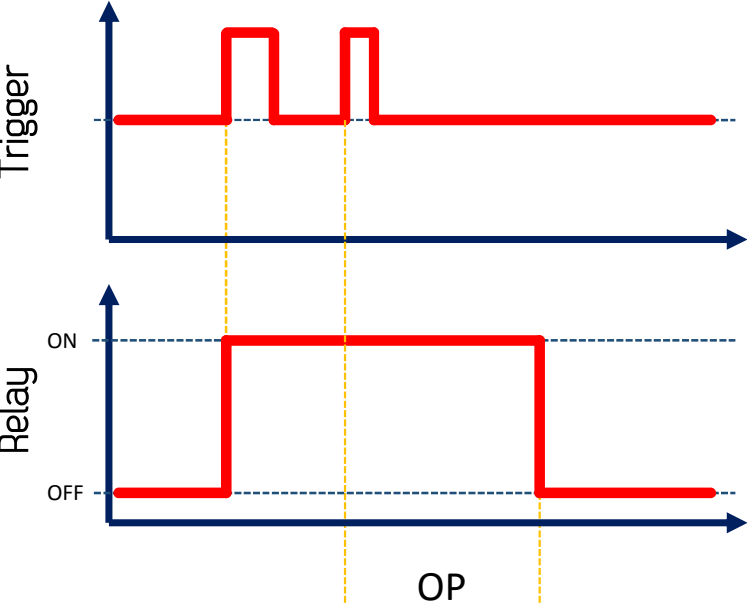
When the trigger signal is received the relay turns on a starts an OP length on cycle, after which in turns off.

P1.1 – Off delay



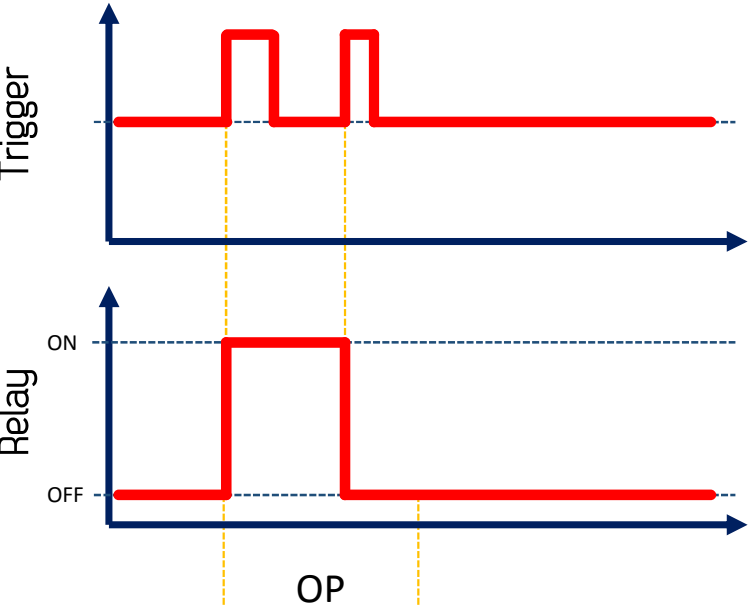
When the trigger signal is received the relay turns on a starts an OP length on cycle, after which in turns off. Any subsequent trigger restarts the OP timer.

P1.2 – Off delay with re-trigger



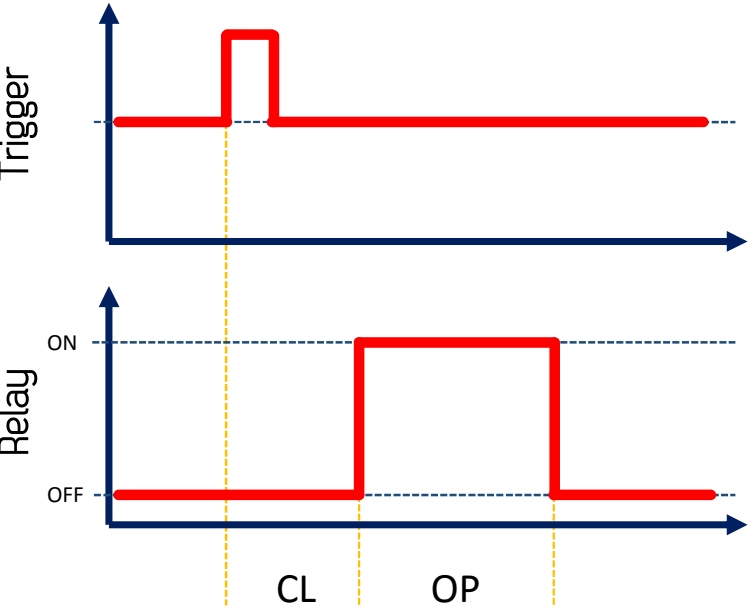
When the trigger signal is received the relay turns on and starts an OP length on cycle, after which it turns off. Any subsequent trigger stops the OP timer and turns off the relay.

P1.3 – Off delay with reset



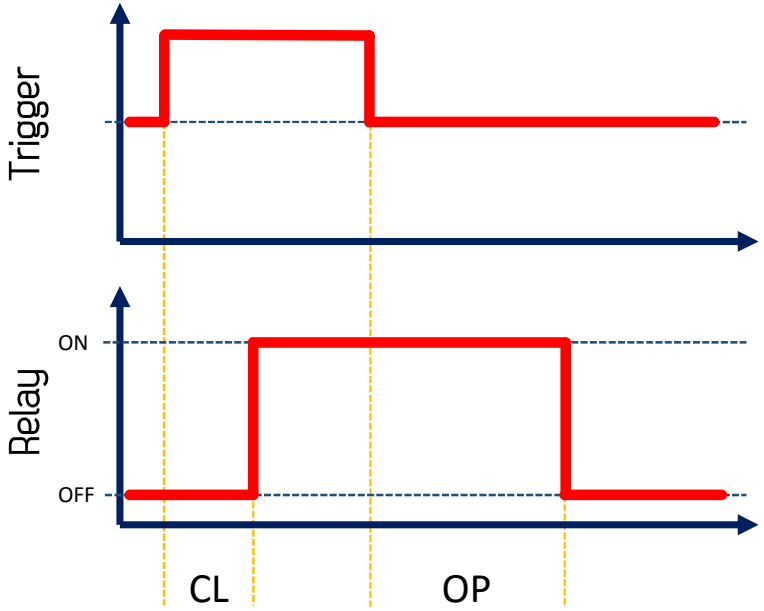
When the trigger signal is received the CL length off cycle is started, after which the relay turns on for OP length time and turns off again at the end.

P2 – On delay



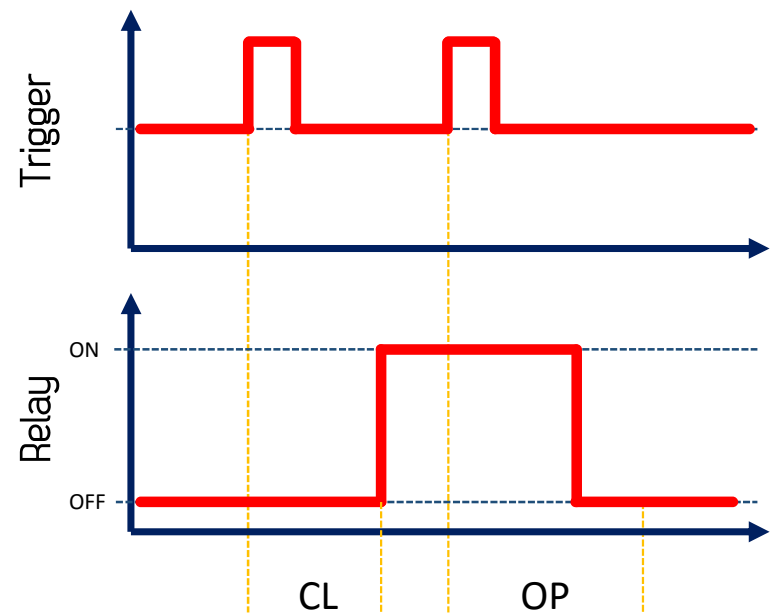
When the trigger signal is received CL off cycle is started. This cycle only completes if the trigger signal is held. At the end of the CL cycle the relay turns on. When the trigger signal is released the OP cycle starts and the relay turns off at the end.

P3 – On delay with input hold



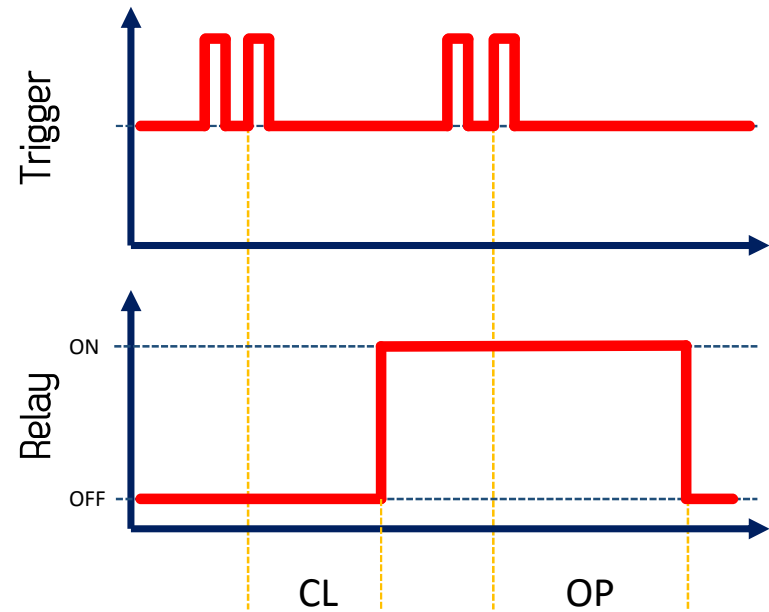
When the trigger signal is received the CL off cycle is started. At the end of the cycle the relay turns on. The relay stays on until another trigger is received. The second trigger starts the OP cycle at the end of which the relay turns off.

P4.1 – On-off delay with off re-trigger



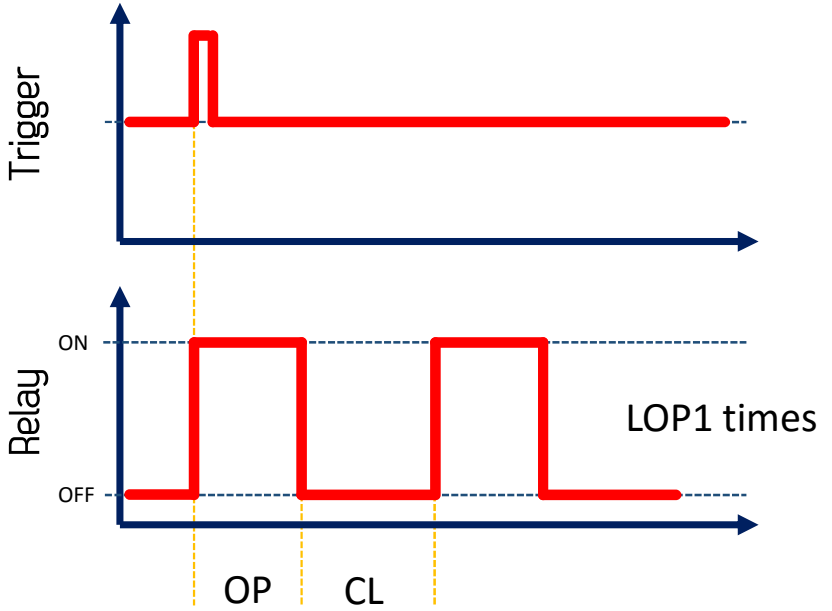
When the trigger signal is received the CL off cycle is started. At the end of the cycle the relay turns on. The relay stays on until another trigger is received. The second trigger starts the OP cycle at the end of which the relay turns off. Additional trigger signals both in the CL and OP cycle restart the counter.

P4.2 – On-off delay with re-trigger



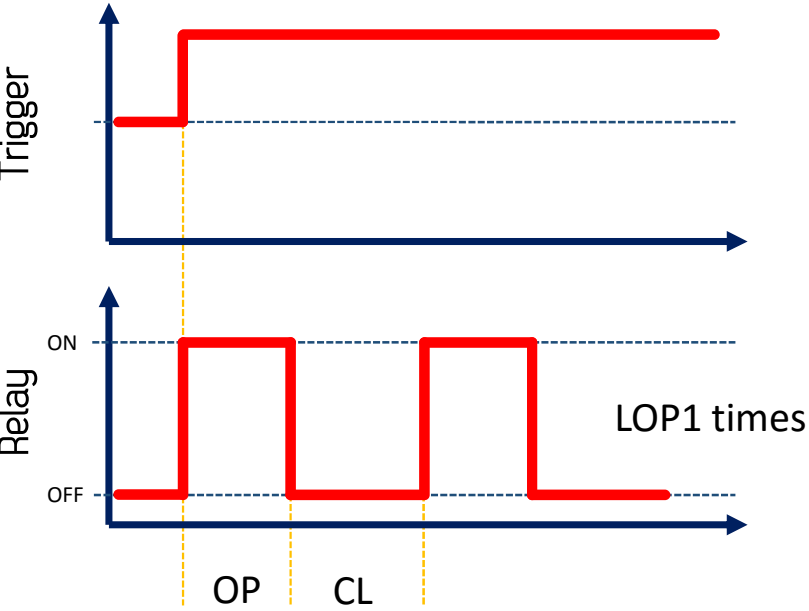
Loop of OP length on and CL length off cycles, starting with on. The on-off loop is repeated LOP times. The cycle starts when a trigger is received.

P5.1 – On-off cycles with trigger start



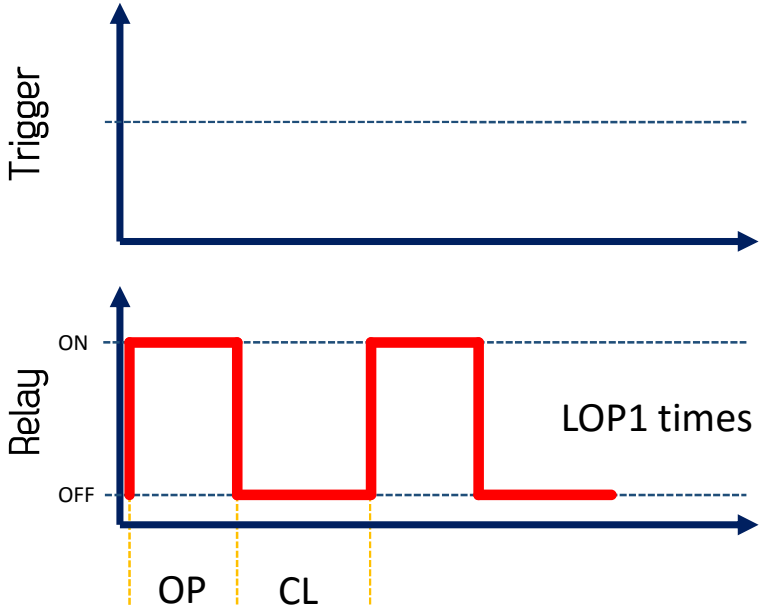
Loop of OP length on and CL length off cycles, starting with on. The on-off loop is repeated LOP times. The cycle starts when the trigger signal is received. The signal must stay held for the cycle to continue, otherwise it resets and the relay turns off. The trigger in this case is the enable signal for the on-off cycle.

P5.2 – On-off cycles with enable



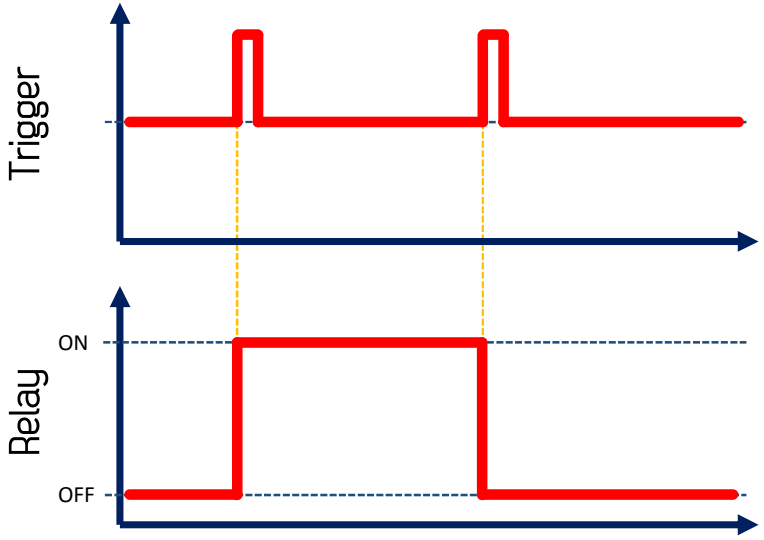
Loop of OP length on and CL length off cycles, starting with on. The on-off loop is repeated LOP times. The cycle starts when the device is powered on and nothing happens when completed. Trigger signal has no influence.

P5.3 – Auto On-off cycles



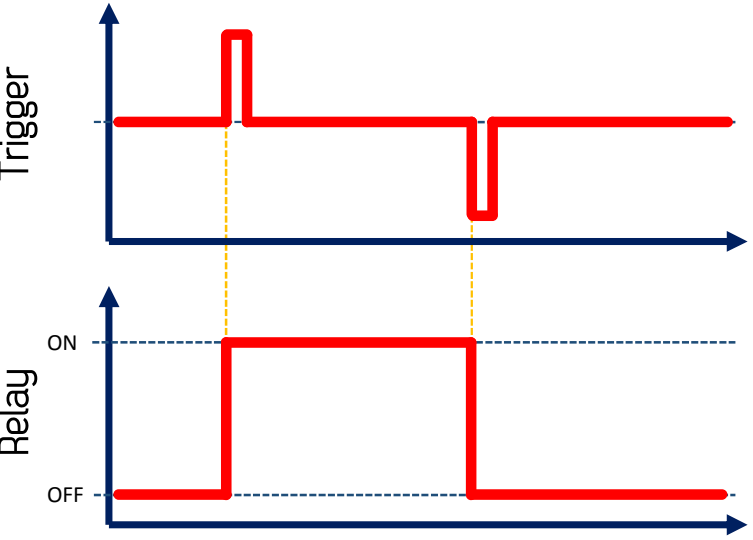
The trigger signal toggles the relay state. No timer used in this function.

P6.1 – Latch



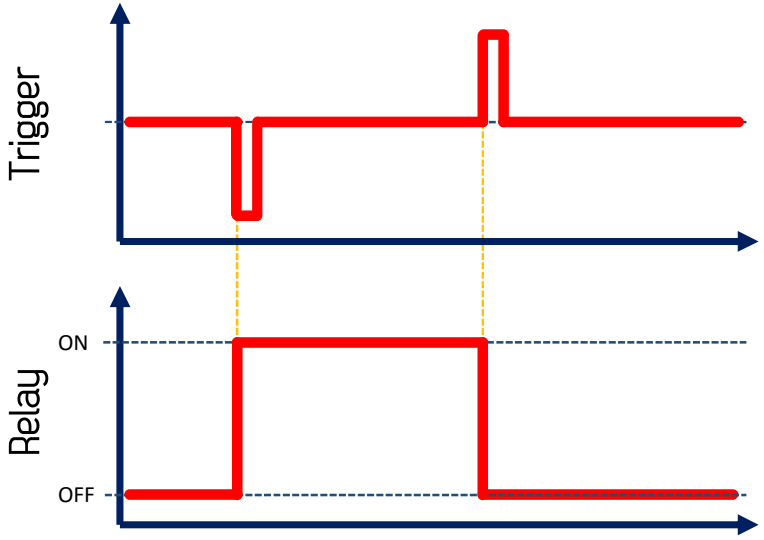
High trigger state turns the relay on, low trigger state turns the relay off. No timer used in this function.

P6.2 – High-low latch



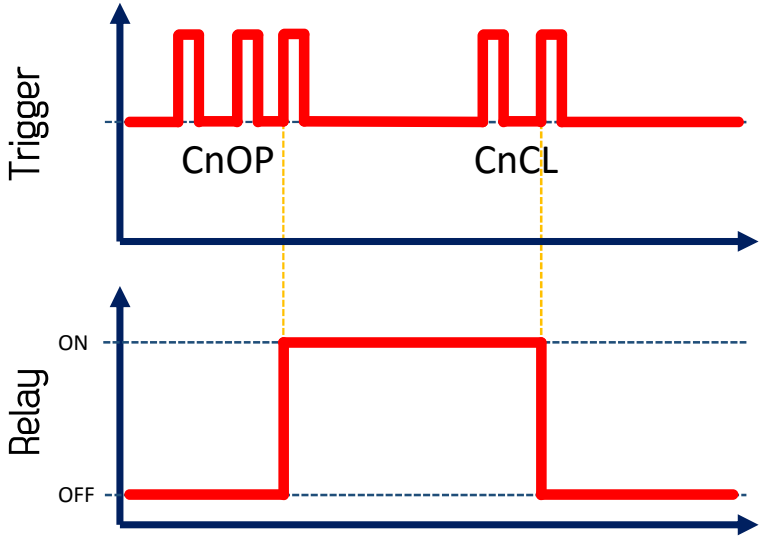
Low trigger state turns the relay on, high trigger state turns the relay off. No timer used in this function.

P6.3 – Low-high latch



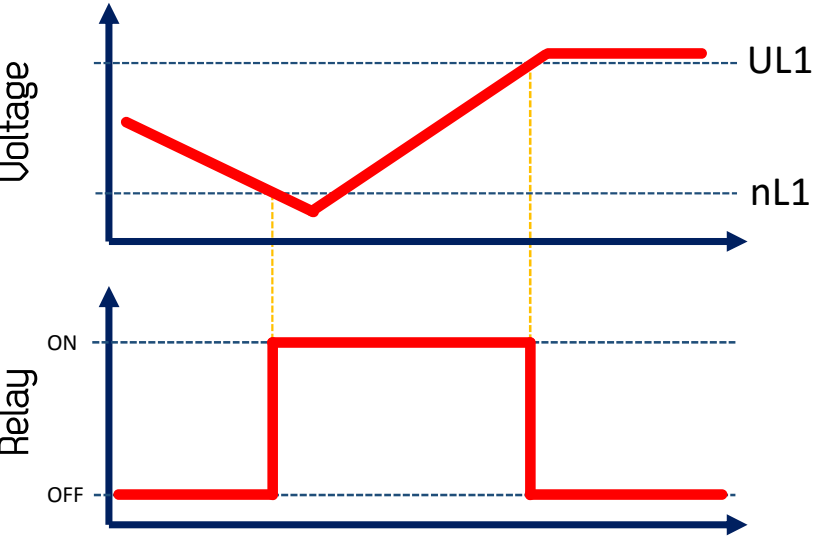
After CnOP trigger is received the relay turns on, and after CnCL triggers the relay turns off.

P7 – Counter latch

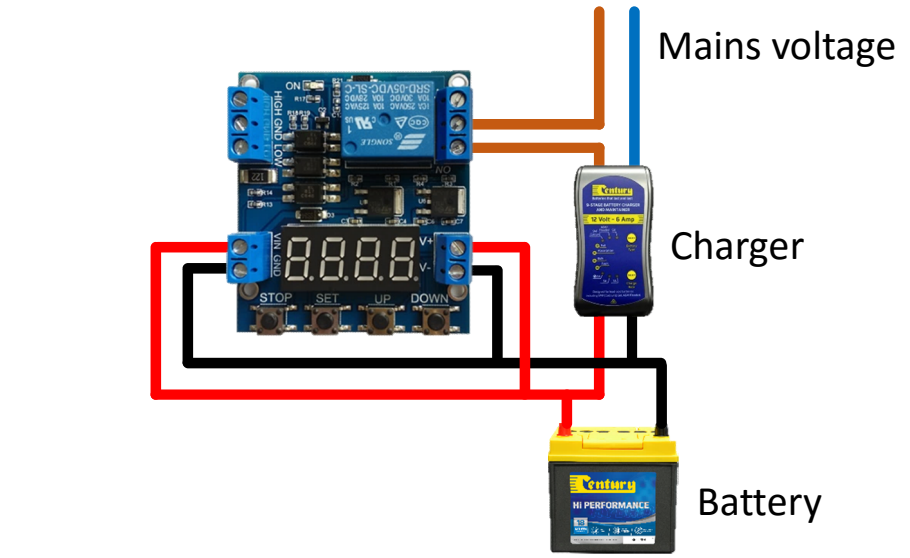
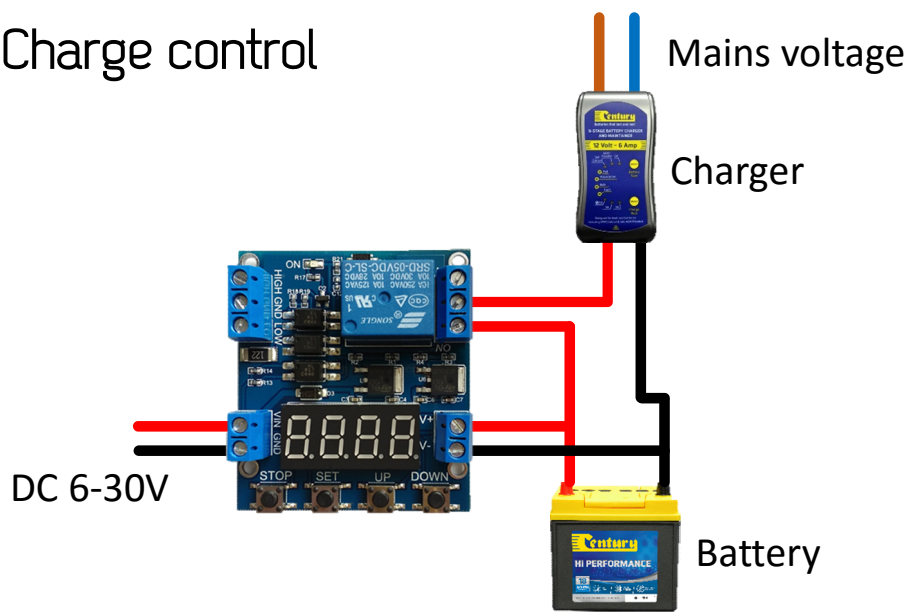


The relay turns on when the input voltage drops below $nL1$. The relay turns off when the input voltage rises above $UL1$.

U1 – Charger

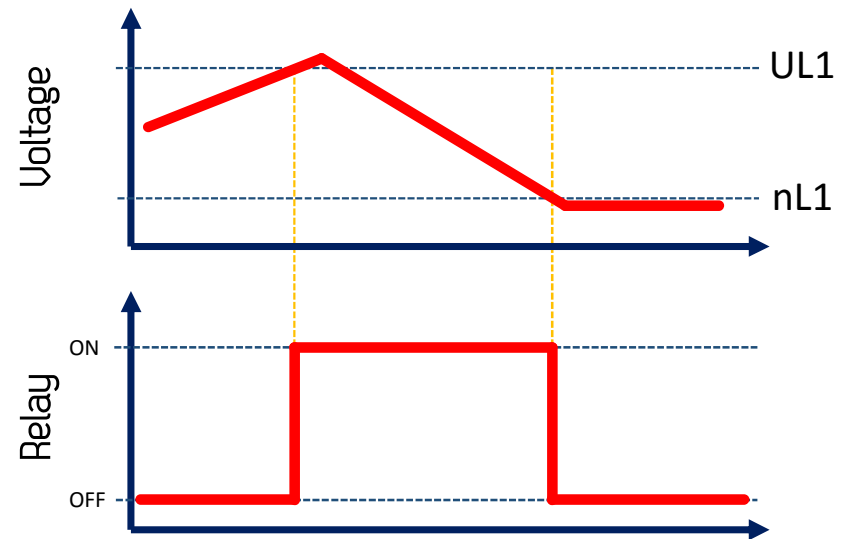


Charge control

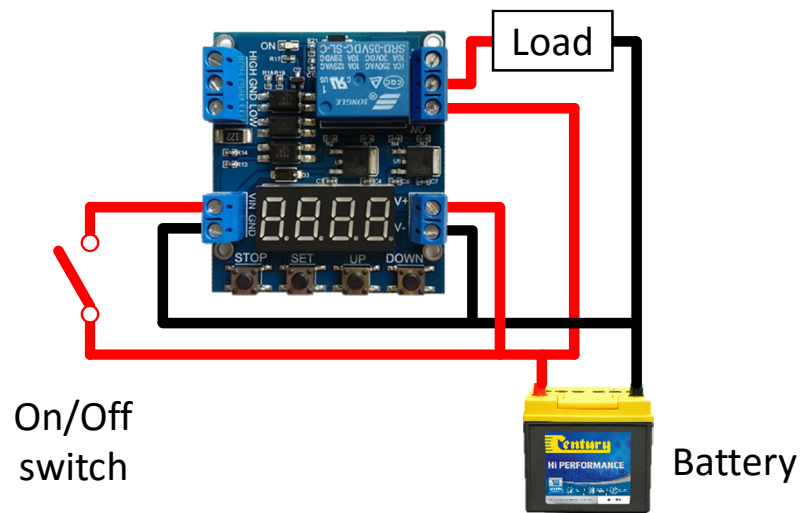


The relay turns on when the input voltage rises above $UL1$. The relay turns off when the input voltage drops below $nL1$.

U2 – Discharger

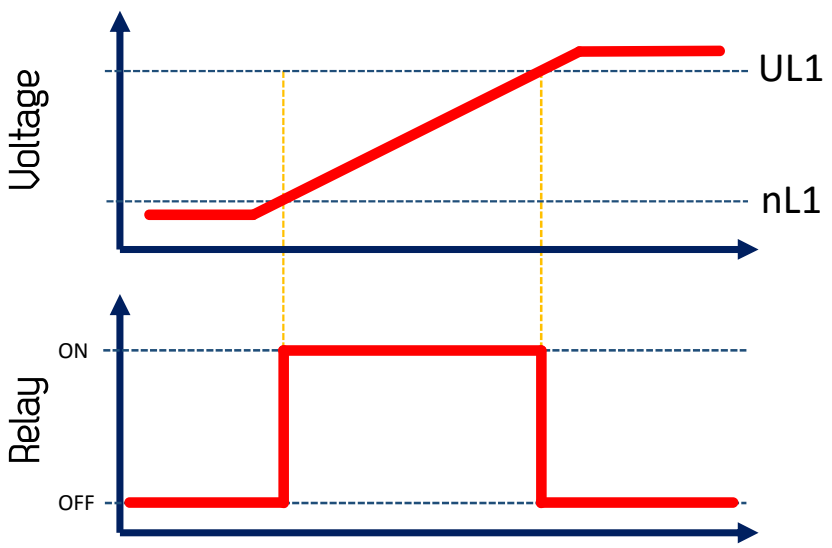


Discharge control



The relay is on when the input voltage is inside the UL1, nL1 range. Off when it is outside.

U3 – Inside voltage range



The relay is on when the input voltage is outside the UL1, nL1 range. Off when it is inside.

U4 – Outside voltage range

