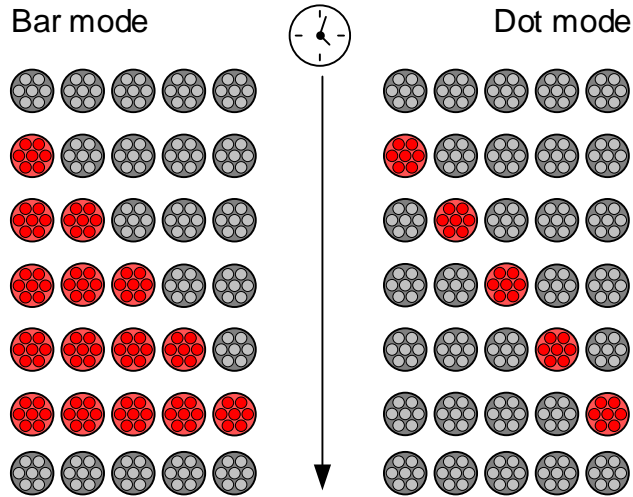
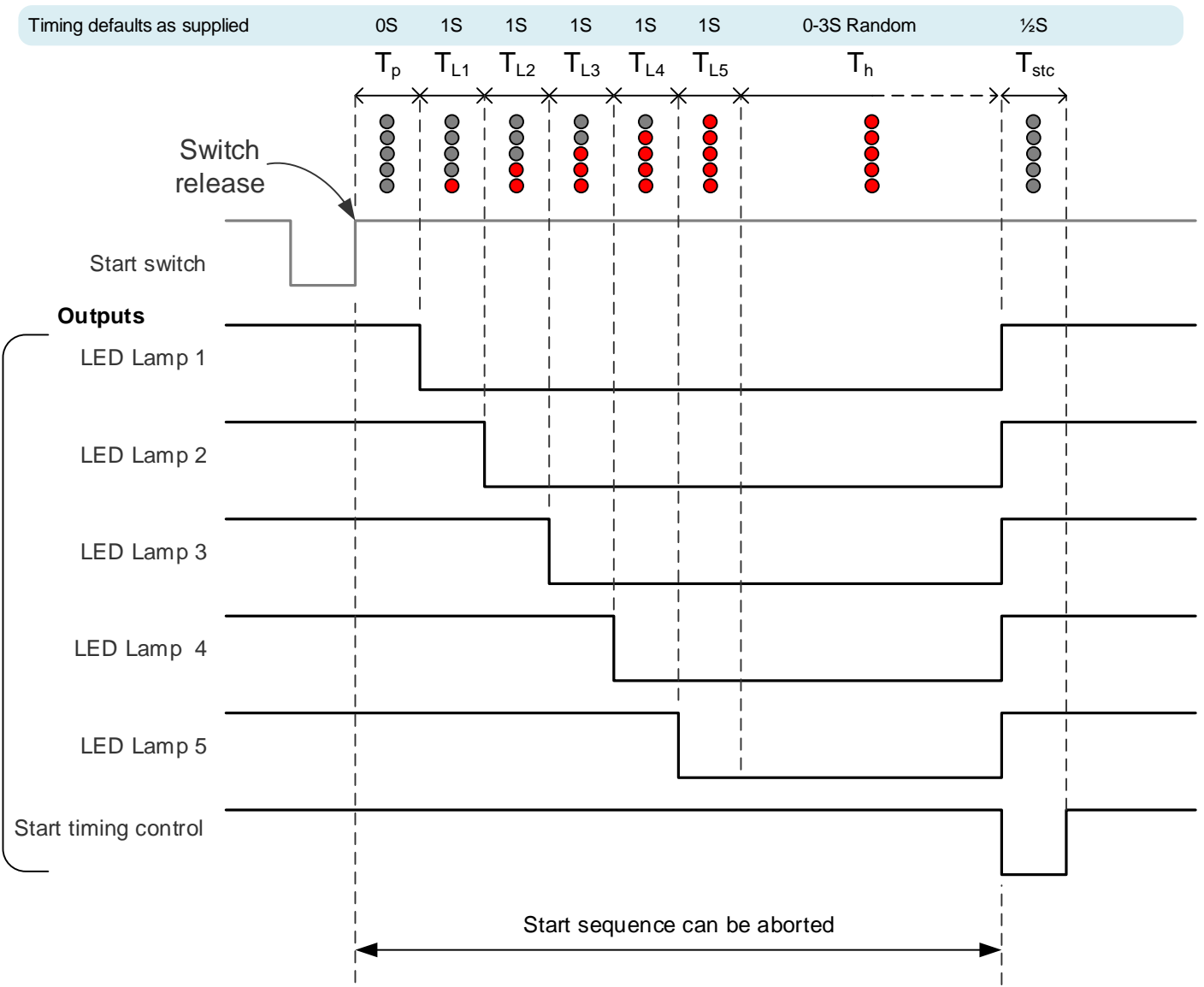


Grid Start Lights Controller

<http://picprojects.org.uk>



Timing diagram

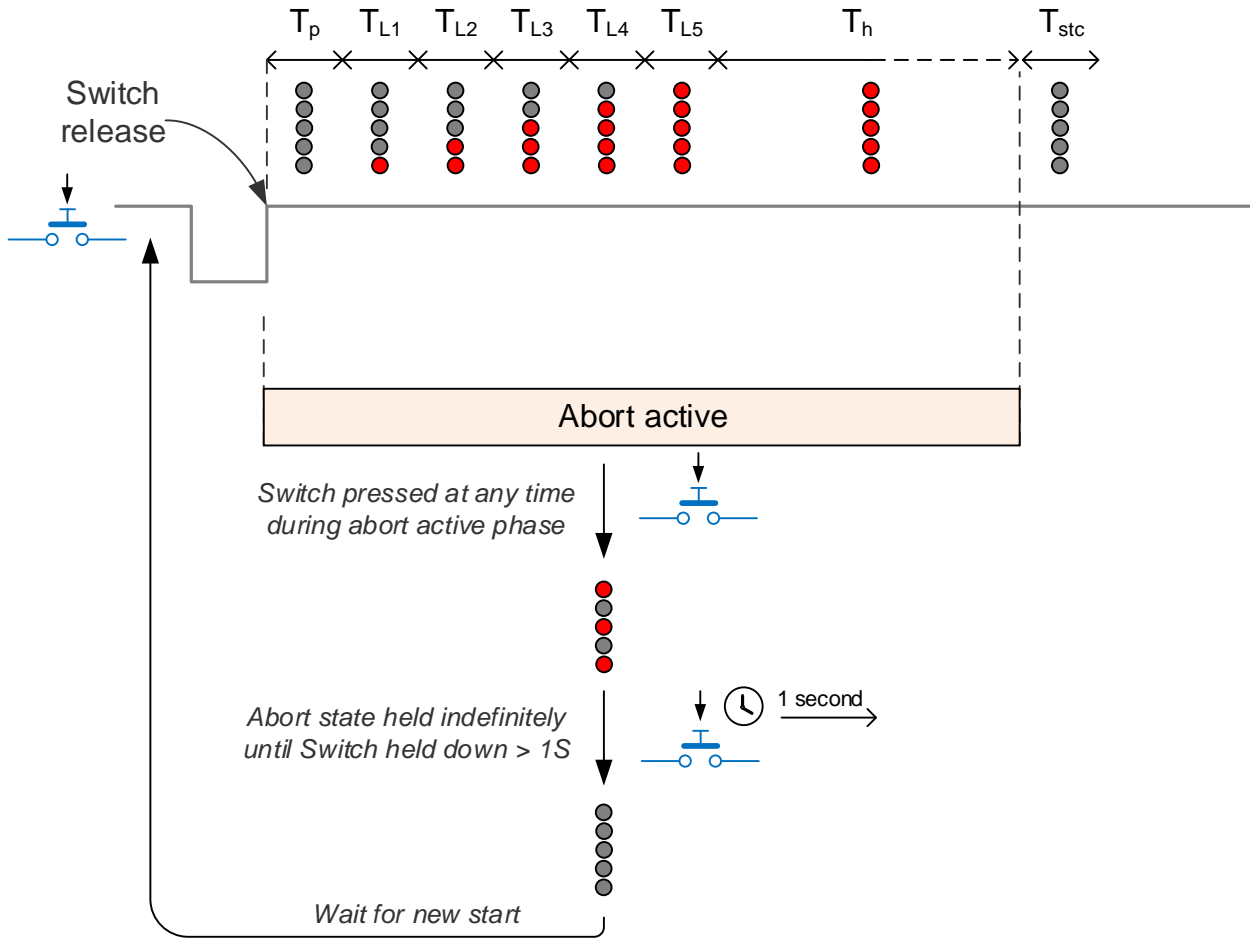


Timings shown are customisable from 0 to 25.5S in 100mS intervals
 T_h can be fixed or random delay

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Firmware Version 4 and later supports an 'abort start sequence' feature. When enabled, pressing the start button a second time during the start sequence will stop the sequence and display the aborted start light pattern.



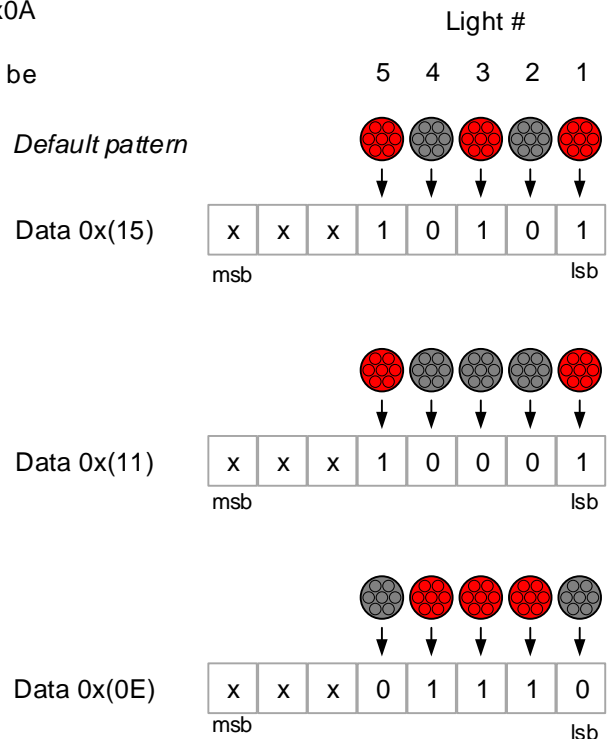
'Abort start' output light pattern

The abort light pattern is stored in the EEPROM at address 0x0A

The pattern of lights that is displayed for an 'aborted start' can be configured as shown in these examples.

A '1' in the bit pattern sets the corresponding light on.
A '0' in the bit pattern sets the corresponding light off

The three unused bits marked 'x' are ignored

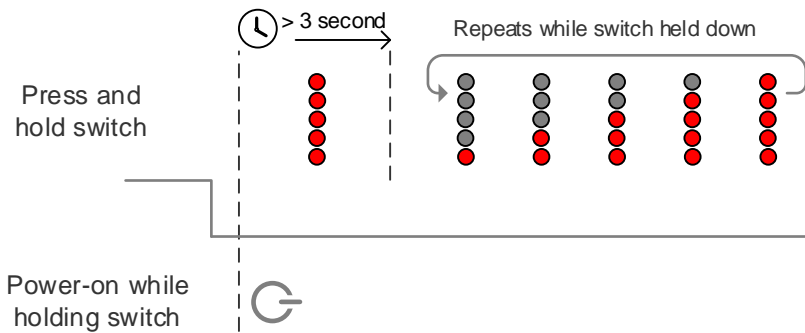


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Firmware Versions 5.2.4 and later allow user to select the 'end hold delay' (Th) value from one of five preset values.

- Press and hold the start switch (or S1 on the control PCB)
- While holding the switch down, power-on the control board.
- After ~3 seconds the five LEDs will sequence through the pattern shown below.
- When the number of LEDs lit corresponds to the hold time you require, release the start switch.
- The delay value is now saved and will be used for all future starts.
- If you select the wrong value, or need to change it again, just repeat the power on sequence to enter the setup mode again



- LED pattern and corresponding hold time are shown below.
- When the number of LEDs lit corresponds to the hold time you require, release the start switch.

