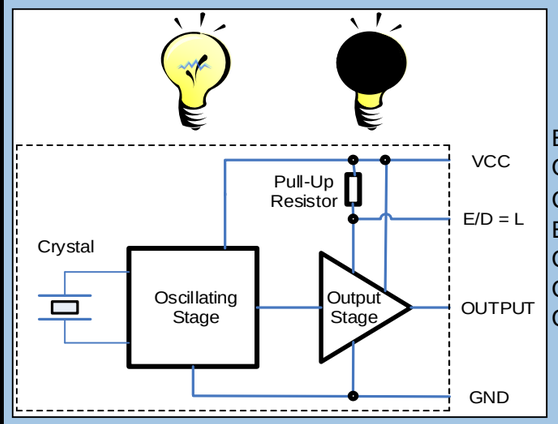
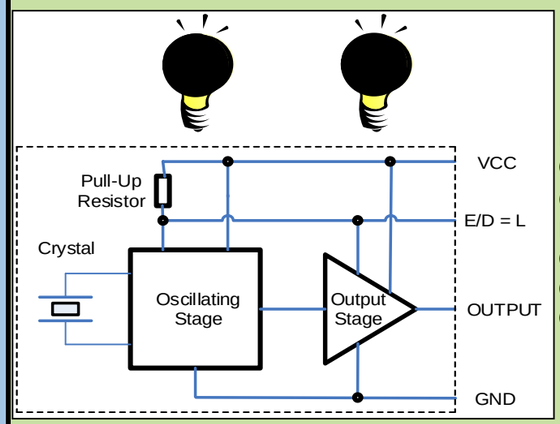
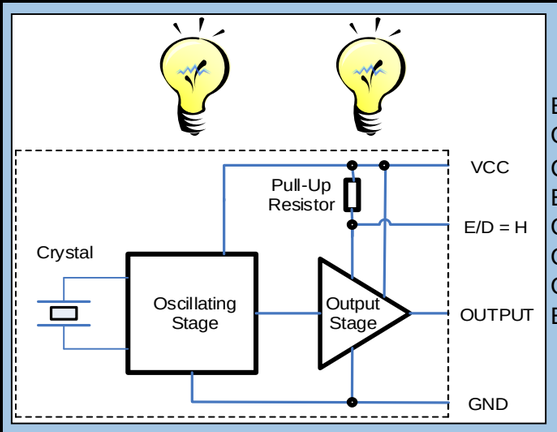
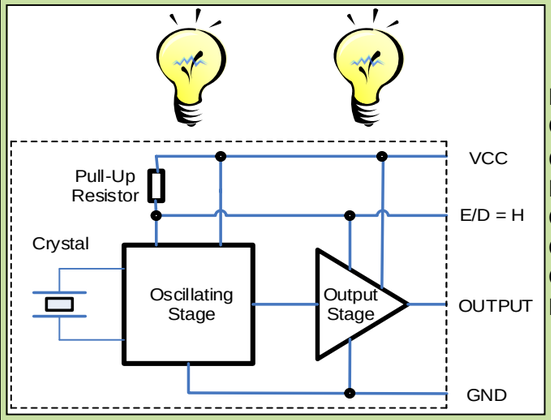
# Difference of Standby Modes in Jauch JO75 5.0V & 3.3V Oscillators

| Short Description | "TRI = Tristate only" | "STP = Stop with Tristate" |
|---|---|---|
| **Explanation** | during standby:<br>oscillating stage operates & output has Tristate* function | during standby:<br>oscillating stage stops & output has Tristate* function |
| **Standby function "Disabled" signal output disabled** |  <br>Example values:<br>Oscillator Power, $V_{DD}$ = 5.0V or 3.3V<br>Current Consumption = reduced (3mA)<br>E/D = 0V (Logic Low)<br>Output = no signal, high impedance<br>Oscillation Circuit = fully enabled<br>Output Circuit = disabled |  <br>Example values:<br>Oscillator Power, $V_{DD}$ = 5.0V or 3.3V<br>Current Consumption = almost Zero (some µA)<br>E/D = 0V (Logic Low)<br>Output = no signal, high impedance<br>Oscillation Circuit = disabled<br>Output Circuit = disabled |
| **Standby function "Enabled" signal output active** |  <br>Example values:<br>Oscillator Power, $V_{DD}$ = 5.0V or 3.3V<br>Current Consumption = 10 mA<br>E/D = H (Logic High or Open)<br>Output = active (clock signal)<br>Oscillation Circuit = fully enabled<br>Output Circuit = enabled<br>Enable Time <= 250nsec. |  <br>Example Values:<br>Oscillator Power, $V_{DD}$ = 5.0V or 3.3V<br>Current Consumption = 10 mA<br>E/D = H (Logic High or Open)<br>Output = active (clock signal)<br>Oscillation Circuit = fully enabled<br>Output Circuit = enabled<br>Enable Time = 0.2...10msec. |
| **Application** | output multiplexed applications, <u>fast</u> reaction of output<br>reduced power consumption when disabled | battery powered applications, power consumption <u>very low when disabled</u>,<br><u>slower</u> reaction of output when re-enabled |

*Tristate Tristate means that the output can have 3 states: High or Low when enabled / High Impedance if disabled

Note 1: If the E/D Pin is not connected, the oscillator is continuously operating as soon as a supply voltage is available

Note 2: The STOP Function is Jauch standard for all oscillators belonging to JO53, JO32, JO22 and JO21 series