Description

This window comparator circuit has 4 limits, 2 lower limits and 2 upper limits, which can produce up to 4 separate outputs, each dedicated to a warning, an alarm or a control condition. These outputs can be tied together to produce any number of desired responses, with output drivers built-in, depending on the responses required when the input level crosses each input limit. For example, \( V_{L1} \) and \( V_{H1} \) can be tied together to produce a single wired-OR output whenever the input signal exceeds either \( V_{L1} \) (below) or \( V_{H1} \) (above) limits. This type of output signal is typically used as a warning signal. \( V_{L2} \) and \( V_{H2} \) can also be connected to produce a second output signal, which can be used, for example, as a "system shutdown" type of control signal whenever \( V_{L2} \) or \( V_{H2} \) has been exceeded. Note that this circuit works with either open-drain or push-pull types of comparator output.

For full schematic diagram and notes, please register and login at aldinc.com