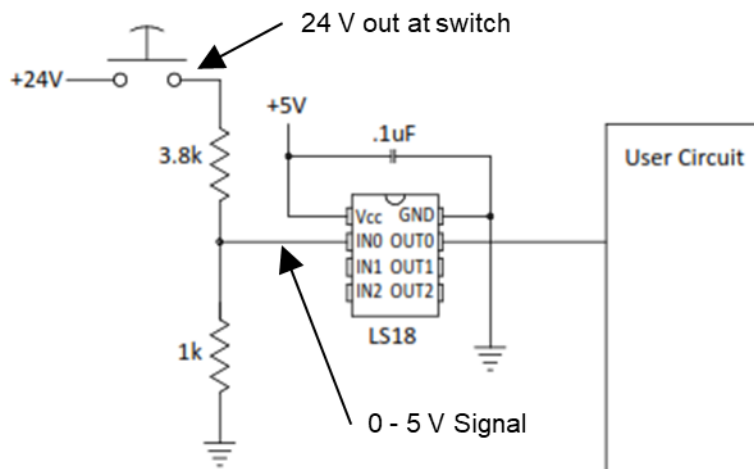


Debounce High Voltage Inputs with LogiSwitch NoBounce ICs

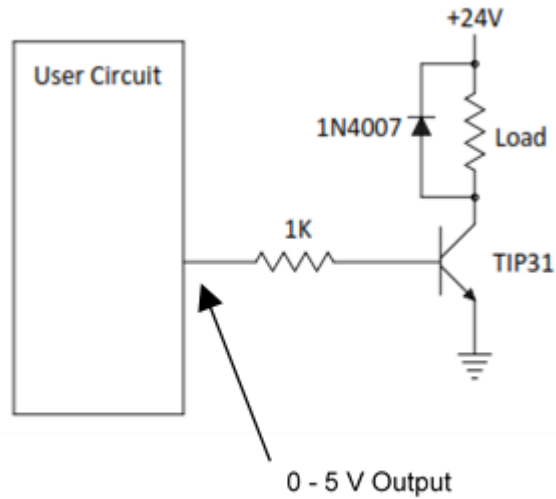
Often, in noisy industrial environments, higher voltages are used to reduce signal noise. This is achieved with simple level shifting techniques. As shown below, a simple resistor divider can be used to convert a 24 V signal to a 5 V signal used by LogiSwitch NoBounce™ ICs.



Level Shift from 24 V to 5 V

For applications where switch is physically away from the control circuit – Use a 24V supply and place the resistors and debouncer chip close to the user circuit. This circuit enables the use of a low impedance 24V signal in a 5 V digital control circuit.

Conversely, if the control logic needs to communicate back to the high voltage logic, simple level shifting techniques can also be employed as shown in the following diagram.



Level Shift from 5 V to 24 V