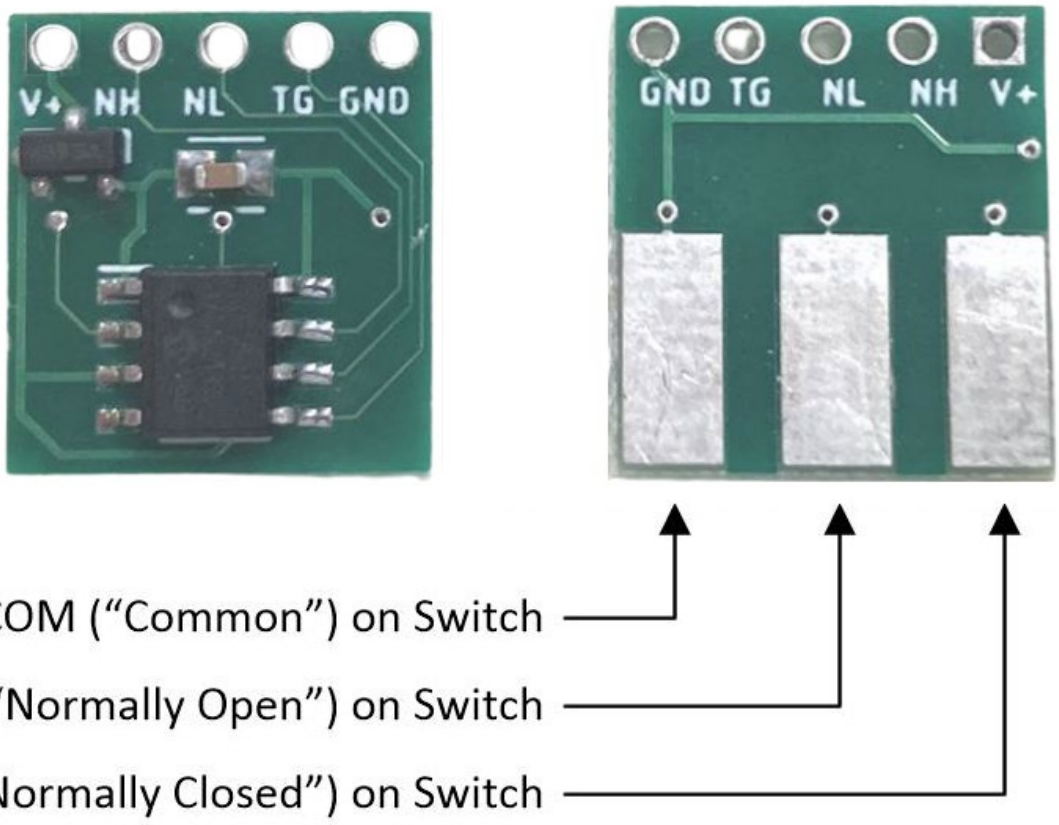
LS401 NoBounce™ Switch Board Users Guide



When the switch is in its inactive (non-pushed) state. The NH (Normally High) output is logic 1 and the NL/HS (Normally Low/Handshake) output is logic 0. Furthermore, the TG (Toggle) output powers up logic 1.

When the button is pressed (goes active):

• The NH output goes to logic 0.

• The NL/HS output goes to logic 1.

• The TG output toggles to its other logic level.

When the button is released (goes inactive):

• The NH output returns to logic 1.

• The NL/HS output returns to logic 0.

Re the NL/HS output. In your microprocessor code, you typically loop around waiting for the switch to be pressed. When it is pressed, you do whatever you want to do, plus you need to set a flag saying you've handled things and now you are waiting for the switch to be released again.

As an alternative, if you are using our NH/HS signal, when this goes high and you've done whatever you want to do, if you wish, you can change your MCU input to an output, pull this pin low for 5µS, and then change the pin back to an input again. Our LogiSwitch chip will see that you are pulling the NL/HS pin low and it will take over pulling it low itself. This signal will then stay low until the switch is released and pressed again, thereby saving you from having to maintain a flag in your code.

Note: You don't need to use any pull-up resistors – everything is handled by our chip board.