


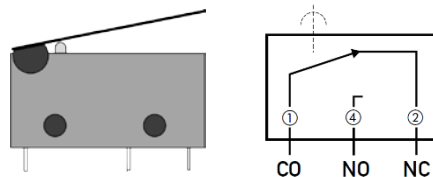
## SWITCH OR BUTTON

Required knowledge Switch, Ohm's Law, Voltage Divider, Input Impedance

	<h3>Ohms Law, Switch , Pushbutton</h3>
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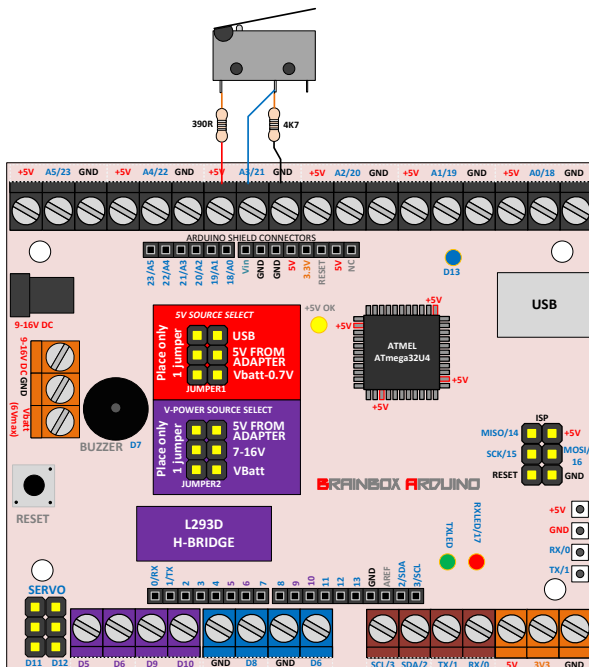
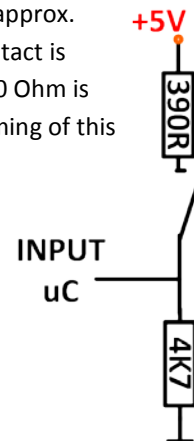
Switch	Farnell: 7771622 or own choice
2 Resistors	4K7 - 390R

1. Read the datasheet and/or use your multimeter to measure how the internal contact(s) of your switch are connected to the pins of the switch.



2. For safety purposes it is best to connect switches or buttons with these two resistors. When the switch is closed, the uC pin will measure approx. 4.7V and a digital input pin will read this as a '1' or 'high' signal. When the switch contact is not closed, the microcontroller will read this as a '0' or 'low' signal. The resistor of 390 Ohm is only there to protect the pin of the microcontroller against the accidentally programming of this pin as an output pin.

3. Connect the switch or button to one of the digital IO pins.



## CODE EXAMPLE: 'I-DIG'