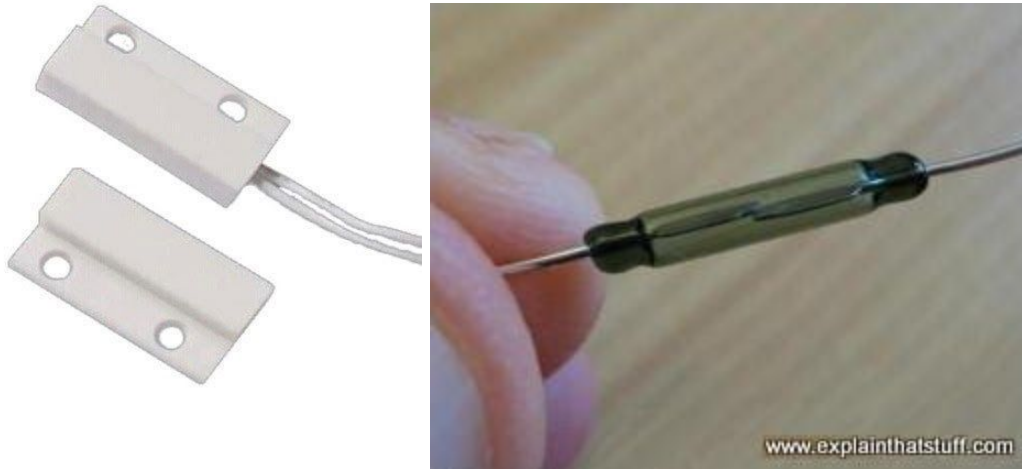


Magnetic Reed Switch



We'll be using magnetic contact reed switches as door sensors. It consists of two cases (as shown in the first image); one containing a magnet which is fitted on the door lid and the other containing two wires connected by a reed switch.

One of the wires is connected to Vcc of 5V and the other is connected to the input port of the microprocessor.

When the door is open, the reed switch is open and hence, the input to the microprocessor is 0 as shown in the circuit below. When the door is shut, the magnetic part comes in contact with the reed switch part and the switch closes due to the applied magnetic field giving a high input to the microprocessor.