Tutorial NodeMCU V2: The Ultrasonic Sensor

1. Distance Measurement Using Ultrasonic Sensor – Reading from Digital Input

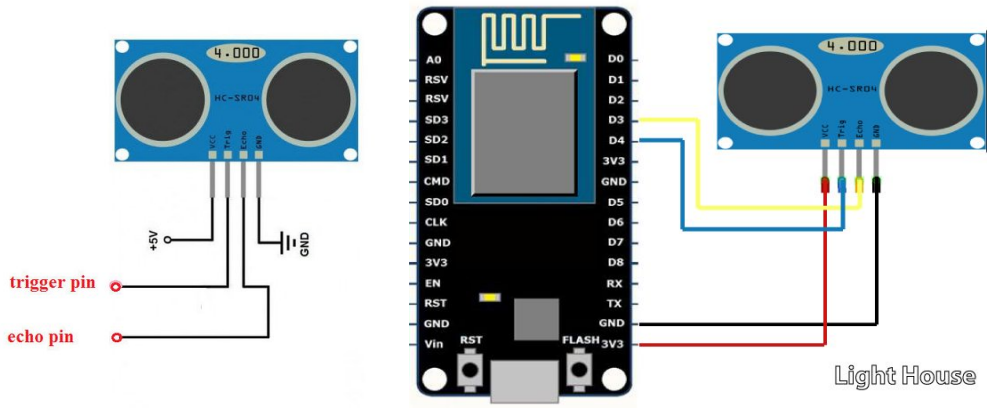

Figure 1.5: HC-SR04 – Ultrasonic Sensor

a. SPECIFICATION of HC-SR04

1. Power supply : 5v DC
2. Ranging distance : 2cm – 500 cm
3. Ultrasonic Frequency : 40k Hz

b. The circuit connections are made as follows:

The HC-SR04 sensor attach to the Breadboard
The sensor Vcc is connected to the NodeMCU +3.3v
The sensor GND is connected to the NodeMCU GND
The sensor Trigger Pin is connected to the NodeMCU Digital I/O **D4**
The sensor Echo Pin is connected to the NodeMCU Digital I/O **D3**

2. The sketch of Ultrasonic Sensor and NodeMCU.