

Digital Distance Sensor (Min. 40 cm Range)

Model: JS40F



Description:

Specially designed digital distance sensor for mini sumo robots and small robot projects. It can detect objects from 40 cm (based on detecting area it can be up to 80cm!) Dimensions are very similar to popular Sharp GP340 distance sensor, moreover JS40F doesn't need any extra resistor, capacitor or board...

Features:

- Works between 3.3V to 5V. At 5V sensor draws 15mA.
- Has a reverse polarity protection between voltage inputs (Power & GND).
- No manual setting for distance decrease.
- At backside, it has red led for detection status.
- Comes with 15cm stranded wire.

Dimensions & Weight:

- 17.7mm Length x 11.5mm Width x 12.6mm Height
- Only 4 grams weight. (Including cables)

Cable Definitions:

They are same as industrial connection standards:

- Brown: 5V
- Blue: GND
- Black: Signal Out

Which Projects are Suitable for?

- Mini Sumo Robots (We suggest strongly!)
- Maze Robots
- Obstacle Avoiding Robots

Example Arduino Sketch:

```
int Sensor1=5; // Digital sensor connected to D5
int value; // We define variable for storing sensor output.

void setup() {
```

```
pinMode(Sensor1, INPUT); // Sensor1 is declared as input

Serial.begin(9600); // Serial communication started with 9600 bits per second.

}

void loop() {

value=digitalRead(Sensor1); // Sensor is read digitally and reflected to value.

Serial.print("Sensor Output: "); //IT will write Sensor Output to Serial Monitor Screen.

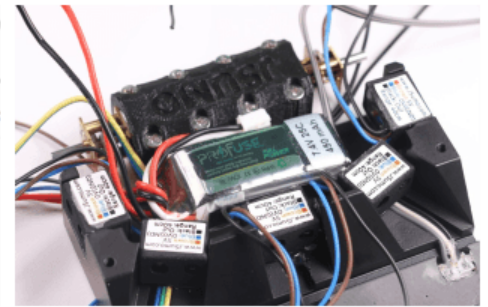
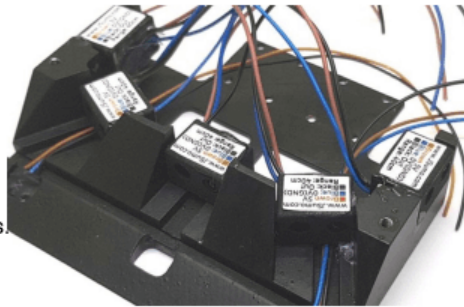
Serial.println(value); // It will write value variable raw value (0 or 1)

delay(100); // We added 100ms Delay for more balanced readings.

}
```

JS40F Highlights

Small: 17.7mm Length x 11.5mm Width
 Light: 4 Grams
 Reverse Voltage input protect!
 Digital & no need to Pull-up.
 Works at 5V, gives Logic 1 (5V) when it sees
 Long Range & wide beam (not narrow!)



More Detailed Photos:

