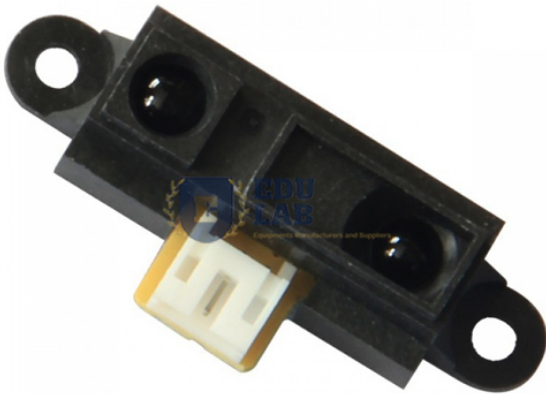**Product Code . EL-TWL-11818**

Distance Sensor

Description

Distance Sensor

Description:-

Distance Sensor is a popular choice for many projects that require accurate distance measurements.

The three connections from left to right are power, ground, and the output signal.

A plot of distance versus output voltage is shown below.

It provides much better performance than other IR alternatives.

The output can be connected to a comparator for threshold detection.

It is also simple to solder three wires to the sensor where the connector pins are mounted.

Interfacing to most microcontrollers is straight forward.

This IR sensor is more economical than sonar rangefinder.

The single analog output can be connected to an analog-to-digital converter for taking distance measurements.

The detection range of this version is approximately 10 cm to 80 cm (4" to 32").

Specification:-

Distance measuring range: 10 cm to 80 cm (4" to 32")

Output type: analog voltage

Output voltage differential over distance range: 1.9 V

Operating voltage: 4.5 V to 5.5 V

Average current consumption: 30 mA

Weight: 3.5 g (0.12 oz)

Response time: 38 ± 10 ms

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