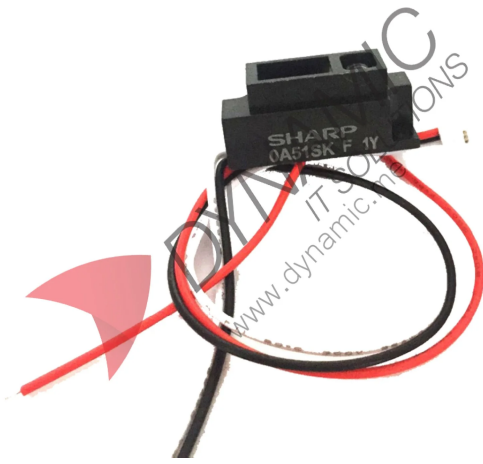


# Sharp IR Distance Sensor 2-15cm + Cable (GP2Y0A51SK0F)



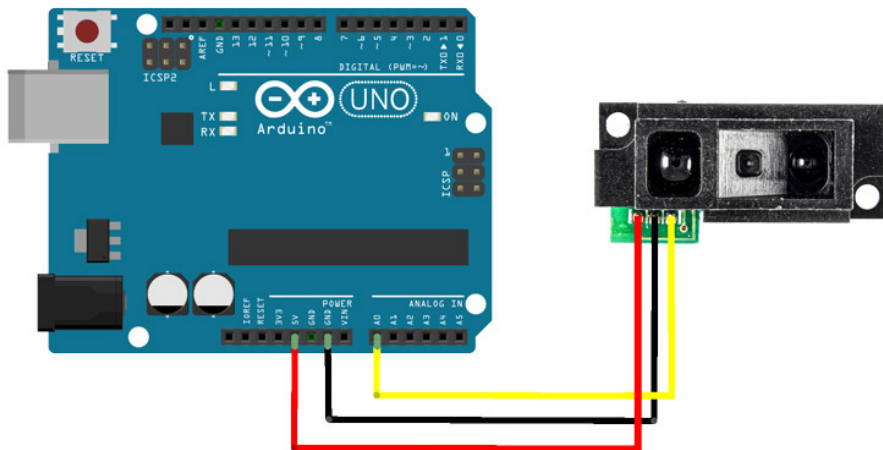
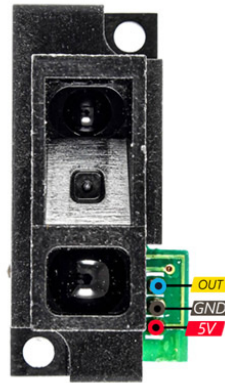
## **Features:**

The GP2Y0A51SK0F is a compact distance measuring sensor that utilizes triangulation technology. It integrates a position-sensitive detector (PSD), an infrared LED, and signal processing circuitry to deliver analog voltage proportional to distance. It is immune to ambient temperature or object reflectivity, making it highly stable and accurate in short-range detection.

Specifications	
Model	GP2Y0A51SK0F
Sensing Range	2–15 cm
Output Type	Analog voltage
Supply Voltage	4.5 V – 5.5 V
Current Consumption	~10 mA (typical)
Measuring Cycle	16.5 ms
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-40 °C to +70 °C
Sensor Dimensions	27.0 mm × 10.8 mm × 12.0 mm
Use Cases	Short-range obstacle detection, gesture sensors, robot proximity sensing

## **Pinouts:**

Pin Name	Type	Description
VCC	Power Input	Supply voltage input (4.5–5.5 V)
GND	Power Ground	Common ground
OUT	Analog Output	Distance-proportional analog voltage output



**Product Pictures:**

