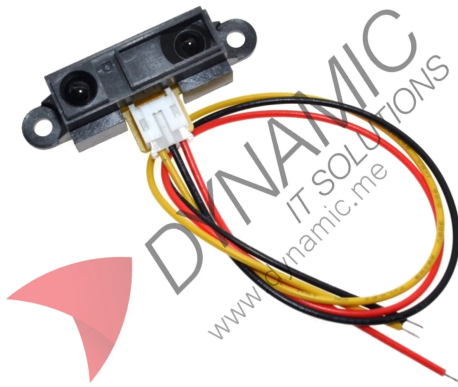


Sharp IR Distance Sensor 10-80cm + Cable (GP2Y0A21YK0F)



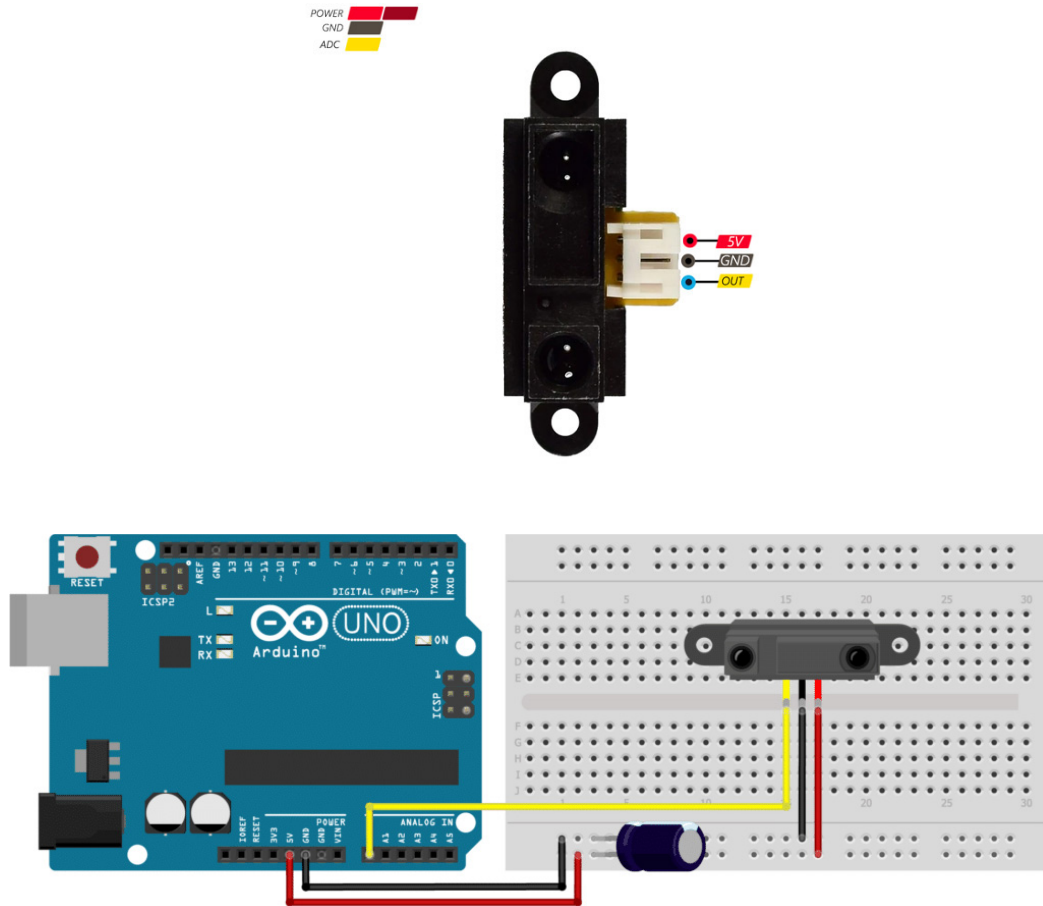
Features:

The GP2Y0A21YK0F is an analog IR distance measuring sensor that uses triangulation and a position-sensitive detector (PSD) to accurately measure distances from 10 to 80 cm. It combines an infrared emitter, a detector, and signal processing circuitry in a compact module. Output voltage varies inversely with distance, making it easy to integrate into analog-reading microcontrollers for proximity detection or continuous distance sensing. The sensor is unaffected by object reflectivity, temperature variation, or ambient conditions.

Specifications	
Model	GP2Y0A21YK0F
Sensing Range	10–80 cm
Output Type	Analog voltage
Supply Voltage	4.5 V – 5.5 V
Average Current Consumption	30 mA (typ), 40 mA (max)
Output Voltage at 80 cm	0.25 – 0.55 V (typ: 0.4 V)
Voltage Differential (10–80 cm)	1.65 – 2.15 V (typ: 1.9 V)
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-40 °C to +70 °C
Sensor Dimensions	29.5 mm × 13 mm × 13.5 mm
Use Cases	Touchless switches, robot navigation, vending machine sensors, energy-saving triggers, arcade games

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:

