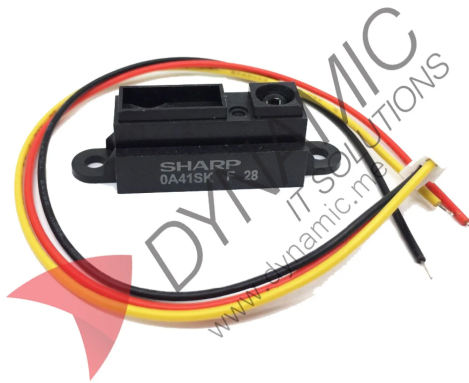


Sharp IR Distance Sensor 4-30cm + Cable (GP2Y0A41SK0F)



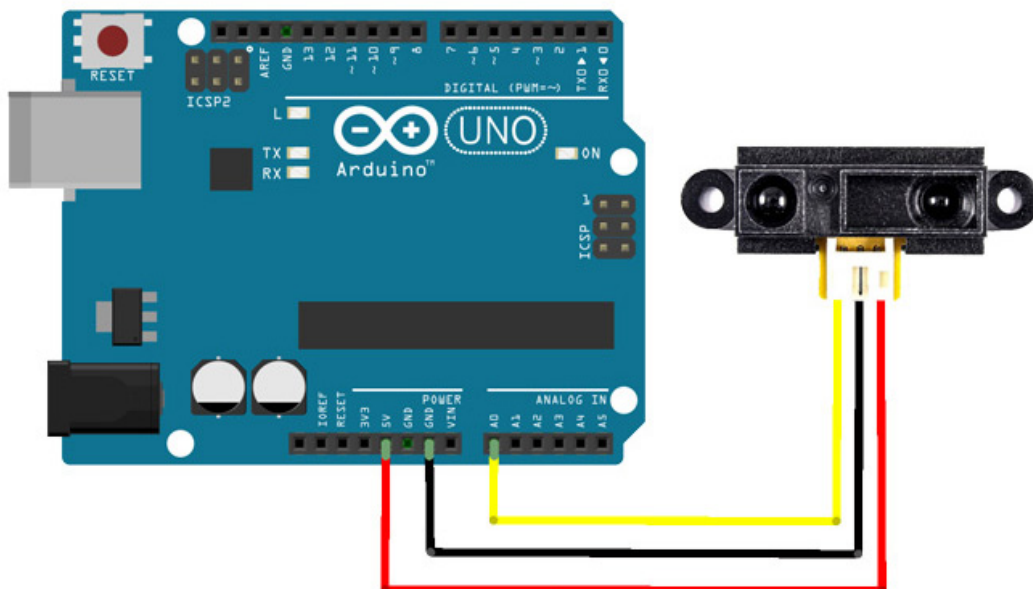
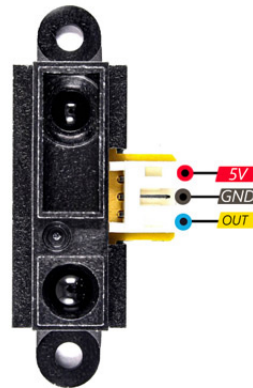
Feature

The GP2Y0A41SK0F sensor is a compact distance measuring unit combining a PSD, IR emitter, and processing circuitry. It uses triangulation to accurately detect distances between 4 and 30 cm, largely unaffected by reflectivity, ambient temperature, or object color. Ideal for personal robotics and sanitation systems.

Specifications	
Model	GP2Y0A41SK0F
Sensing Range	4–30 cm
Output Type	Analog voltage
Supply Voltage	4.5 V – 5.5 V
Current Consumption	Not specified (typical of Sharp IR sensors ~30 mA)
Measuring Cycle Time	16.5 ms
Sensor Dimensions	29.5 mm × 13.0 mm × 13.5 mm
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-40 °C to +70 °C
Absolute Max Ratings	-0.3 to +7 V (VCC), -0.3 to VCC+0.3 V (VO)
Use Cases	Robot navigation, cleaning robots, proximity detection in smart bathrooms, personal robotics

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:

