

Dirt/Dust sensor GP2Y1010AU0F

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Japan's dust sensor GP2Y1010AU0F, Sharp PM2.5 air quality detection sensor
Dust sensor GP2Y1010AU introduction:

It can detect particles above 0.8 microns, sense smoke and pollen tobacco produces, sense house dust, etc. It's small in size, light in weight and easy to install.

Main parameters:

- 1) GP2Y1010AU dust sensor
- 2) sensitivity: 0.5 V/(0.1 mg/m³)
- 3) output voltage (no dust) : 0.9 V (TYP)
- 4) current consumption: 11mA

Typical applications:

used in products such as air cleaner, ventilation of air conditioner, air conditioning fan, etc.

GP2Y1010AU0F is an optical air quality sensor, designed to sense dust particles in the air. Its inside is equipped with infrared LED and phototransistor, allowing it to detect reflected light of the dust in the air, even small particles such as tobacco smoke. It's usually used in air purification systems.

The sensor has very low current consumption (maximum 20mA, typical value 11mA), can use 7V DC. The sensor outputs analog voltage whose value is proportional to dust concentration.