



GP2Y1040AU0F

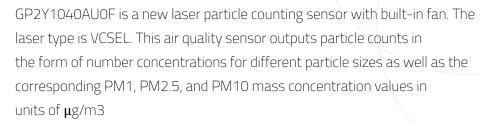
Application

Air quality Monitoring /IoT sensor devices



Small size/ High accuracy(±10%) / UART and I2C interface.

Introduction



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Specifications (T=25°C)

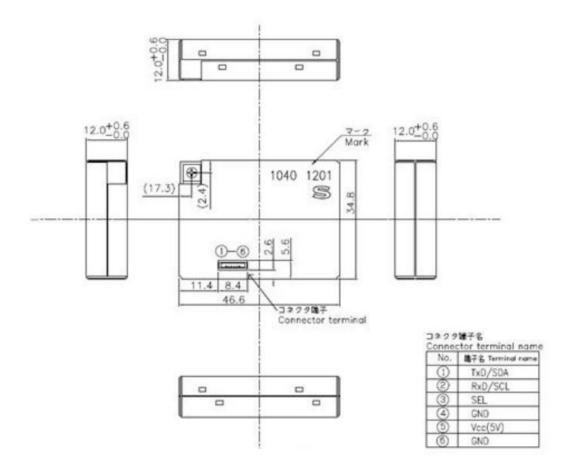
Items	Symbols	
Supply Voltage	Vo	-0.3~6V
Operating Voltage	Vo	5V
Active Current	lcc	50mA
Sleep Current	I_sleep	35 μ A
Operating Temperature	То	-10°C ~ +60°C
Storage Temperature	Ts	-20°C ~ +80°C
Input high level voltage	V_IH	>2.31V
Input low level voltage	V_IL	<0.99V
Output high level voltage	V_OH	>2.7V
Output low level voltage	V_OL	<0.4V
Response time		<8s
Sampling interval		1s
Particle size range		$0.3 - 10.0 \mu\mathrm{m}$



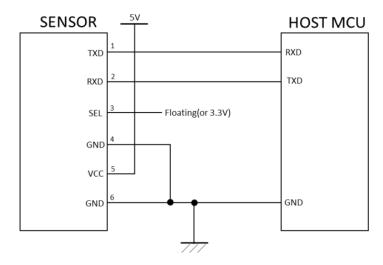


Dust Sensor Series

Outline Dimensions



Connection Circuit



Note: To select the UART interface, please set the SEL terminal (pin3) to floating (or 3.3V). If the RXD terminal of the sensor is not used, leave the RXD terminal (pin 2) floating.





Dust Sensor Series

No.	PIN Name	Description	Remarks
1 SDA	TXD	UART : Transmitting Pin	
	SDA	I2C : Serial data	3.3V Logic
2	RXD	UART : Receiving Pin	
	SCL	I2C : Serial clock	3.3V Logic
3	SEL	Interface select	UART: Floating or 3.3V, I2C: Low level (=GND)
4	GND	Ground	_
5	Vcc	Supply Voltage	5V±10%
6	GND	Ground	_