

MATRIX Grayscale Sensor V2 MS-003 V2

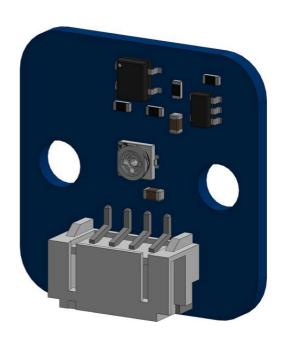
1. Feature

Important Notice: Grayscale Sensor V2 and V3 are **100% compatible** in hardware and software.

- · Wide voltage range from 3.3V to 5V.
- · On-board super small integrated infrared sensor .
- Additional comparator digital output adjust by on-board screw.

2. Application

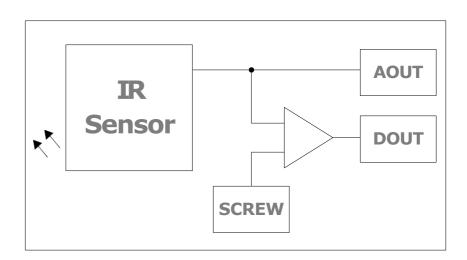
- · Tracking car
- · Distance detector
- · Grayscale sensing



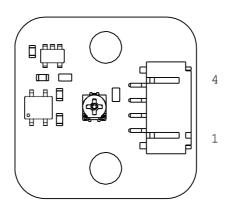
3. Introduction

Matrix Grayscale Sesnor measures the intensity of light from black to white with both digital and analog output.

4. Block Diagram



5. Pinout



Pinout								
NO.	Name	I/O	Description					
1	AOUT	0	Grayscale analog output, output close to VCC while the grayscale level goes to low.					
2	DOUT	0	Grayscale digital output, threshold dependence on on-board screw.					
3	VCC	I	Supply voltage.					
4	GND	-	Supply ground.					

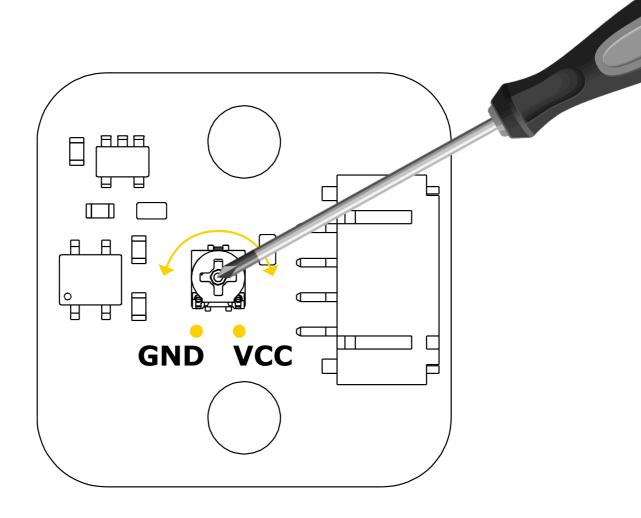
6. Electrical Characteristics

Parameter	Min	Тур	Max	Units
Supply Voltage (VCC)	3	3.3	5	V
Detection range	-	-	50	mm
IR wavelength	-	940	5	nm
Analog output impedance	-	330	-	ΚΩ
Digital output impedance	-	10	-	ΚΩ

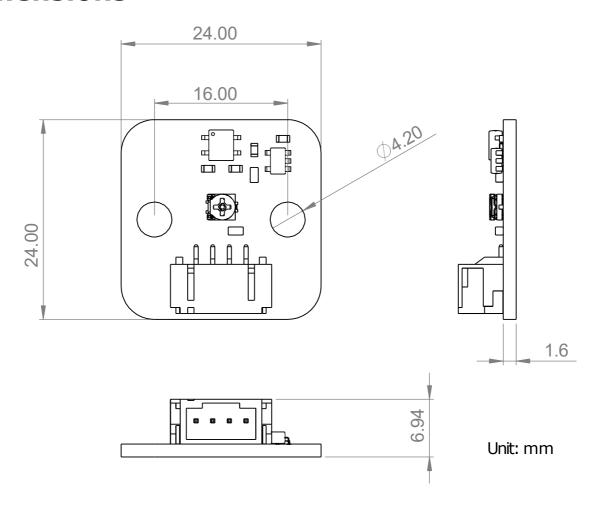
7. Usage

AOUT is the IR sensor analog output, the voltage follows IR LED reflection intensity. DOUT only has 0 or 1 state, the changing spot defined by onboard screw.

Turn the screw clockwise to bring the gate close to VCC, and turn it counterclockwise to close to GND.



8. Dimensions



9. Disclaimer

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