

**MAKER-REFLECT**

**Analog Reflectance Sensor (Line Detector)**



Datasheet

Rev 1.0

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1. BOARD LAYOUT & FUNCTION



*Figure 1: MAKER-REFLECT Board Functions*

|  |  |
| --- | --- |
| **Function** | **Description** |
| **IR Reflectance Sensor** | Infrared sensors for line detection. |
| **Connector** | Connector:* VCC : Power input for the Maker Reflect.\*
* GND : Ground.\*
* OUT : Analog output. Higher voltage = darker surface.

*\* Warning: Reversed Polarity will damage the sensor.* |

*Table 1: MAKER-REFLECT Board Functions*



*Figure 2: MAKER-REFLECT Schematic*

2. SPECIFICATIONS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Parameters** | **Min** | **Max** | **Unit** |
| 1 | VCC Voltage | 3.0 | 5.5 | V |
| 3 | Analog Output Voltage | 0 | VCC | V |
| 4 | Sensing Distance\*(VCC = 5V, Black line on white surface) | 1 | 40 | mm |

*Table 2: MAKER-REFLECT Absolute Maximum Ratings*

*\* Sensing distance may reduce if VCC is less than 5V or the line-background contrast is low.*

3. DIMENSION



*Figure 3: MAKER-REFLECT Dimension*

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