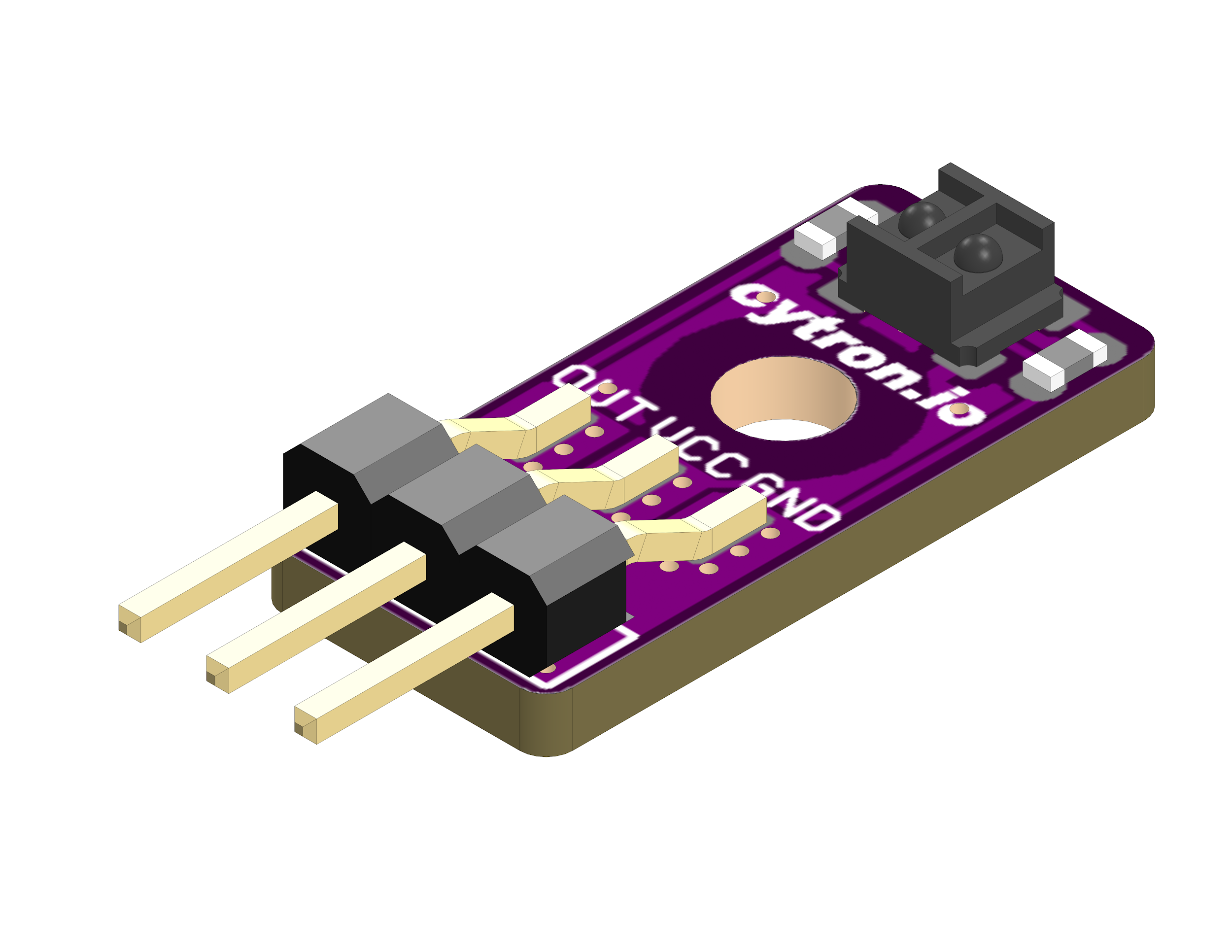


**MAKER-REFLECT**

**Analog Reflectance Sensor (Line Detector)**



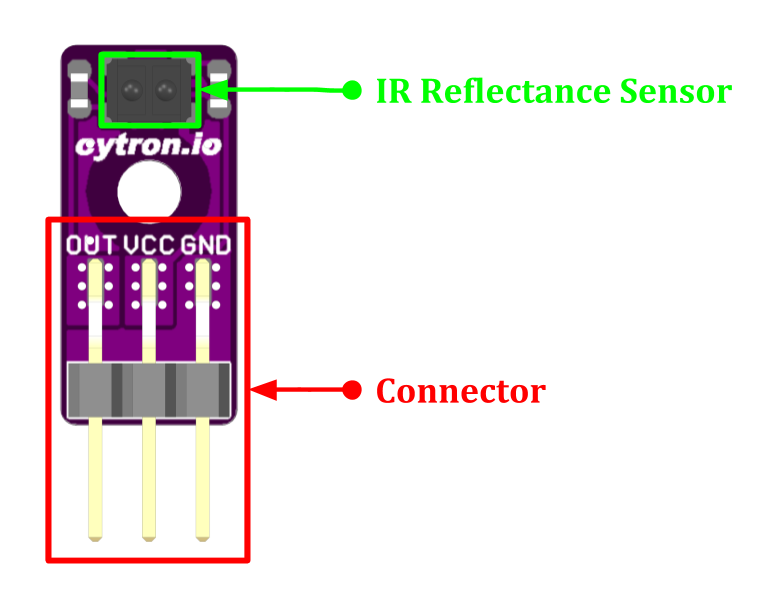
Datasheet

Rev 1.0

November 2019

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| --- |
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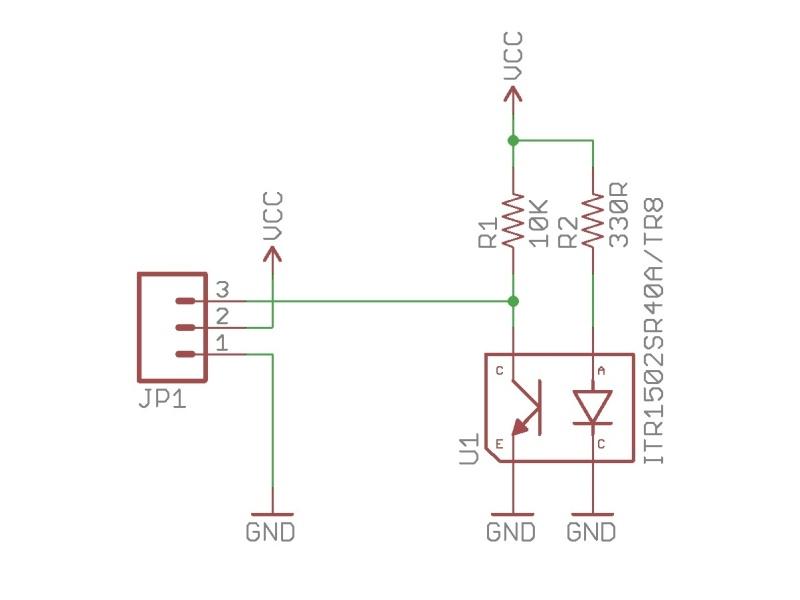
1. BOARD LAYOUT & FUNCTION



*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*

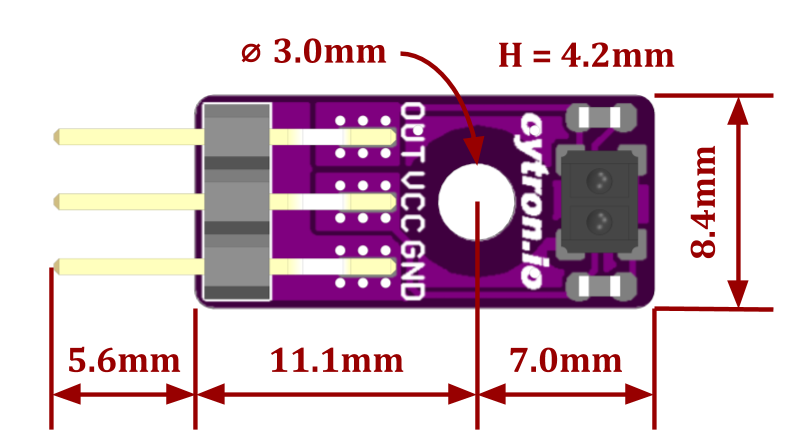
2. SPECIFICATIONS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*

*Prepared by:*

***Cytron Technologies Sdn Bhd***

[*www.cytron.io*](https://www.cytron.io)

No. 1, Lorong Industri Impian 1,

Taman Industri Impian,

14000 Bukit Mertajam,

Penang, Malaysia.

*Tel: +604 - 548 0668*

*Fax: +604 - 548 0669*

*Email:*

[*support@cytron.io*](mailto:support@cytron.io)

[*sales@cytron.io*](mailto:sales@cytron.io)