# Line Following Sensor: An Overview

Team 6

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## Sensor Specification

• Power: 3.3V to 5V

• Weight: 0.007 kg

• Dimension: 78mm \* 18mm

• Detector spacing: 16mm

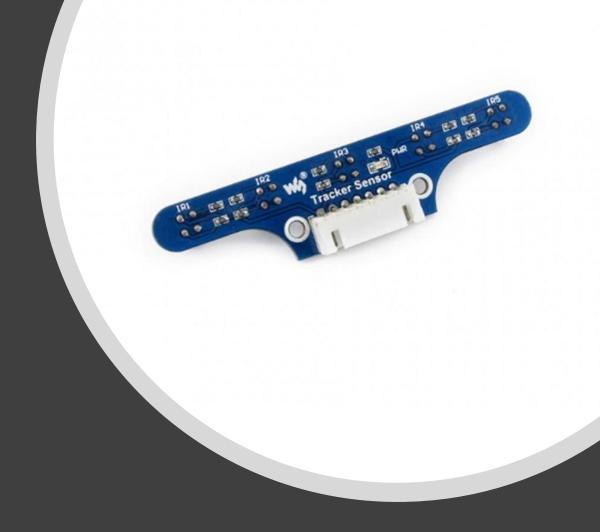
• Mounting holes size: 3mm

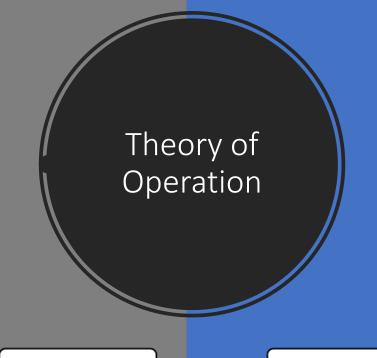
• Detection range: 1cm to 5cm

• 5x ITR20001/T Infrared Detectors

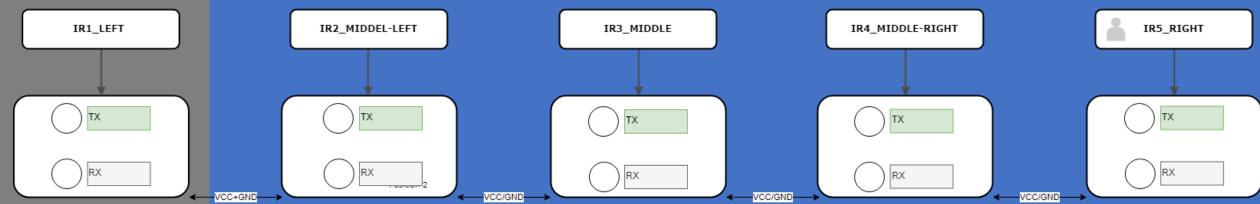
• Five analog outputs (one per sensor)

• XH2.54 7PIN wire connector for interface





- Signal outputs of the sensor vary depending on the color and distance of desired object.
- A detected white surface increases the analog output voltage
- A detected black surface decreases the analog output voltage
- Seen below is the layout of the sensors.



## Purchasing Options

### Sensor:

 https://www.amazon.com/Tracking-Tracker-Infrared-ITR20001-Detector/dp/B073VH14SP/ref=sr 1 12?keywords=line+follower+sensor&qid=1556857415&s=gat eway&sr=8-12

#### OR:

- https://www.ebay.com/itm/Tracker-Sensor-Module-5-ch-ITR20001-T-Robot-Infrared-Line-Tracking-Range-1cm 5cm/252646977876?hash=item3ad2eef154:g:F~cAAOSwiDFYM8H1&frcectupt=true
- Cable: <a href="https://www.ebay.com/itm/323744976812?ul">https://www.ebay.com/itm/323744976812?ul</a> noapp=true