

## **IR Sensor Array 4 way**



This is an infrared based sensor array which can be used in advanced line following and grid navigation robots. The array has 4 individual sensors placed next to each other. Each sensor has its own digital output and can sense the presence of a line and indicate it with a 5V logic output. On reading the the digital state of the eight sensors, the user can not only detect the line but also get to know how far the center of the robot is from the line. When all sensors sense the line, the robot is on an intersection.

### **Features:**

- Uses 4 sensors for best resolution
- Great useful in building fast line following and grid navigating robots
- Comes with easy to use digital outputs that can be connected directly to microcontrollers
- The array has mounting holes of 3mm diameter for easy mounting

### **Specification:**

- Working voltage: 3.3 V to 5 V DC
- The working current, try to choose more than 1 a power supply
- The working temperature: - 10 °C to + 50 °C
- Install the aperture: M3 screws
- The detection distance: 1 mm and 60 cm adjustable, the closer distance performance more stable, white reflection furthest distance.

### **Application:**

- The intelligent car or robot line (including black and white lines), walked along the black line path, also known as tracing.
- The intelligent car cliff avoidance, prevent fall off.
- The smart car obstacle avoidance
- Can be used in other automatic photoelectric reflex application.