

The 4-channel infrared multi-channel detection system includes 4 probes + 1 main control board + 12 Dupont wires.

### Specifications:

1. 工作电压: DC 3.3V-5V
2. Working current: try to choose a power supply of more than 1A
3. Working temperature:  $-10^{\circ}\text{C}$ — $+50^{\circ}\text{C}$
4. Mounting hole diameter: M3 screw
5. Detection distance: 1mm to 60 CM adjustable, the closer the distance, the more stable the performance, and the white reflection distance is the farthest.
6. Size:  $42\text{mm}\times 38\text{mm}\times 12\text{mm}$  (L×W×H)  
Small plate forward  $25\text{mm}\times 12\text{mm}\times 12\text{mm}$  (L×W×H)
7. Output interface: 6-wire interface (1234 is 4-channel signal output, + is positive power supply, - is negative power supply, that is, ground wire)
8. Output signal: TTL level (can be directly connected to the single-chip microcomputer I/O, when sensing the infrared light reflected back by the sensor, the red indicator light is on, and the output is low; When there is no infrared light, the indicator light is not lit and the output is high. )

### Applications:

1. Intelligent car or robot line hunt (including black line and white line), walk along the black line path, also known as tracking.
2. The smart car avoids cliffs and prevents falling.
3. Smart car to avoid obstacles