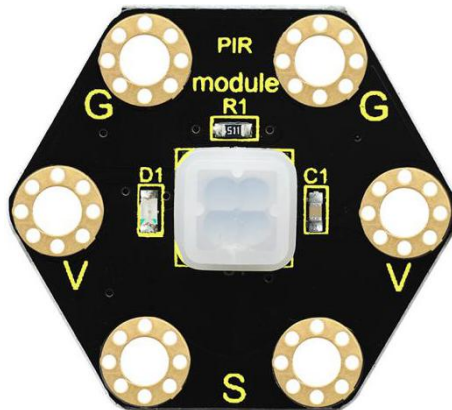




## keyestudio PIR Motion Module For BBC micro:bit (Black and Eco-friendly)



### Description

This keyestudio PIR motion module is fully compatible with micro:bit control board.

It is mainly composed of a digital pyroelectric infrared sensor, which is a digital signal output device.

This sensor has built-in filters, strong anti-interference, low voltage and micro power consumption.

The detection distance of the module is 3-5 meters.

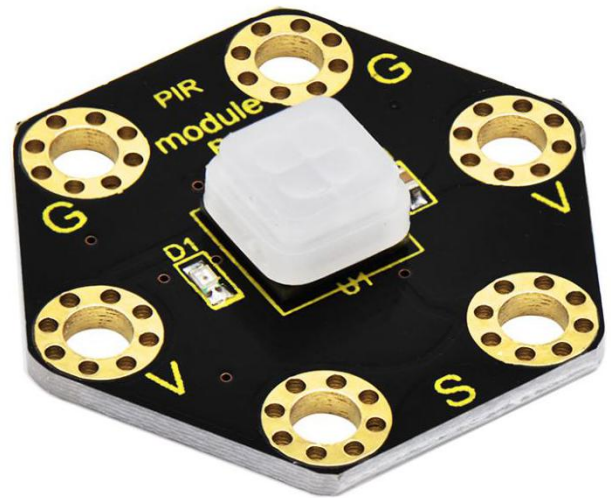
The detection angle in the horizontal direction is less than  $80^\circ$  ; the detection angle in the vertical direction is less than  $55^\circ$

There are total 6 rings on the module. Note that two G rings, two V rings and two



S rings are separately connected. G for ground; V for 3V; S for signal pin(0 1 2).  
When using, connect the module to micro:bit control board using Crocodile clip line.

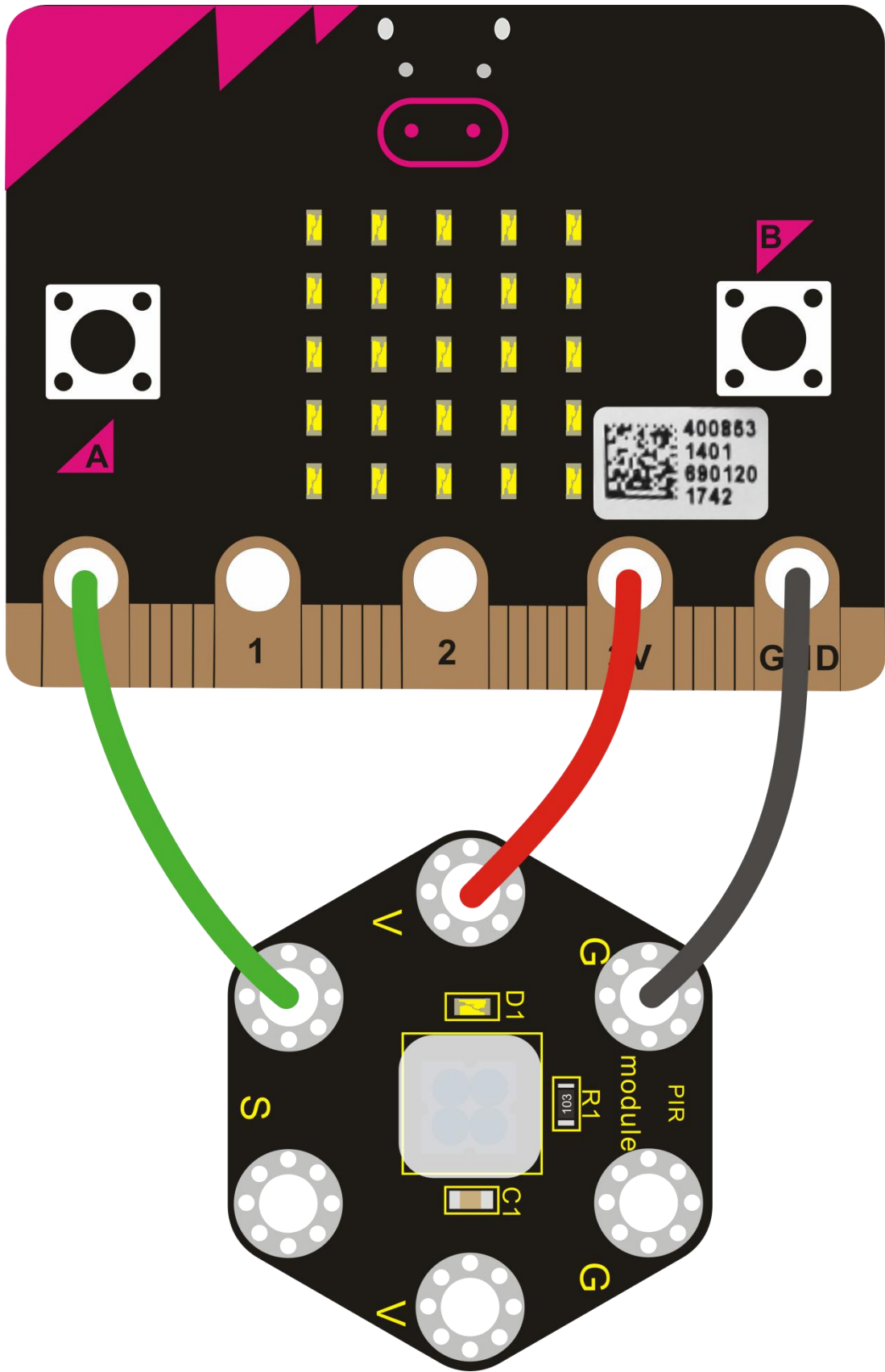
Once detecting someone moving nearby, the signal pin of micro:bit main board will input HIGH level; LED on the module lights.



### Technical Parameters

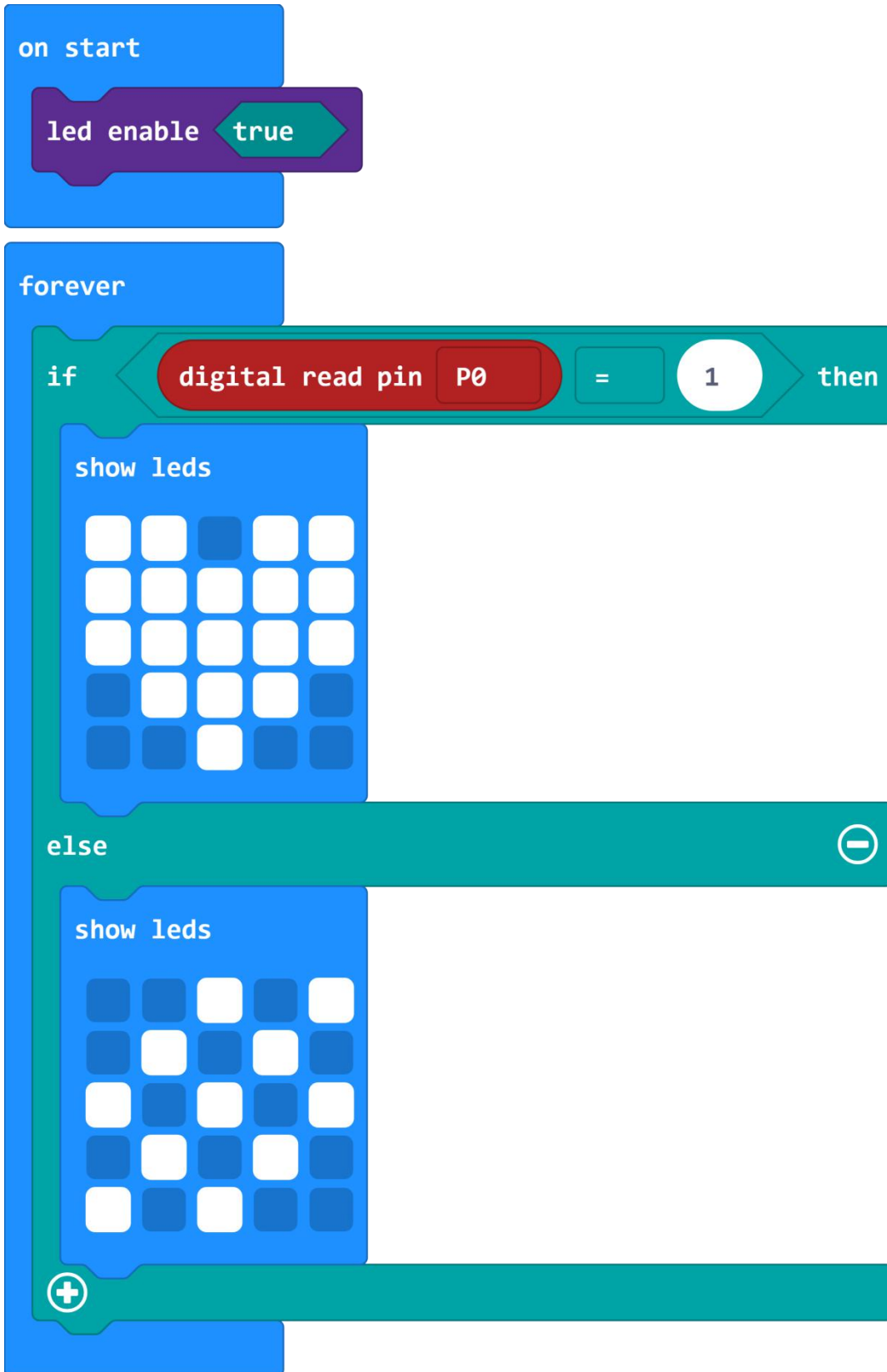
- Working voltage: DC 3.0-3.3V
- Working current: 100mA
- Maximum power: 0.5W
- Output signal: digital signal
- Detection distance: 3-5 meters
- Detection angle: less than 80° in the horizontal direction and less than 55° in the vertical direction
- Operating temperature range: -30°C ~ +80°C
- Dimensions: 31mm\*27mm\*6mm
- Weight: 2g
- Environmental attributes: ROHS

### Connection Diagram





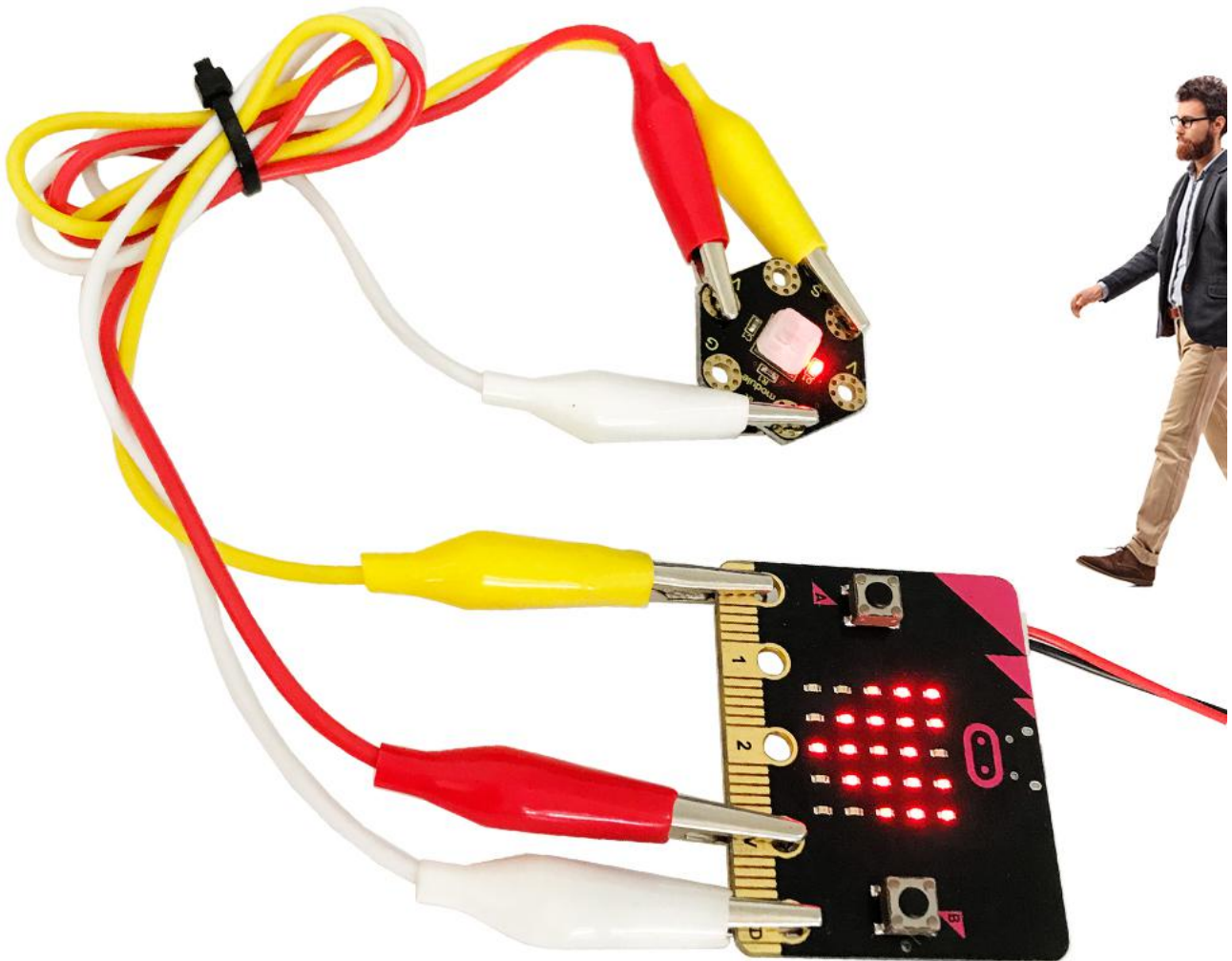
## Source Code





## Example Picture

Connect well the module, then send the source code to the micro:bit main board.  
When detecting someone moving nearby, the LED matrix on the micro:bit main board will show a heart shape icon, and led on the PIR module lights.  
Or else, it will show another image and led turns off.





Resource:

<https://fs.keystudio.com/KS0422>