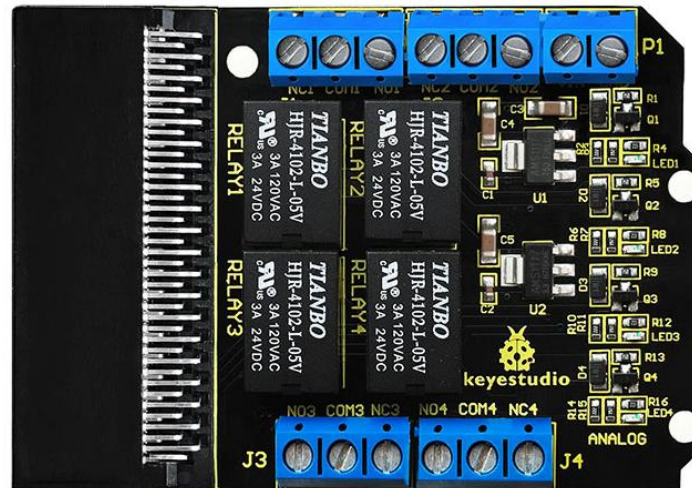


Keystudio Relay Breakout Board for micro:bit**Introduction**

The BBC micro:bit is a powerful handheld, fully programmable, computer designed by the BBC. It was designed to encourage children to get actively involved in technical activities, like coding and electronics.

It features a 5x5 LED Matrix, two integrated push buttons, a compass, Accelerometer, and Bluetooth.

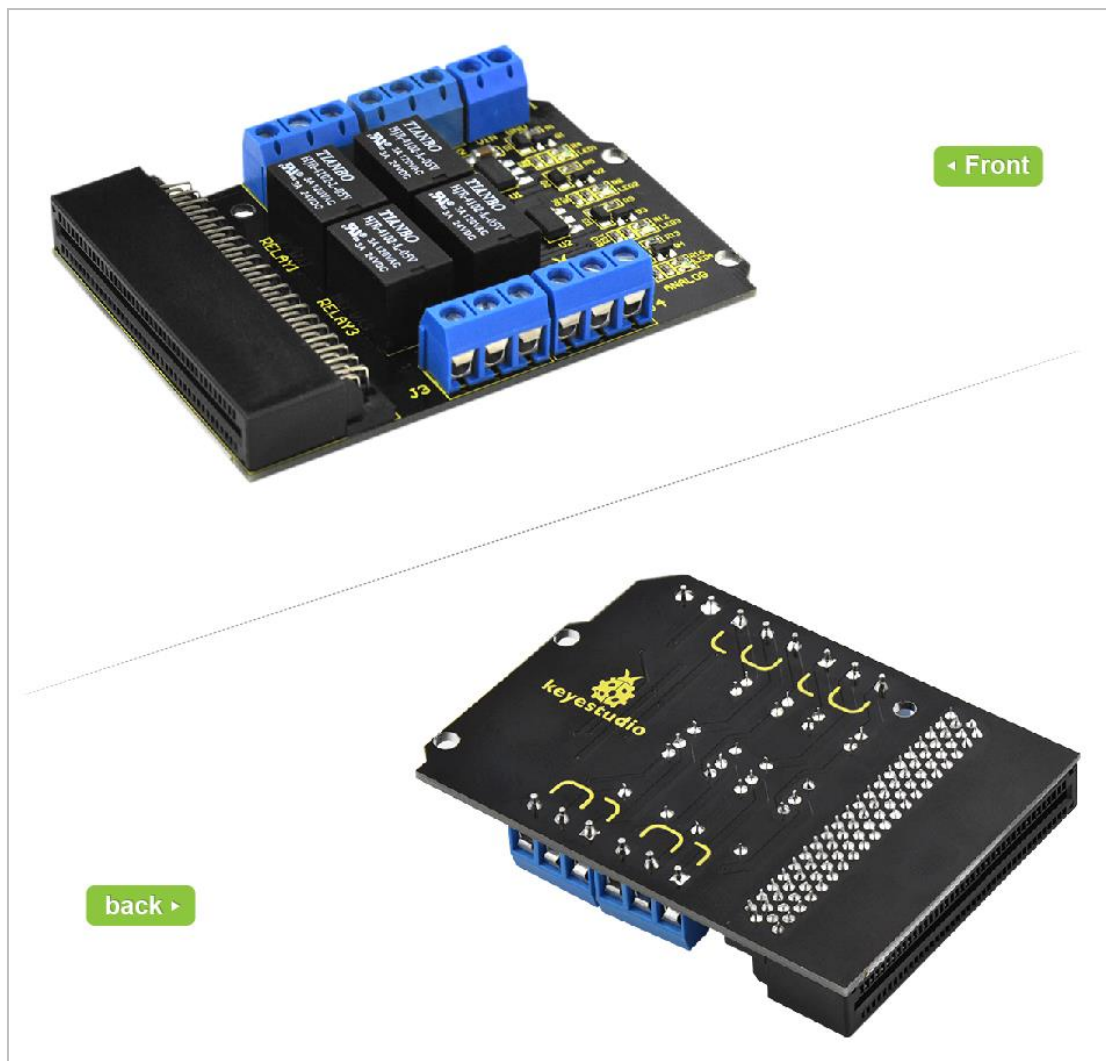
It supports the PXT graphical programming interface developed by Microsoft and can be used under Windows, MacOS, IOS, Android and many other operating systems without additional download of the compiler.

Keystudio relay breakout board for micro:bit has integrated a 4-way 5V
<https://eckstein-shop.de/Keystudio>

relay module, fully compatible with micro:bit development board.

It can work only need to insert micro:bit into keystudio relay shield, then input DC5V voltage on the relay VIN/GND port, pretty simple and convenient.

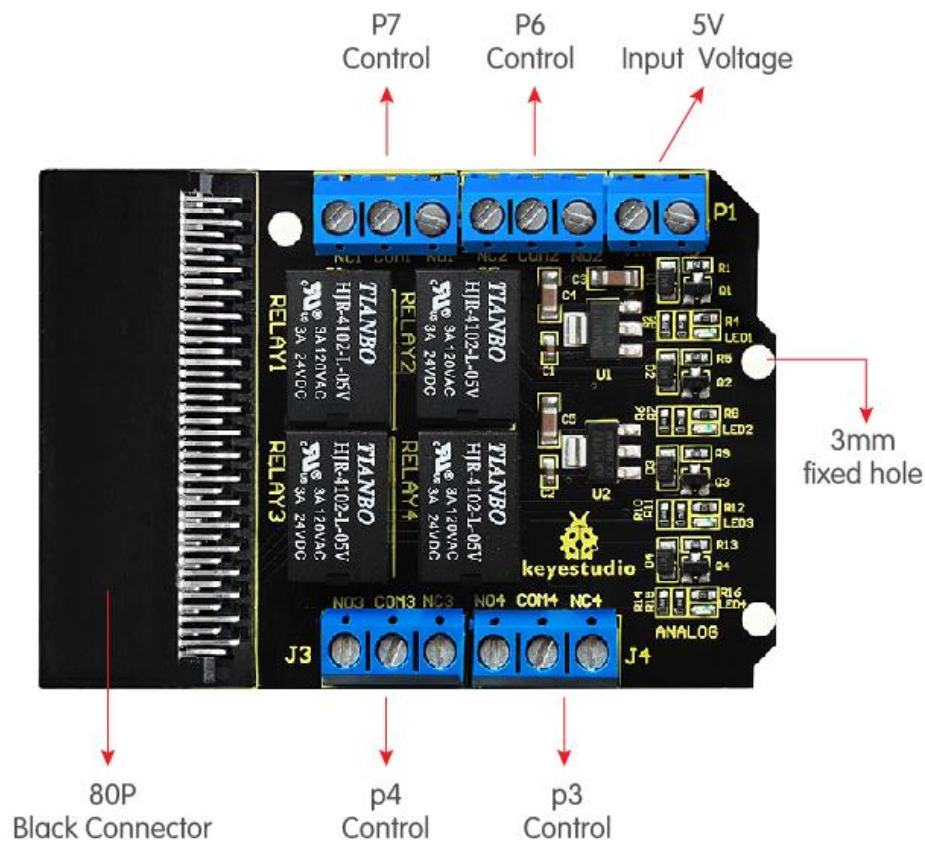
The 4-way relay on the breakout board is active HIGH. Its control terminals are respectively connected to P4, P3, P7 and P6 of the micro:bit development board. You only need to control the high or low output level of P4, P3, P7 and P6 , thus control the 4 relay on/off.



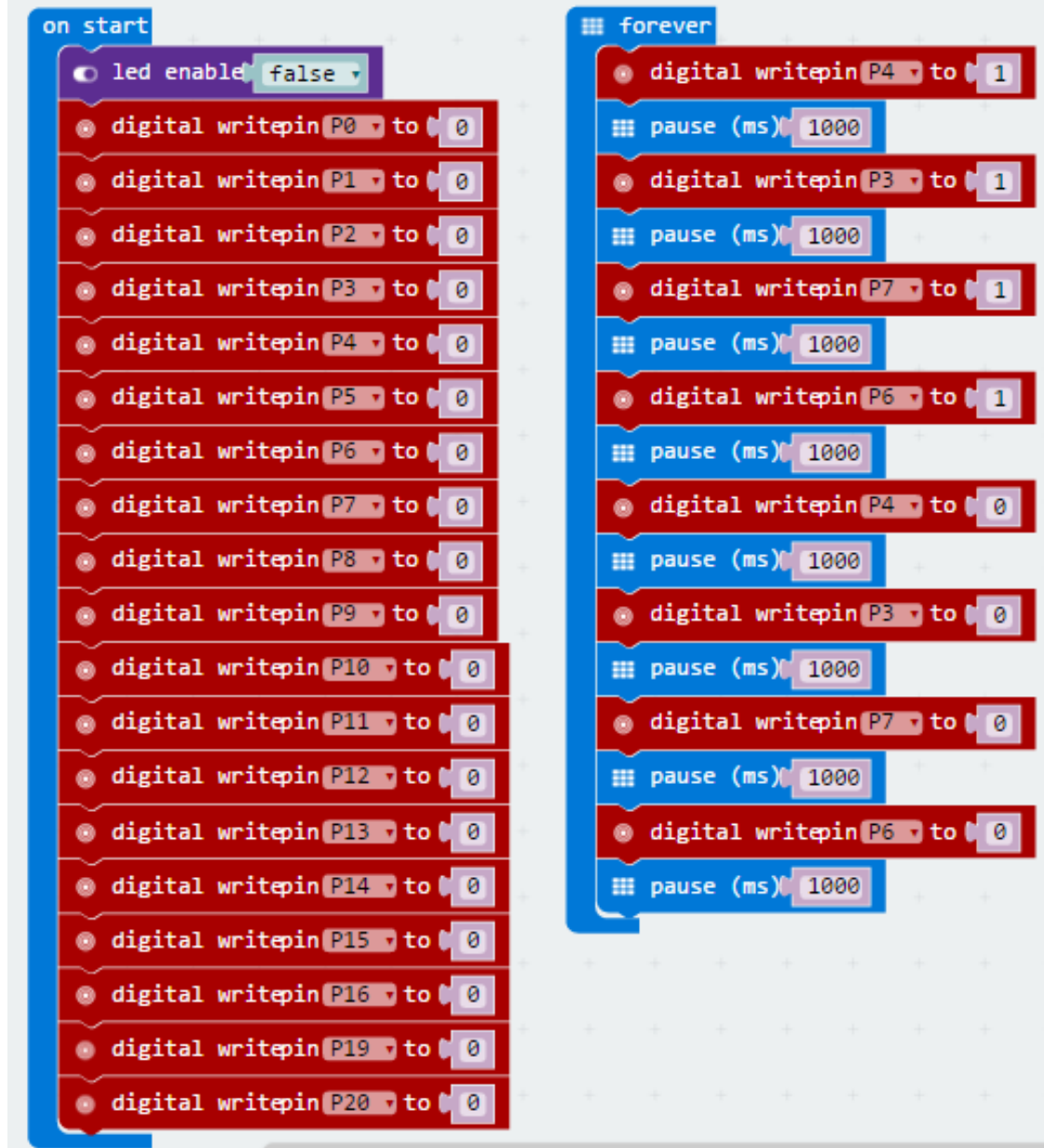
Parameters

- Input Voltage: DC 5V
- Working Mode: active at HIGH level
- Contact Capacity: AC120V/3A ; DC24V/3A

PINOUTS Diagram



Testing Program



Testing Result

Insert micro:bit development board into keystudio relay breakout board; powering up, you can see the 4-way relay is connected and then disconnected one by one.

Go Further

You can connect the additional circuit to realize your project designs.

