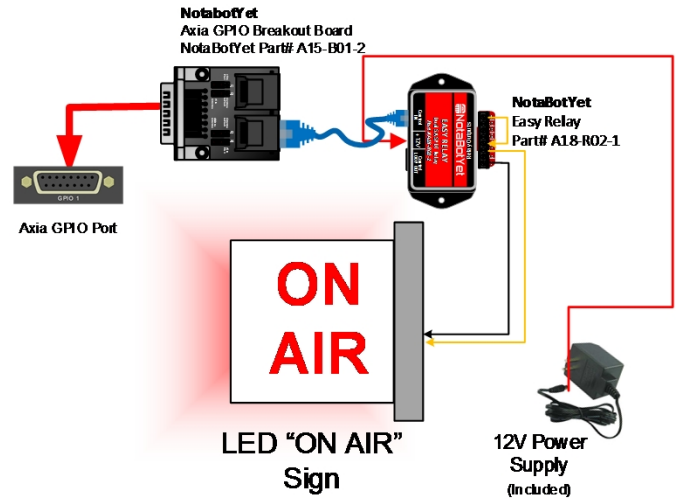


Easy Relay Dual 5A SPDT Relay Interface Part# A18-R02-1



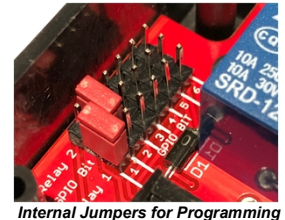
Axia Installation Example

Purpose: The *Easy Relay* from NotaBotYet was designed to provide an easy to install relay interface controlled by Active Low GPIO signals. The onboard opto-isolated relays are capable of switching a 5A load at up to 250VAC. ⚠️ (Use caution when working with high voltages!) This is more than enough to control Incandescent On-Air lights, small electric motors, or other loads up to 5 amps max. The two on-board form C relays provide SPDT outputs that are available on the output screw terminal strip. Also on the output strip are +12V and ground that may be used to power 12V devices up to 900mA from the included power supply. (A 12V 1A power supply is included with the product and the remaining 100mA is reserved for powering the relay coils).

Inputs: Inputs are available on a convenient RJ45 connector allowing the use of standard Category 5/6 wiring to transport Logic and GPIO control within your plant. Inputs are designed so that a standard Ethernet type cabling with straight-through wiring can be used to connect the *Easy Relay* directly to the output connector of the NotaBotYet Axia GPIO Breakout Board Part #A15-B01-2 or the logic output connector of a Wheatstone® Blade. The inputs can also be used with any other type open collector active low switching such as computer GPIO logic cards or even a small signal relay closure to ground.

Mounting: The device is packaged in an easy to mount ABS Plastic case. This takes up minimum space in the plant and allows the end user to employ a variety of mounting schemes based on their needs. Mounting screws are included. Other types of screws and mounting may be used as well, per the creativity of the end user. Other types of screws and mounting may be used as well but must be supplied by the end user.

Internal Jumpers: Since there are 6 GPIO input bits on the device and only 2 relays, It may be desirable for the user to change which bits control which relays. By default Relay 1 is activated by a low on input bit 1 and Relay 2 is activated by Bit 2. If a user wants to daisy chain devices, for instance, they would simply unscrew the 4 screws on the cover, and change the jumpers to make Relay 1 respond instead to Input Bit 3 and Relay 2 by Bit 4. Three devices could be daisy chained this way off one GPIO port. (Note: Axia ports only have 5 bits therefore the 6th bit would not be able to control anything and should not be used as results could be unpredictable)

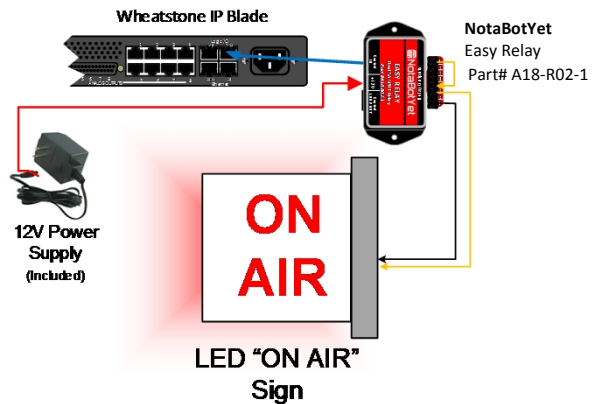


Internal Jumpers for Programming

RJ45 Input Pinout:

Pin Number / EIA/TIA 568B Wire Color

- 1 GND Org/W
- 2 In 1 Org
- 3 In 2 Grn/W
- 4 In 3 Blu
- 5 In 4 Blu/W
- 6 In 5 Grn
- 7 In 6 Brn/W
- 8 No Connection



Wheatnet Logic Installation Example

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