

relay8

Arduino and chipKit library support for relay boards

Manual

The logo for Rinky-Dink Electronics features the company name in a stylized, glowing cyan font with a 3D effect. The text is set against a dark background that includes a close-up image of a green printed circuit board (PCB) with various electronic components and traces visible.

Rinky-Dink Electronics

Introduction:

This library is just a quick and easy way to control relay boards. The library supports from 1 to 8 relays.

This library supports relays board with both active high and active low inputs. To set the correct parameter for your relay board you will have to edit `relay8.h`. Set line 59 to `#define OUTPUT_ON_LEVEL HIGH` if your board requires a **HIGH** signal to switch a relay on. If your board requires a **LOW** signal to switch a relay on you can edit line 59 to be `#define OUTPUT_ON_LEVEL LOW`.

You can always find the latest version of the library at <http://www.RinkyDinkElectronics.com/>

For version information, please refer to `version.txt`.

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FUNCTIONS:

relay8(pin1 [,pin2 [,pin3 [,pin4 [,pin5 [,pin6 [,pin7 [,pin8]]]]]]]);	
The main class constructor.	
Parameters:	pin1: I/O pin for relay #1 pin2: <optional> I/O pin for relay #2 pin3: <optional> I/O pin for relay #3 pin4: <optional> I/O pin for relay #4 pin5: <optional> I/O pin for relay #5 pin6: <optional> I/O pin for relay #6 pin7: <optional> I/O pin for relay #7 pin8: <optional> I/O pin for relay #8
Usage:	relay8 relay(2, 3, 4, 5); // Initialize the library for 4 relays on pins 2, 3, 4 and 5.

numberOfRelays();	
Get the number of relays currently controlled by the library.	
Parameters:	none
Returns:	<int> Number of relays currently controlled by the library
Usage:	int relays = relay.numberOfRelays(); // Get the number of relays

on(relay);	
Switch on one relay.	
Parameters:	relay: Number of the relay to switch on [1-8]
Usage:	relay.on(3); // Switch on relay #3

off(relay);	
Switch off one relay.	
Parameters:	relay: Number of the relay to switch off [1-8]
Usage:	relay.off(3); // Switch off relay #3

allOn();	
Switch on all the relays.	
Parameters:	None
Usage:	relay.allOn(); // Switch on all the relays

allOff();	
Switch off all the relays.	
Parameters:	None
Usage:	relay.allOff(); // Switch off all the relays

cycle([delay_time]);

Cycle through all relays from #1 to the last, then back down to #1 again.

Parameters: delay_time: **<optional>** Time in ms each relay will remain switched on. Default is 250ms.
Usage: relay.cycle(); // Cycle through all relays

cycleUp([delay_time]);

Cycle up through all relays from #1 to the last.

Parameters: delay_time: **<optional>** Time in ms each relay will remain switched on. Default is 250ms.
Usage: relay.cycleUp(); // Cycle through all relays

cycleDown([delay_time]);

Cycle down through all relays from the last down to #1.

Parameters: delay_time: **<optional>** Time in ms each relay will remain switched on. Default is 250ms.
Usage: relay.cycleDown(); // Cycle through all relays

chaseUpOn([delay_time]);

Switch on all relays in sequence from #1 to the last relay.

Parameters: delay_time: **<optional>** Time in ms to delay before switching on the next relay. Default is 250ms.
Usage: relay.chaseUpOn(); // Switch on all relays in sequence from #1 to the last relay

chaseUpOff([delay_time]);

Switch off all relays in sequence from #1 to the last relay.

Parameters: delay_time: **<optional>** Time in ms to delay before switching off the next relay. Default is 250ms.
Usage: relay.chaseUpOff(); // Switch off all relays in sequence from #1 to the last relay

chaseDownOn([delay_time]);

Switch on all relays in sequence from the last relay down to #1.

Parameters: delay_time: **<optional>** Time in ms to delay before switching on the next relay. Default is 250ms.
Usage: relay.chaseDownOn(); // Switch on all relays in sequence from the last relay down to #1

chaseDownOff([delay_time]);

Switch off all relays in sequence from the last relay down to #1.

Parameters: delay_time: **<optional>** Time in ms to delay before switching off the next relay. Default is 250ms.
Usage: relay.chaseDownOff(); // Switch off all relays in sequence from the last relay down to #1