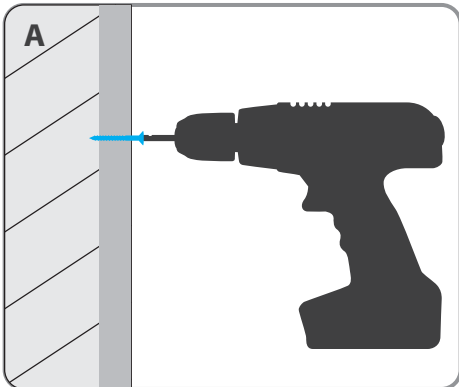


Relay & Contact Sensor-6 Installation Guide

for use with Control4

Mounting

Before mounting, make sure the device is in a location where you can still push the button to join it to the ZigBee network. If the location will be difficult to reach, view the instructions for ZigBee networking and join the device to the network before mounting.

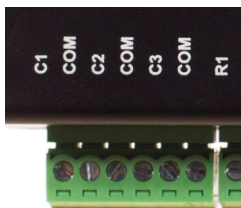


Three Contact Sensors

The RJ12 jack provides 3 contact sensor inputs. Contact sensor inputs are for dry contacts only.

Contact Pinout

Name	Pins
Contact 1	C1&Com
Contact 2	C2&Com
Contact 3	C3&Com



Overview

The Relay & Contact Sensor-6 (RCS-6) is a flexible tool to build a Control4 system more effectively. It combines the capabilities of a repeater and router with 3 contact inputs and 6 relay outputs.

The repeater function allows more devices to be joined to the network, and provides more coverage for a ZigBee mesh network. The RCS-6 contains a new high power radio module and can support up to 16 child nodes.

Included

- Relay & Contact Sensor Device
- Terminal blocks

Mounting

The RCS6 has two holes for screws on either side of the device. Depending on wall material and location, consider using a wall anchor. Distance between screws is 4.5" center to center.

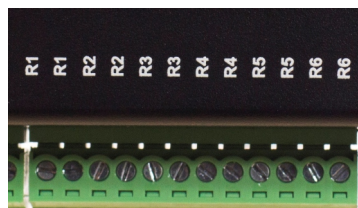


Three Relays

6 Relay outputs with terminal blocks. Relay connections are not polarized.

Relay Pinout

Name	Pins
Relay 1	R1&R1
Relay 2	R2&R2
Relay 3	R3&R3
Relay 4	R4&R4
Relay 5	R5&R5
Relay 6	R6&R6

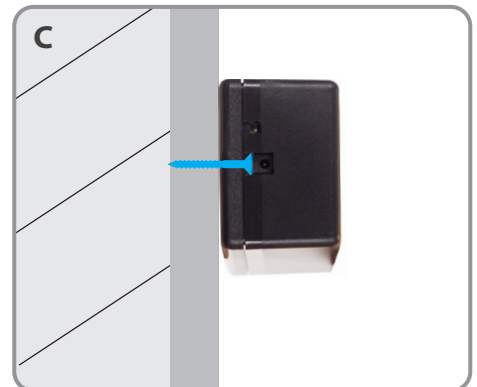


Power Options

This device can be powered by 3.6V DC adapter with either a North American, European, Australia/China or UK plug. It can also be powered via auxiliary power terminal block connection that accepts a 6.5-24VAC or DC.

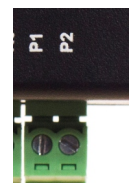
Mounting

Mount the device snugly to the wall.



Power

Alternative to the 3.6V plug-in power supplies, you may supply power by connecting 6.5-24V lines to the P1 and P2 terminals, not polarized.



Relay Specifications 10

DC Load on Relay
 Max current = 1A
 Max voltage = 60VDC
 No Polarity

AC Load on Relay
 Max current = 1A
 Max voltage = 40VAC
 No Polarity

For higher rated loads, an External Relay Module is available.

The External Relay Module comes with a plug-and-play cable that simply plugs into the relay output jack and a dongle that can switch up to 3 loads.

ZigBee Network 13

The device has to be mounted within the range of the ZigBee network in which it is to operate.

A network push button is located in the small hole on the right of the terminal blocks at the bottom of the repeater. Use a paper clip to press the button.

Join:	4 taps	✱	6 flashes - long solid flash when joined
Leave:	13 taps	✱	6 flashes
Setup:	8 taps	✱	1 flash
Reset:	15 taps	✱	6 flashes if not joined or long solid flash if joined

There are 2 setup modes, *Test Contacts and Relays Mode* and *Test Communication Mode*. Setup mode ends after 8 minutes. See testing section for further instructions.

Testing 16

8 tap to enter setup. When in setup, 1 tap to toggle between modes. *Test Contacts and Relays Mode* will respond with 1 flash and *Test Communication Mode* will respond with 2 flashes. Setup mode can also be entered through property setting in composer.

Test Contacts and Relays Mode: LED flashes to display state changes (see table on next panel). In this test mode, when a contact is closed the relay of the same number (ex contact 2 and relay 2) is also closed, when contact opens, relay opens.

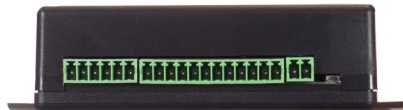
Relay states can be changed by adjusting properties in composer. Relays can be triggered through programming in composer and/or proxy binding connections.

Contact Sensor & Relay Plugs 11

For neatest installation, run wire suitable for RJ12/45 crimping to the Repeater and make plug connections.

ZigBee Network (Cont'd) 14

Network range will vary depending on the strength of the router it is connected to, as well as physical obstructions. Typically the device can communicate up to 400 feet in the open, however range will be significantly reduced indoors. Ensure the network is designed properly and that router strength and physical barriers are considered.



Testing (Cont'd) 17

Action	LED Flashes
Contact 1 or Relay1	1
Contact 2 or Relay2	2
Contact 3 or Relay3	3

Test Communication Mode: Every 7 seconds the device sends a message to the controller, if it receives a reply the LED will flash. More flashes mean a stronger signal. A measurement of signal strength is printed in composer. Set property *Debug Mode* to *Print* and select the *Lua* tab to view signal strength (measured from the last message the device received before sending its comm test message). This message can be from anything communicating with this device including other devices that are using it as a router. Most likely the last message will be from the controller since the controller replies to the comm test message every 7 seconds.

Contact & Relay Wiring 12



Composer 15

Instructions for use with composer can be accessed on our website at: axxind.com/dealers/composer

Drivers

Control4 device Drivers are available for download on our website: axxind.com/dealers/drivers

Please see Documentation tab in System Design pane for this driver in Control4 Composer to see property descriptions.

Troubleshooting 18

If the device doesn't power up, make sure the Power Source Selector matches your power input as described in section 2 (Applies to POE versions only).

To determine if the device is connected to the network unplug the power source and watch the LED while plugging it back in. If LED flashes the device is not joined, if the LED shows 1 long solid flash the device is joined to the ZigBee network.

Check wiring and connections. If they are correct then there may be a problem with the device.

Troubleshooting instructions can be accessed on our website at: axxind.com/about/automation/