

KinCony Relay Driver User Guide

1. Overview

The KinCony Relay Driver is a Control4 (C4) DriverWorks-based driver designed to control KinCony relay devices via IP network communication. It enables seamless management of relay states (Open/Closed), supports channel customization, inverted relay control logic, debug logging, and real-time state feedback with UI icon updates. This driver integrates with KinCony Gateway, RELAY-class devices, and C4 UI buttons to provide comprehensive relay control capabilities.

2. Key Features

- **Channel Configuration** – Supports relay channel selection (1 to 254) to target specific relay outputs.
 - **Inverted Relay Control** – Optional inversion of relay control logic (swaps OPEN/CLOSED commands).
 - **Debug Mode** – Enables debug logging (automatically disabled after 15 minutes to reduce overhead).
 - **State Feedback** – Real-time relay state updates (Open/Closed) with UI icon changes (ON/OFF) and C4 event triggering.
 - **Conditional Checks** – Supports simple conditionals (**Relay Closed** / **Relay Open**) for automation workflows.
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3. Installation

3.1 Driver Import

1. Open your project in Control4 Composer.
2. Navigate to **File > Import Driver** and select the **KinCony Relay Driver.c4z** file.
3. The driver will be added to your project device library.

3.2 Add Device to Project

1. Go to the **System Design** tab.
 2. Locate **KinCony Relay Driver** under the manufacturer list and drag it into your project room.
 3. Open the **Connections** tab, under the **Control/AV** category, bind the KinCony Contact Driver connection to your existing KinCony Gateway device.
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4. Configuration

After adding the device, configure the following properties via C4 Composer (under the **Properties** tab):

Property	Type	Default	Range/Options	Description
Channel	RANGED_INTEGER	1	1 - 254	Specifies the target relay channel on the KinCony device.

Property	Type	Default	Range/Options	Description
Debug Mode	LIST	Off	Off / Print	Enables (Print) or disables (Off) debug logging. Logs auto-disable after 15 minutes.
Invert Relay	LIST	False	True / False	Inverts relay control logic – when True , swaps the 1/0 (OPEN/CLOSED) commands.
Version	STRING	1.0	N/A (Read-only)	Displays the driver version.

5. Supported Commands & Actions

The driver responds to the following commands/actions for relay control:

Command / Action	Description
Relay Open	Sends command to open the relay (sets relay level to 0 ; inverted if enabled).
Relay Closed	Sends command to close the relay (sets relay level to 1 ; inverted if enabled).

6. How to Display Relay Icons in the Control4 APP

After completing the driver installation and property configuration, you need to configure navigator settings in Composer to display the sensor icon in the corresponding section of the Control4 APP. Follow the steps below:

- Go to the System Design tab in Control4 Composer.
- Locate the room where this driver resides in the project device tree.
- Expand the Navigator branch under the target room.
- Double-click the Security option to open the navigator item configuration window.
- Select the corresponding relay driver from the device list on the right, click Show, and then click OK to confirm the configuration.
- Refresh Navigators to apply the settings. The relay icon will then appear on the Security page of the Control4 APP.

7. Events & Conditionals

7.1 Events

- **Relay Closed** : triggered when relay is closed.
- **Relay Open** : triggered when relay is open.

7.2 Conditionals

These conditional statements can be used in programming logic:

- **The relay opened is triggered**
Evaluates as **true** when the relay is in opened state.
- **The relay closed is triggered**
Evaluates as **true** when the relay is in closed state.

8. Troubleshooting

8.1 Sensor Status Does Not Update

- Verify that the **Channel** property matches the actual physical output terminal number on your KinCony module.
- Confirm the gateway network binding is correctly configured in the **Connections** tab.
- Set **Debug Mode** to **Print** and check the Lua console for incoming data and parsing logs.
- Ensure the KinCony gateway is powered on and reachable on the same network.

8.2 Status Display Is Reversed

- Toggle the **Invert Relay** property between **Yes** and **No** to align with your relay's wiring type.

8.4 No Debug Output

- Ensure **Debug Mode** is set to **Print**.
- Reopen the Lua console window to refresh the log output.
- Note that debug mode automatically turns off after **15 minutes** to reduce resource usage.

Document Version: 1.0 | **Last Updated:** June 2026

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