TIME⏲IPS®

RLY-3CH-USB

3-Channel Relay Controller

Installation Guide

FCC Declaration of Conformity (DoC)
Compliance Information (according to FCC 2.1077)

(1) Product: RLY-3CH-USB
The above device complies with Part 15 of the FCC Rules.
Operation is subject to the following conditions: (1) these devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

(2) The responsible party is TimeIPS, Inc. 5445 E 85th St N, Valley Center KS, 67226. Phone 316.264.1600

Notice to Users

The components in this system have been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet circuit other than the one to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

These devices have been tested to comply with the limits for a Class B computing device, pursuant to FCC rules. In order to maintain compliance with FCC regulations, shielded cables must be used with the equipment if not connected directly to the system. Operation with unshielded cables is likely to result in interference to radio and television reception.

CAUTION: Changes and modifications made to the device without the approval of the manufacturer could void the user's authority to operate this device.

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Overview

TimeIPS Relay Controller with three channels:

- Provides specific control over electronic devices including bells, lights, buzzers, door locks, or other devices at clock event or scheduled times as programmed.

- Controls up to three electronic devices.

- Only one control device may be connected to each TimeIPS Network Clock, Server or Clock Station.

- Bells, lights, buzzers, electronic door locks, power adapter and connecting wire not included.

- Compatible with all TimeIPS systems with USB ports.

Locate Relay Controller

Failure to locate and maintain the RLY-3CH-USB unit with the following guidelines will void your warranty.

- Mount the unit in a dry, indoor location with controlled temperature and humidity. Do NOT use the unit in any location where rapid temperature changes may cause condensation.

- The rated operating temperature is between 5C and 35C (41F to 95F).

- Mount the device away from strong magnetic or electro-magnetic fields, such as those produced by microwave ovens, two-way radios, or industrial equipment.

- Secure the relay controller with screws or hook-and-loop fastener.

Connect The Cable

Connect the USB cable to a USB port on the back of a TimeIPS Network Clock, server/system or LCD display with a USB port.

If needed, a USB extension can be used to extend the cable length. Never use an extension cable if the total cable length will exceed 10 feet.
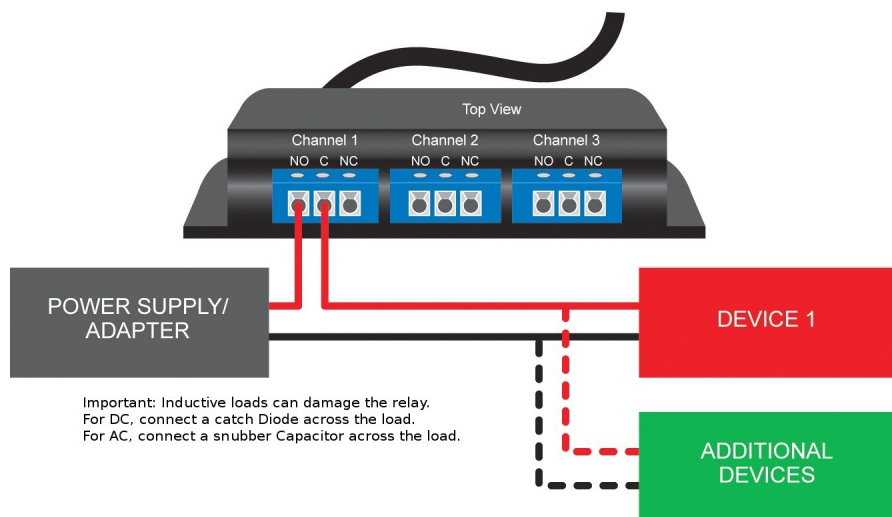
Note: While it is safe (and possible) to connect the relay controller to a running TimeIPS system, in some cases the relay controls may not function until the TimeIPS system is powered off and then back on.

The controller contains three relays, each of which can control a separate device.

USB Connector
can connect to a network
clock or TimeIPS
server/system

Connect Electronic Devices

The relay controller allows devices to be turned on or off by controlling the power supplied to them. The typical connection method is to break the wire on one side of the power to a device and run the two ends into one of the channels on the relay controller as shown below:

Note: Inductive loads (door locks, other relays, electromechanical bells, etc.) can cause arcing that will damage the relay controller unless a catch diode (for DC) or "snubber" capacitor (for AC or DC) is installed across the load.

For a device to be off, except when triggered by TimeIPS, connect to the common ("C") and normally-open ("NO") points on the relay controller. This is used for sounding buzzers for shift changes.

For a device to be on, except when triggered by TimeIPS, connect to the common ("C") and normally-closed ("NC") points on the relay controller. This is generally used for doors that require power to stay locked, then unlock when power is removed.

Connect additional devices to the other channels as needed.
For additional information on connecting devices, please see our support web site at http://support.timeips.com (search for "relay").

Set Triggers and Timers

To configure the behavior of the relay control, log into TimeIPS and click on Administration » Clocking » Relay Controls.

Relays can be set to trigger at set times or when specific events occur.

To use the relay triggers/timers you must purchase and install a TimeIPS® Relay Control unit from our secure website. You can install up to one TimeIPS® Relay Control unit per TimeIPS® Client.

Edit Timed/Scheduled Relay Controls

Relay **Timers/Schedules** allow the activation of up to three devices for a specified amount of time. This is useful for signaling shift changes or the beginning/ending of break periods. To view, edit and create relay timers/schedules, click the "Manage Relay Timers/Schedules" button below.

Manage All Relay Timers/Schedules: [Manage Relay Timers/Schedules]

Employee Triggered Relay Controls

Relay **Triggers** allow activation of up to three devices for a specified amount of time when an employee clocks in or out. This is useful for access control or signaling when an employee has entered or left the facility. Relay triggers can be configured for all employees, for individual employees, or payroll types. Select the employee or payroll type from the list below, and then click the appropriate Manage button.

Manage Relay Triggers:
View all relay control settings and edit or create new ones. When viewing all relay triggers, it can be difficult to determine which triggers will apply to a specific employee. To edit or view triggers for a specific employee or payroll type, use the "Filter" feature in the "Manage Triggers" page.   [Manage Triggers]

For detailed instructions and examples, please visit our support web site at http://support.timeips.com and search the knowledge base for "Relay Example" and read the resulting articles.

Technical Support

Technical Support Resources:
1. Our support web site at http://support.timeips.com offers extensive resources including documentation and our knowledge-base. Please check our support web site first, as it provides complete answers and instructions on almost everything. In the "Knowledge Base Search:" box, enter a few words describing your question. For example, if you have a question on the relay, type "relay" and browse the articles listed.
2. If you have a question not answered on our support site, you can call or email us. A serial number or registration number is required for this service. Additional support can be purchased by calling TimeIPS, or by visiting our web site at http://secure.timeips.com.
3. If you have a simple question, or need direction on how to use our support resources, feel free to email us at support@timeips.com.   If your question is quick, we'll be happy to help. If it's not, we'll let you know that you need to purchase additional support.

Support website	**http://support.timeips.com**
Support e-mail	**support@timeips.com**
Support phone number	**316.264.1600**

Specifications

Specs:

Power:
5VDC, 1W (typical)

Operating environment:
41° - 95°F (5° - 35°C) non-condensing

System Requirements:
   TimeIPS Network Clock or Server system

Approximate dimensions:
4in (100mm) x 4in (100mm) x 1in (25mm)

Approximate weight:
~.5lb (~450g)

Maximum switched voltage:
Recommended 30V, AC or DC

Maximum switched current:
5A, AC or DC. (Fused)

Thank you for reading this manual carefully. If you noticed errors, have any suggestions or found typographical problems, we want to know! Please send an email with the version code below and your feedback to documentation@timeips.com We appreciate your time.

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