

# 5 pin flasher relay wiring diagram

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5-Terminal Relays: Functionality and Applications\*\*

### **What is the 5th Pin on a Relay For?**

The 5th pin on a relay, typically labeled "87a," is an additional set of normally closed (NC) contacts that are used for ancillary switching or interlocking functions.

### **How do 5 Terminal Relays Work?**

5-terminal relays operate similarly to 4-terminal relays. When the coil is energized, contacts 30 and 87 close, allowing current to flow through the primary circuit. Simultaneously, contacts 30 and 87a open, interrupting the secondary circuit.

### **What do the P and L Mean on a Flasher?**

- **P:** Power input terminal
- **L:** Load output terminal

### **What does a Flasher Relay Control?**

A flasher relay controls the flashing of turn signals and hazard lights by alternately switching current between two bulbs.

### **How do You Hook Up a 5 Prong Relay?**

- Pin 30: Battery positive
- Pin 85: Ground
- Pin 86: Coil trigger (switched power)
- Pin 87: Load output (typically to the turn signal or hazard light bulb)

- Pin 87a: Additional load output (optional)

### **Advantages of 5 Pin Relays**

- Provides additional switching capability (87a contacts)
- Allows for interlocking operations
- Simplifies wiring in complex circuits

### **Can I Use a 5-Pin Relay Instead of a 4-Pin?**

Yes, but the 87a contacts on the 5-pin relay will not be used.

### **What is 87a on a Relay Used For?**

87a on a relay is used for switching an additional load independently of the primary load.

### **How Much Voltage Does a Relay Need to Activate?**

The activation voltage of a relay depends on the coil's specifications. Most automotive relays operate with 12V or 24V.

### **What do B and L Mean on a Flasher Relay?**

- **B:** Battery terminal
- **L:** Light (bulb) terminal

### **What do the Letters on a Flasher Relay Mean?**

The letters on a flasher relay indicate the terminals they connect to:

- B: Battery
- L: Light(s)
- P: Power input
- S: Ground

### **What are the Terminals of a Flasher Unit?**

The terminals of a flasher unit are typically:

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5 PIN FLASHER RELAY WIRING DIAGRAM

- **B:** Battery
- **L:** Left turn signal
- **R:** Right turn signal
- **P:** Power input
- **S:** Ground

### **What are the Different Types of Flasher Relays?**

- **Mechanical Flashers:** Use a bimetallic strip to create a timed on/off cycle.
- **Electronic Flashers:** Use transistors and capacitors to control the flashing rate.
- **Hybrid Flashers:** Combine mechanical and electronic components for improved performance.

### **Is there a Way to Test a Flasher Relay?**

Yes, you can test a flasher relay using a multimeter to check for continuity and voltage.

### **Why do My Hazards Work but Not My Turn Signals?**

This could be due to a faulty turn signal flasher relay or a problem with the turn signal switch or wiring.

### **How do You Test a 5 Pin Relay to See if it is Bad?**

- Check for continuity between pins 30 and 87 when the coil is energized.
- Check for continuity between pins 30 and 87a when the coil is de-energized.

### **Which Pin on Relay is Power?**

Pin 30 is typically the power input terminal on a relay.

### **How to Make a 5 Volt Relay?**

To make a 5V relay, you need a 5V coil relay and an appropriate power supply.

## **How to Work a 5 Pin Relay?**

Connect the coil to a power source, the input load to pin 30, and the output load to pin 87. When the coil is energized, the output load is connected to pin 30.

## **Are All 5 Pin Relays the Same?**

No, 5-pin relays can vary in voltage, amperage ratings, and coil resistance.

## **Which Pin is Ground on a 5 Pin Relay?**

Pin 85 is typically the ground terminal on a 5-pin relay.

## **How Many Pins Do Most Automotive Relays Have?**

Most automotive relays have 4 or 5 pins.

## **Can You Trigger a 12v Relay with 5V?**

Yes, you can trigger a 12V relay with 5V using a transistor or an optocoupler.

## **How do You Connect Relay Pins?**

Use wire connectors, crimp terminals, or a relay socket to connect relay pins securely.

## **What does 86 do on a Relay?**

Pin 86 on a relay is the coil trigger terminal.

## **What is 30 85 86 87 on a Relay?**

- 30: Battery positive
- 85: Ground
- 86: Coil trigger (switched power)
- 87: Load output

## **What is the No. 85 Indicates in a Relay?**

Pin 85 on a relay typically indicates the ground terminal.

## What is Relay 5V Used For?

5V relays are used in low-voltage applications, such as Arduino projects and electronics.

## How do You Test a 5 Pin Relay to See if it is Bad?

- Check for continuity between pins 30 and 87 when the coil is energized.
- Check for continuity between pins 30 and 87a when the coil is de-energized.

## Can I Use a 5 Pin Relay as a 4-Pin Relay?

Yes, but the 87a contacts on the 5-pin relay will not be used.

## What do Relay Pin Numbers Mean?

Relay pin numbers typically correspond to their function:

- 30: Power input
- 85: Ground
- 86: Coil trigger
- 87: Load output

## Can 5V Relay Work on 12v?

No, a 5V relay cannot be used with a 12V power supply without a voltage converter.

## How to Wire Up a 5V Relay?

Connect the coil to a 5V power source, the input load to pin 30, and the output load to pin 87.

## What is the Pin Configuration of a 5V Relay?

- Pin 1: Ground
- Pin 2: Coil trigger
- Pin 3: Power input
- Pin 4: Load output

## **Why is My 5 Pin Relay Not Working?**

- Faulty coil
- Broken contacts
- Bad wiring
- Incorrect power supply

## **Can You Put a Relay in the Wrong Way?**

Yes, it is possible to connect a relay in the wrong direction, which can damage the relay or cause malfunction.

## **How to Tell if a Relay Needs to Be Replaced?**

- Intermittent operation
- Excessive noise
- Overheating
- Visible damage

## **What are the Pins on a 5 Pin Relay?**

The pins on a 5-pin relay are typically:

- 30: Power input
- 85: Ground
- 86: Coil trigger
- 87: Load output
- 87a: Additional load output (optional)

## **Are All 5 Pin Relays the Same?**

No, 5-pin relays can vary in voltage, amperage ratings, and coil resistance.

## **What is 85 and 86 on a Relay?**

- Pin 85: Ground terminal

- Pin 86: Coil trigger terminal

### How do You Test a 5 Pin Relay with a Multimeter?

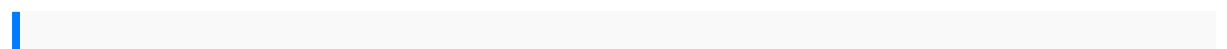
- Check for continuity between pins 30 and 87 when the coil is energized.
- Check for continuity between pins 30 and 87a when the coil is de-energized.

### What are the Symptoms of a Bad Relay?

- No power to the device
- Intermittent operation
- Device overheating
- Erratic behavior

### What does 87 Mean on a Relay?

Pin 87 on a relay is the load output terminal, which connects to the device that is being controlled.



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