TOUCH SWITCH/PLATE

Introduction

The kit combines a touch switch and a touch plate all together in the same kit. In the touch switch two leads must be shorted together by your finger touching them. In the touch plate one plate needs to be touched. The touch switch only needs a battery to activate it but the touch plate requires a main power supply. A relay rated at 240V is included with the kit so that you may use to switch light or other mains appliances. To use the relay you must use a 12V supply taken from the main power supply.

The use of the relay to switch 220V supply with this project must use the correct boxes and connectors to protect us. The kit is constructed on a single sided printed circuit board (PCB). A computer aided design programme is used to design the board.

CIRCUIT DIAGRAM

CIRCUIT DESCRIPTION

The main part of the circuit are the two NAND gates of the 4011 IC which are connected as a flip-flop. Pins 9 and 13 are the ON and OFF contacts. The two gates are connected to the positive rail by the two 10M resistors. Shorting one of the gates with the ground rail by touching it (this is equivalent to connecting about 50K between gate and ground) FLIPs the output to that state. Shorting out the other contact FLOPs it back again. The output of the flip-flop drives a transistor connected as a switch. It switches an LED and a relay. The relay is rated to switch 240V. Connecting the two 1K resistors connects the other two NAND gates of the IC into the flip-flop and makes it much more sensitive with all four gates connected as flip flop.

Trinity college of Engineering

Mini Project Lab Manual

Jin-Ying Zhang

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Table of Contents Mini Project Lab Manual

- 1. Understanding the eBook Mini Project Lab Manual
 - o The Rise of Digital Reading Mini Project Lab Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mini Project Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mini Project Lab Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mini Project Lab Manual
 - Personalized Recommendations
 - Mini Project Lab Manual User Reviews and Ratings
 - Mini Project Lab Manual and Bestseller Lists
- 5. Accessing Mini Project Lab Manual Free and Paid eBooks

- Mini Project Lab Manual Public Domain eBooks
- Mini Project Lab Manual eBook Subscription Services
- Mini Project Lab Manual Budget-Friendly Options
- 6. Navigating Mini Project Lab Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mini Project Lab Manual Compatibility with Devices
 - Mini Project Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mini Project Lab Manual
 - Highlighting and Note-Taking Mini Project Lab Manual
 - o Interactive Elements Mini Project Lab Manual
- 8. Staying Engaged with Mini Project Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mini Project Lab Manual
- 9. Balancing eBooks and Physical Books Mini Project Lab Manual
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Mini Project Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mini Project Lab Manual
 - Setting Reading Goals Mini Project Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mini Project Lab Manual
 - Fact-Checking eBook Content of Mini Project Lab Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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