

RF Controlled Robot Using Advanced Sensors

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Abstract— The wireless communication technology are rapidly spreading in too many new areas, including the automation and the importance of the use of wireless technologies in the data acquisition building control and automation of manufacturing processes will grow. Robots are also useful to do job in area and in situation that are hazardous for human. This paper gives an idea about designing wireless communication between a remote control and a robot. The main aim is to build a wireless robot using Arduino which can be detect obstacles, flames and chemical and the robot can be controlled by a remote control through RF module the information pass through the RF module to the operator and the LED light will glow.

Key Words: Arduino, robot, RF Module, wireless

1. INTRODUCTION

The fundamental concept of wireless communication on a small scale. The remote control application of RF has been extended to operate a bot. The main aim of the project is to implement a wireless robot which can be controlled through remote control using RF module and navigates around the areas and tries to detect obstacles, flames, of fire and chemical. This innovative concept consist of 434MHz Transmitter and receiver pair to allow the arduino on both the ends to communicate wirelessly with each other. [1] Here the Robot can detect the obstacles through the use of ultrasonic sensors. Apart from this the Robot can detect flames of fire through the use of flames sensor. Also it will be able to detect chemicals like H_2 , LPG, CH_4 , CO or propane through the use of a sensors. The robot will be able to implement one of these three functions at a time.

2. METHODOLOGY

Here we show prototype model or 3 phase fault detection, so we make the fault line by using switches. We know that impedance of line is increases with increase in lengths. So we use resistance combination in senses, for each phase different set of resistance is used for each phase one relay is use to isolate the load at the time of fault which give exact length of fault occur on line. The mastermind of our project is Aurdino Uno, The DC supply is requiring for controlling board. Which is provides with the help of rectifier and

transformer combination. Output switches is given analog pin or Aurdino (Uno) and display is also connected to digital output pin of Aurdino. So when we move fault it indicate of display with exact distance, and at a same time Aurdino give output to relay and it, disconnect load from supply. This all thing happen as soon as fault is occur in line. Due to proper program insert in Aurdino on a based. It is possible become voltages of ADE pin is changes according to flowing from line and it depends upon distance of line.

3. OBJECTIVE

- To reduce the human efforts.
- No need of microcontroller.
- Implement without any programming language.

4. METHODOLOGY

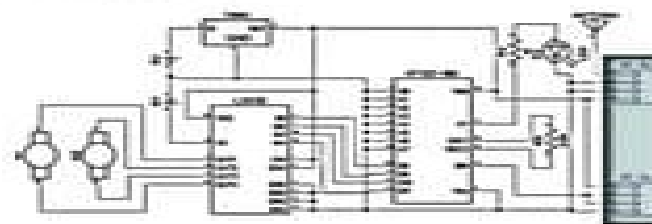


Figure 1 Circuit Diagram of Transmitter

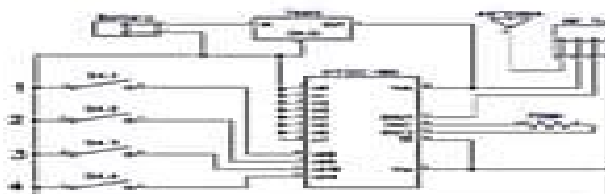


Figure 2 Circuit Diagram of Receiver

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Table of Contents Ieee Paper On Rf Control Robot

1. Understanding the eBook Ieee Paper On Rf Control Robot
 - The Rise of Digital Reading Ieee Paper On Rf Control Robot
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieee Paper On Rf Control Robot
 - 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 Ieee Paper On Rf Control Robot
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ieee Paper On Rf Control Robot
 - Personalized Recommendations
 - Ieee Paper On Rf Control Robot User Reviews and Ratings
 - Ieee Paper On Rf Control Robot and Bestseller Lists

5. Accessing Ieee Paper On Rf Control Robot Free and Paid eBooks
 - Ieee Paper On Rf Control Robot Public Domain eBooks
 - Ieee Paper On Rf Control Robot eBook Subscription Services
 - Ieee Paper On Rf Control Robot Budget-Friendly Options
6. Navigating Ieee Paper On Rf Control Robot eBook Formats
 - ePub, PDF, MOBI, and More
 - Ieee Paper On Rf Control Robot Compatibility with Devices
 - Ieee Paper On Rf Control Robot Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieee Paper On Rf Control Robot
 - Highlighting and Note-Taking Ieee Paper On Rf Control Robot
 - Interactive Elements Ieee Paper On Rf Control Robot
8. Staying Engaged with Ieee Paper On Rf Control Robot
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ieee Paper On Rf Control Robot
9. Balancing eBooks and Physical Books Ieee Paper On Rf Control Robot
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ieee Paper On Rf Control Robot
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ieee Paper On Rf Control Robot
 - Setting Reading Goals Ieee Paper On Rf Control Robot
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ieee Paper On Rf Control Robot
 - Fact-Checking eBook Content of Ieee Paper On Rf Control Robot
 - 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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