Abstract

Security is one factor that is very important in human life, because with the existence of the guarantee of human freedom can perform activities of life easily and without any fear of threats against it. Security is necessary in every place and every time, whether in the home, at work, ever in activity or in a state of rest. One of the places that need a security is the home, where the house is one of the treasures of property, which usually comes from the outside like theft. In this final project the author made a prototype entitled "Design of Home Security System Using PIR Sensor (Passive Infra Red) And Magnetic Switch Based Microcontroller" that serves to reduce the thieves in homes while undergoing daily routine and our feeling a little More calm and not too concerned about the house left behind because it has been In this final project author use PIR sensor which has distance up to 10 meters distance and magnetic switch sensor. In this system author also use Arduino Uno R3, GSM Module, Buzzer, and LCD.From the results PIR (Passive Infraa Red) and Magnetic switch work well on secirity system based on microcontroler

Keywords: Passive Infra Red, Magnetic Switch, Microcontroller , Home Security System, GSM Module