Security Alarm Using Tripwire Laser

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Abstract: *The abstract of this project is to design a Security Alarm using Laser Tripwire. Thisis based on the principle of voltage divider circuit. When the laser beam continuously falls on the LDR, the voltage drop across it is very low as the resistanceof LDR becomes less. As the laser beam is interrupted or disturbed by any object ora barrier the voltage drop across it become high due to change in the LDR's resistance. This triggers the alarm in the circuit. In addition we have added ArduinoUNO controller to control the system and act as an initiator of this system.*

Keywords: Security Alarm

REFERENCES

[1]. "History of Security Alarms", &Mobile Computing", IJARCCE, Volume :9, Issue: 4, April 2020.

[2]. British Security Industry Association (BISA),"Journal on security system section strategy for intruder alarm system", Page 1-3, April 2005.

[3]. Sudarshan.B , Harshitha.S , Janhavi.K.P 'Laser Based Security System' International Advanced Research Journal in Science, Engineering and Technology Vol. 8, Issue 7, July 2021

[4]. Sopan , Ariful Islam proposed a paper 'Laser Based Security System Using Wireless Sensor Network' 2016 5th International Conference on Informatics, Electronics and Vision (ICIEV)

[5]. Ashis Rai , Manjil Rai , Nisha Jogi , Bikash Rai , Shahil Rai , Deepak Rasaily proposed a paper 'Low Cost Laser Light Security System In Smart Home'.International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 4 Issue: 4, pp. 431 – 434, April 2020.

[6]. J.A. Dharne , Shreyash Dongare , Santosh Dhisale , Atesh Dongare proposed a paper 'Develop Laser Security System Using Arduino'.International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 02 | Feb 2021

[7]. Akshata Salunke, Yogita Samindar, Rajnikant palwe proposed a paper 'Laser Tripwire Security System Using Arduino Uno' Pratiksha Pawar, et. al. International Journal of Engineering Research and Applications

[8]. Bishwajit Ghose, "Fisheries and Aquaculture in Bangladesh: Challenges and Opportunities," in JSciMed Central, 2014.

[9]. Dipankor Paul, Md. Sohel Rana, and Md. Mokkaram Hossain, "A preview on experimentation on Laser security system," in Engineering Science and Technology: An International Journal, vol. 2, no. 2, April 2012

[10]. FRSS (2014) Fihseries Statical Yearbook of Bangladesh. Fisheries Resources Survey System (FRSS), Department of Fisheries, Bagladesh. Volume 30: 52 pages