



Fig No 1

that; as regular process peoples will cross there sliding platforms safely and gradually. Highest accuracy of the system will be there, because there is lack of time for closing and opening of Barra gates and the sliding platforms (s).

2 BLOCK DIAGRAM

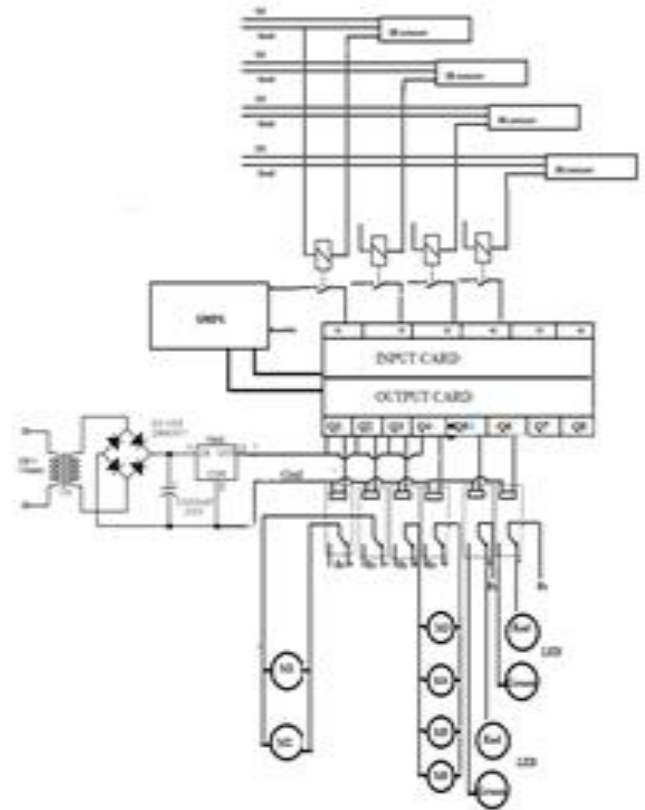


Fig No. 2 Schematic Diagram

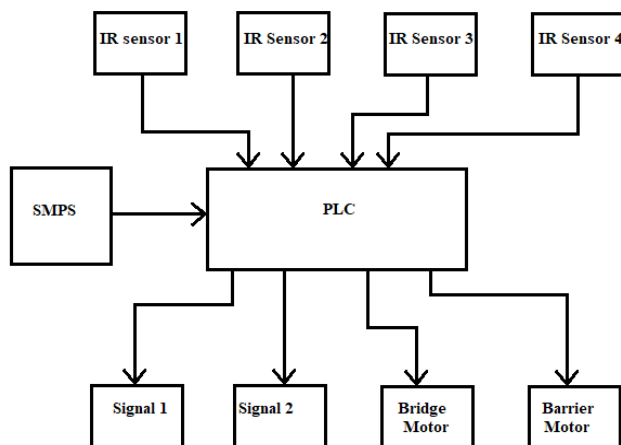


Fig No 2 Block Diagram of System

3.1 IR SENSOR (E18-D80NK Infrared Proximity Sensor)

3 PROPOSED PLAN

AS per the given abstract the proposed plan or working will be same. As soon as there are two platforms in general i.e. platform 1 is 'a', and platform 2 is 'b' our siding platform is 's'. There will be having the availability of sliding platforms attached to per stationary platform. now whenever there will be no train on the platform this sliding platform is in close position, but when train is being coming or its at specific distance the controlling signal will be given to sliding platform and it will be going to opened before the coming the train. This is providence for the safety purpose of peoples who will be crossing the sliding platform. Along with the controlling signals, buzzers are also provided. We are going to maintain the more and more safety as well as reliability of our project. After the train departure, again the alert will be given and Barra gates of the sliding platforms will be opened after

This Infrared Reflectance Sensor Module carries a single infrared LED and phototransistor pair in an inexpensive, tiny module that can be mounted almost anywhere and is great for obstacle detection of robot and home alert system. The optimal sensing distance is within 50cm (20 inches).

3.2 Schneider Logo PLC

The purpose of a PLC was to directly replace electromechanical relays as logic elements, substituting instead a solid digital computer with a stored program, able to emulate the interconnection of many relays to perform certain logical tasks. We have used the Schneider Logo plc. It is a software based instruments and hence it can be programmed using an easy-to-learn programming languages.

3.3 DC GEAR MOTOR

Gear motor is a combination of motor and gearbox. When users choose DC motor, they will find it cannot reach their requirement because of high speed or low torque, so gear motor is their best choice. Our micro DC gear motor uses standard DC motor. Diameter of gearbox is from 8 to 37mm, and gear sharp diameter includes 48mm and 58mm. Voltage is from 1.5V to 24V. Power is under 10W.

4 WORKING

When there will be no train being present there then, the footbridge will have been closed and peoples or senior citizen will cross it with all safety providence. When the train at the specific distance away from the platform then buzzer will sound for close Barricades at platform as well as the remaining peoples those who are standing on footbridge they will cross the platform and after that the footbridge tends to close because the train is coming on platform accordingly with all safety measures will have been done. After closing of footbridge signal will indicate the GREEN signal, so that train can proceed further. If any fault or problem occurs in system, footbridge will not open; incise of this signal will indicate the red light & train will stop. So there is no risk of any type of accident.

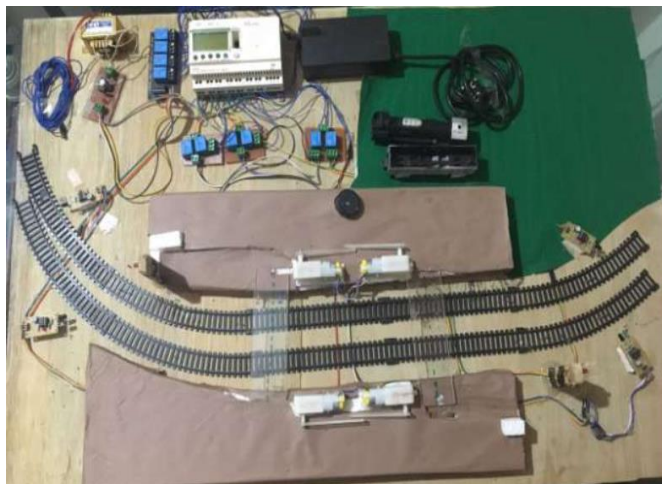


Fig No 3 Implemented System

This method helps in reducing the time and area requirement. Further in future we can make the bridge as a rotating one for the effortless crossing of railway track for disabled persons.



Fig No 4

5 APPLICATIONS

- Less power is used.
- The system is Simple, economic and compact.
- No need to climb bridges over platform to cross the track. There is no need of lift, elevator.
- Time saving.
- Less costly.
- If there is any fault in the system, then the system can be operating manually.

6 CONCLUSIONS

The aim of this paper was to develop a system that could help the disabled person to cross the railway platform in far easy manner. The main contributions this study has made were the establishment of driving rules to allow trains to travel economically while giving priority to safety; the inclusion of additional trains travelling in the same direction at a safe distance apart.

The project will save the energy comparatively to elevator, because of this project crossing of platform will be so easy. This project prevents the level of accidents. Peoples who have factures, leg cramps, chronic foot pains and etc. they also can cross the platform easily as well as it is also helpful for the senior citizens who have problem for crossing the platform by using the bridge.

7 FUTURE SCOPES

The modifications to be done in this project are in a new recognition method using stereo vision which calculates automatically volume of objects in bridge can be used. Moreover, we consider other dangerous factors, such as safety accidents as fall between a platform and a train, getting stuck between the bridges.

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