CONTROL SYSTEM OF MOTOR DC FOR STARTING AND BREAKING USING PID ON SLIDDING DOOR

ABSTRACT

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The door is an intermediary tool for us when going into a house, a problem that often occurs when opening a door was damaged door handles are opened, as well as the number of users then the door will inhibit the process of human labor. it is necessary to develop a plan in order to facilitate the automatic doors at the time we all opened the door.

At this final project developed a tool "control system of motor for starting and braking using PID on sliding door" PID programming applications that we use is to produce an automated system in order, with accuracy and speed of the motor is relatively constant, so when there is someone which will come at a distance of 1 meter closed to the door and the sensor that has been installed it will automatically open the doors automatically and constantly opened and closed during the programming with PWM and PID.

Key words: motor dc, limit switch, driver relay, rotary encoder, sensor PIR, PID programming.
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