

AUTOMATIC DOOR USING A PYROELECTRIC SENSOR

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ABSTRACT

The automatic door using the pyroelectric (PIR) sensor is a door that slides open automatically when a person approaches as the PIR sensor detects the persons infrared body heat. By using simple logic gates, the opening, closing and standstill of the door is controlled through the sensor and two touch switches. With the help of a direction control circuit which basically functions on transistors, the direction of the movement of the motor is controlled. The door is powered by DC motor sliding on a gear and ratchet combination.