DESIGN OF GOODS SORTER BASED ON COLOR AND HEIGHT BASED ON ARDUINO NANO

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ABSTRACT

In the era of the industrial revolution 4.0, the industrial world applied the concept of automation carried out by machines without requiring human power in its application. Currently we have encountered many types of barcodes that function to facilitate the identification of goods. Color has many gradations and types, this can be used for coding goods. In this final project, color reading can be done using TCS34725 as a reading of three types of colors, namely red, yellow and green which are then processed into data in Arduino Nano. Then the goods will be grouped using six servo motors as the sorting arm of the goods. In each container there is an ultrasonic sensor that functions as a height sensor of the goods. The results of the RGB value reading by the TCS34725 sensor. In the testing of this tool, it was carried out two six times and two times an error occurred in the test.

Keywords: Arduino Nano, TCS34725, Servo Motor, Ultrasonic.