

SORTING GOODS BASES COLOR GET PLC FESTO'S BASIS FC 440

by:

**Asiyah Nur R
08506131018**

ABSTRACT

This final project aims to design, make and tests sorting's control system goods bases color get PLC Festo FC's basis 440. PLC Festo FC 440 is utilized as control of self acting goods separations bases object colors. This system is developed of existing tool.

The method used in build sorting's unit goods bases color get basis PLC Festo FC 440 is methodic consisting of engineering umpteen phase which is, (1) Requirement identifications, (2) Analysis the need, (3) Hardware and software scheme, (4) Makings and (5) Examinations. Sorting's unit goods bases color get basis PLC Festo FC 440 consisting of hardware and software. For hardware consisting of power supply, PLC Festo FC 440, colour censor, DC motor, and mechanical conveyor who is adjusted. Meanwhile for software consisting of FST Version 4.2 by statement list's programming languageses. Analisis's tech data did by measures output tension of each series, LCD'S examination result, usufruct colour censor of chromatic object, red, silver , black, without object, and examination sorting gate .

Examination result and the performance from sorting's unit goods bases color get PLC Festo FC 440 have pointed out result that corresponds to expected one. Truth color censor for job object by ruddles as big as 100%, silver's color as big as 80%, black color as big as 100%. For LCD'S appearance its truth reaches 100% for ruddles, color silver as big as 100%, black color as big as 100% and without objects as big as 100%.

keywords: PLC Festo FC 440, Sorting, Colour censor