

# **Building a product classification model by color and size using PLC**

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**Abstract:** In the current context, managing and classifying products based on features such as color and size is increasingly important in many industries. This project aims to build an automated system using a Programmable Logic Controller (PLC) to classify products according to manufacturer requirements. The research method combines theory with experimentation to ensure the accuracy and efficiency of the system. The expected results will significantly contribute to the development of PLC technology in the field of automated product classification, enhancing productivity and minimizing errors.

**Keywords:** PLC, product classification, automation, color, size