

PLC Lab 7: Component Queue Handling & Improving Control

Objectives

1. Improve object detection/sort/rejection to handle many incoming objects
2. Implement checks to handle possible errors
3. Analyze the routine and look to simplify wherever possible

Procedure

There are many different approaches for a routine, each with advantages and drawbacks.

Be creative! One method of doing this is outlined below.

Shift Registers

A shift register could be used to manage multiple incoming objects.

- a. The decision on the component type may be made at a single point on the conveyor.
- b. As a component passes a sensing area, the data is stored against the component number in shift registers.