

## PLC Lab 2: Queue Counting

### Objectives

1. Count the number of plastic rings pushed into the queue.
2. When the queue reaches maximum capacity of 5 either:
  - a. Stop the chain conveyor
  - b. Ignore plastic rings at sort area, allowing them to pass on to the excess bin at the end of the chain conveyor. *Hint: Choosing this option may save time later*

### Procedure

1. Activate the chain conveyor.
2. Sort the metal and plastic components using Sensors 12 and 5 as done in Lab 1.
3. When a plastic ring is detected and ejected increment a counter.
4. When the counter exceeds 5 take either
  - a. Stop conveyor
  - b. Change sorting logic