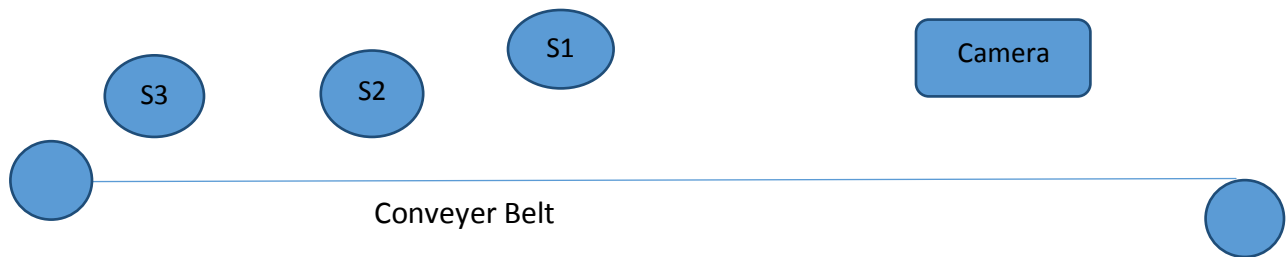


# Object sorting using DIP

## Introduction

To reduce the human effort and to increase the speed of operation automation is used. Here to sort out the object (products) on conveyer belt we use image processing, sensors and mechanism to sort out the object. The color bands are attached to object (let it be red, green, blue). To sort out every product on conveyer belt sensor arrangement will be done for every color object. First object on conveyer will be scan by camera and the image will be taken. The image will be processed by matlab program to identify the color. Once the program identify the color of object particular sensor on conveyer for that color object gets active and when object will reach to that sensor, object sorting assembly for that color gets active to sort out that object.



Conveyer belt assembly with sensor and camera arrangement

Figure gives the idea of actual system.

Block Diagram

