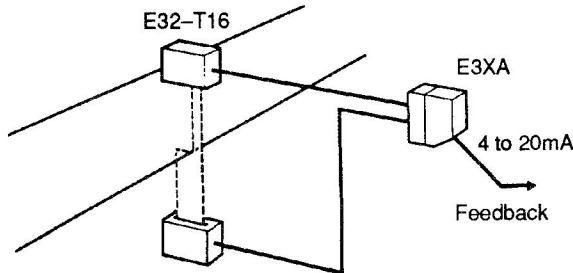


### 26 Sheet Snaking (Warping) Detection

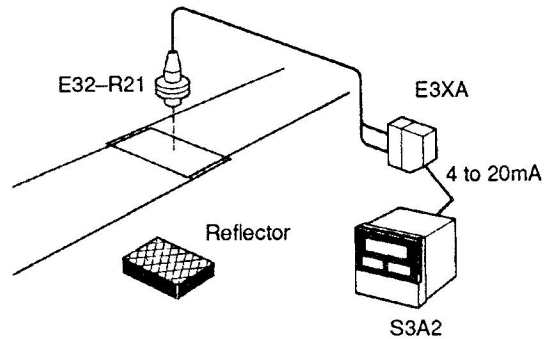
The change in reflected light from sheet snaking is from 4 to 20 mA with feedback control of the sheet's position.



Photoelectric Switch E32-T16/E3XA

### 27 Clear Sheet Pile Detection

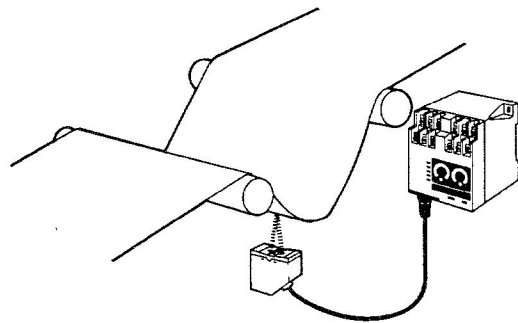
Measured change in the light volume detects piling. MSR is used therefore reflection from the sheet itself has no effect an accurate detection.



Photoelectric Switch E32-R21/E3XA  
Sensor Controller S3A2

### 28 Control of Clear and Photosensitive Film Slack

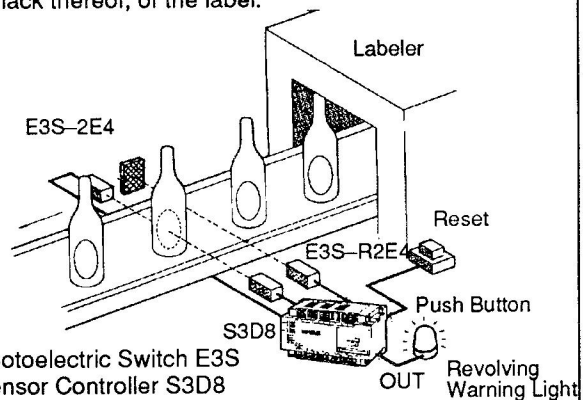
The amount of slack in clear and photosensitive film is difficult to control with optical type sensors. The Ultrasonic Variation Sensor achieves control.



Ultrasonic Variation Sensor E4DA

### 29 Beer bottle Label Presence Detection

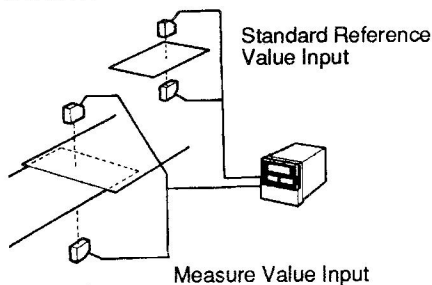
A feedback reflective type photoelectric switch detects the presence of the beer bottle and a transmission type photoelectric switch detects the presence, or lack thereof, of the label.



Photoelectric Switch E3S  
Sensor Controller S3D8

### 30 Clear Sheet Pile Detection

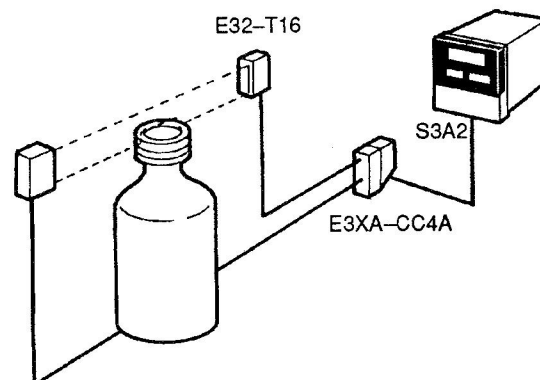
A conventional ON/OFF type detection system needs sensitivity adjustment to detect different types of sheets since the amount of light transmission varies with types of sheets. OMRON's system uses an analog photoelectric sensor to set the standard reference value for the controller.



Detection Subject: Sheet  
Analog Photoelectric Sensor E3SA Linear Sensor Controller S3A2

### 31 Plastic Bottle Height Judgement

This detects the bottle cap's height variation as they move by on the conveyor.



Detection Subject: Bottle Cap  
Analog Photoelectric Sensor E3XA  
Linear Sensor Controller S3A2