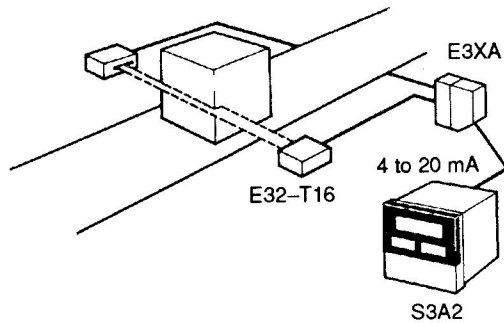## 1 Work Piece Positioning

A 10-mm wide band of light is output and the work piece can be accurately positioned anywhere within that limit.

Photoelectric Switch: E32–T16/E3XA P237
Sensor Controller: S3A2 P566

2 Work Piece Height Determination

Work piece height is determined by the number of blocked light lines. Previously, a large number of fiber and amp units were necessary but only one E32–M2/E3XA set is used with the adoption of this system.
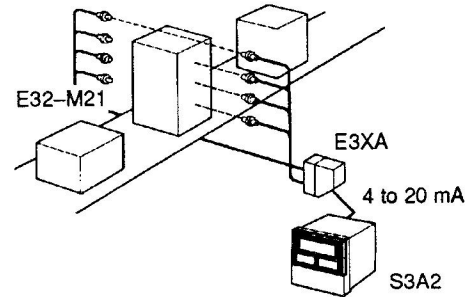
Photoelectric Switch: E32–M21/E3XA P237
Sensor Controller: S3A2 P566

3 Proximity Switch Controlled Work Piece Sorting

Work pieces with BCD codes are attached to a metal rod and placed on pallets. When the pallets pass the proximity sensor they are sorted, according to BCD code, by the code reader of the proximity switch.
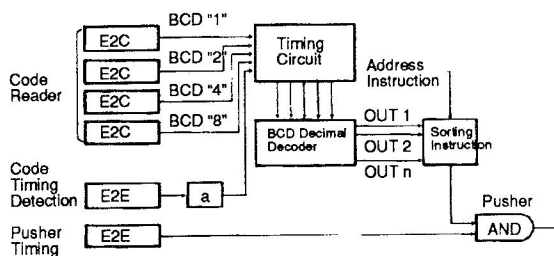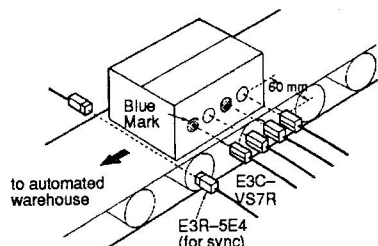
Detection Subject: Metal Rod (Sorting Codes)
Proximity Switch   E2C
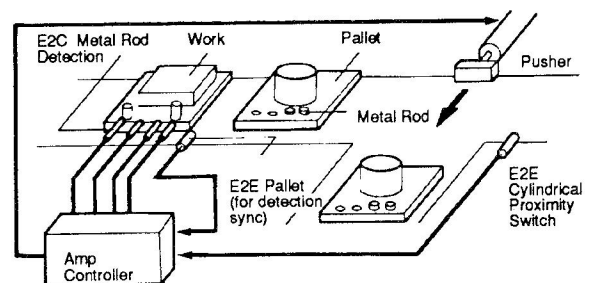
## 4 Distribution by Product Category Mark

A 4-bit binary code contains the information (eg color, type) about the product. This system provides excellent characteristics to detect distance fluttering.

Detection Subject: Product Category Mark (blue mark on light brown cardboard box)
Photoelectric Switch E3C–VS7R
Amp Unit   E3C–GE4
Controller Unit   S3S–A

5 Cardboard Box Lid Detection

The product can not be inserted if the lid of the cardboard box is folded in. The sensor is set so that it is ON when the lid is folded OUT and OFF when it is folded IN.
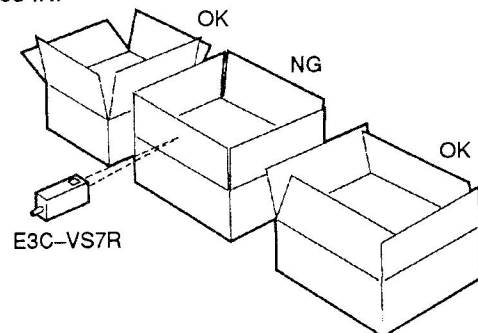
Detection Subject: Cardboard Box
Photoelectric Switch E3C–VS7R
Amp Unit   E3C–G4P