36 Screw Tightness Detection

A linear proximity sensor is used to detect screw looseness.

Amp Unit
E2CA

E2CA   NG

Loose

S3A

Output
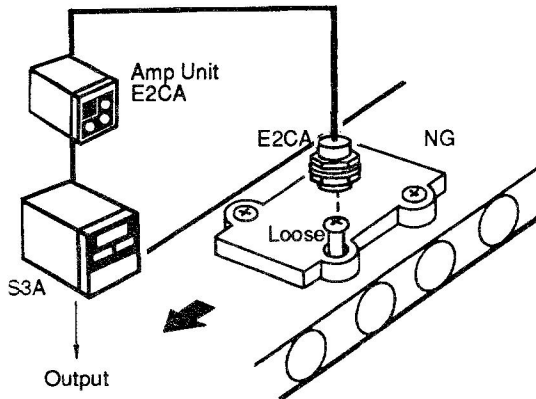
Linear Proximity Switch   E2CA

37 Work Shape Abnormality Detection

A linear proximity sensor detects abnormal shapes.

Amp Unit
E2CA

E2CA

S3A

Metal Work
Piece

Alarm Output
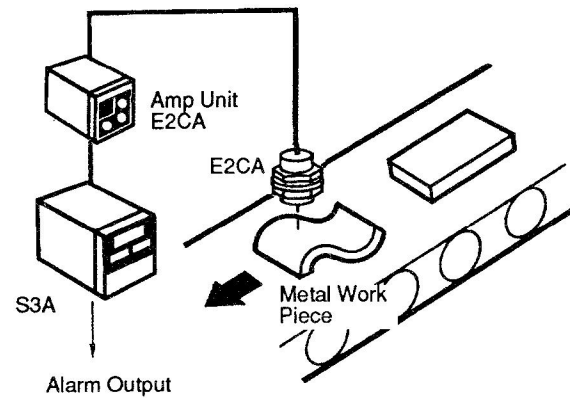
Linear Proximity Switch   E2CA

38 Bar Stock Diameter Measurement

The diameter of bar stock is measured with a laser variation meter as it passes on the conveyor
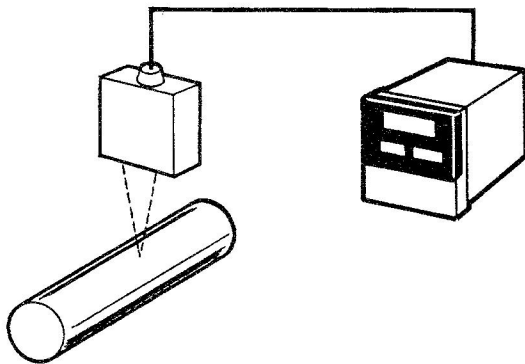
Detection Subject: Bar Stock
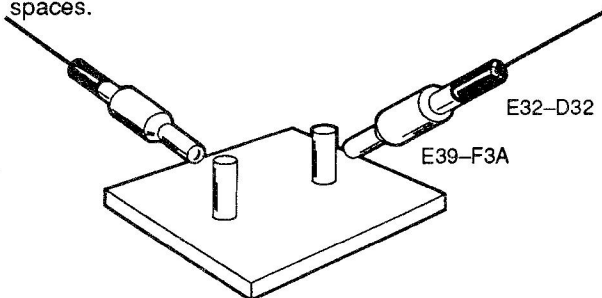Laser Variation Meter   3Z4M

39 Work Warpage Detection

Use the input from the remotely set S3A2, two variation sensors measure the work. The displayed DEV value is used to detect warpage.

reference input

signal input
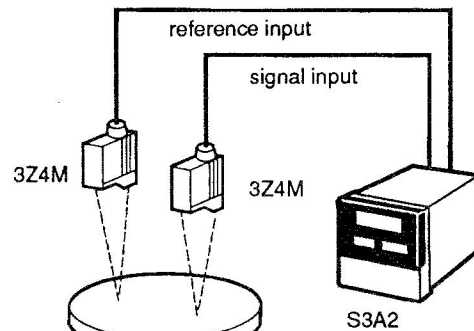
3Z4M

3Z4M

S3A2

Detection Subject: Work
Laser Variation Sensor   3Z4M
Linear Sensor Controller   S3A2

40 Pin Detection

A spot lens is attached to the fiber sensor and SUS pins with a diameter of 1.0 mm can be detected. The lens and fiber sensor can be used in very small spaces.

E32–D32

E39–F3A

Detection Subject: SUS pin
Fiber Unit E32–D32
Micro–spot Lens E39–F3A
Amp Unit E3XR–CE4

41 Lead Detection

Using a laser variation meter lead wires (coil 0.3 mm) that can not be detected by photoelectric means are able to be accurately detected and positioned.

50mm
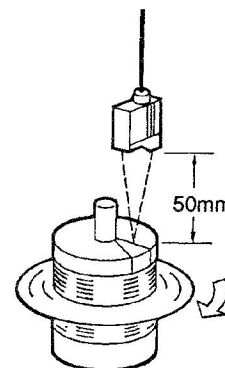
Detection Subject: Lead Wire
Laser Variation Sensor   3Z4M