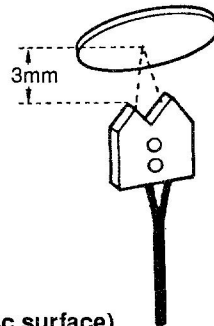
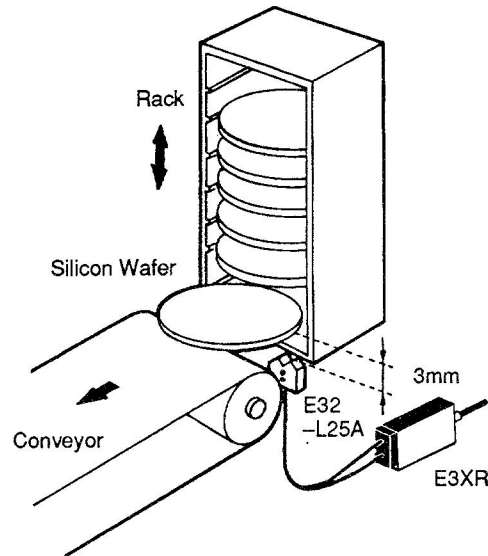


## 1 Wafer Detection for Wafer Transport Device

Can detect with accuracy without being affected by the color and roughness on the wafer surface. Detects silicon, gallium-arsenic, and other wafer materials. Ideal for ceramic and glass boards.

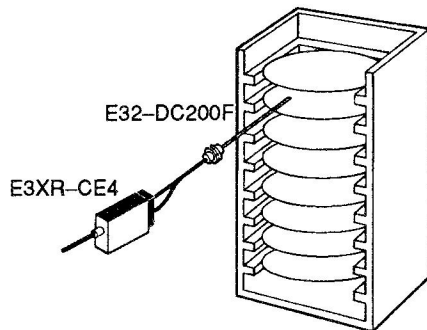


Detection Subject: Silicon Wafer (disc surface)  
Wafer Sensor: E32-L25A/E3XR



## 2 Carrier Interior Wafer Detection

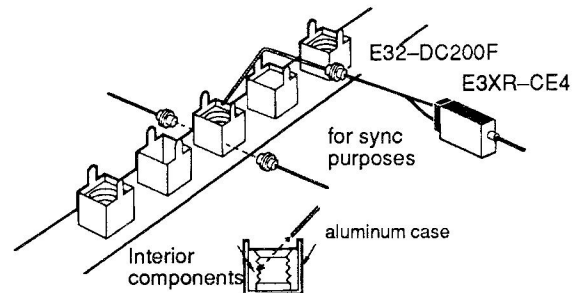
Detects the presence of wafers by sensing the wafer edges in the carrier.



Fiber Unit E32-DC200F  
Amp Unit E3XR-CE4

## 3 Detecting the Presence of Components inside Metal Cases

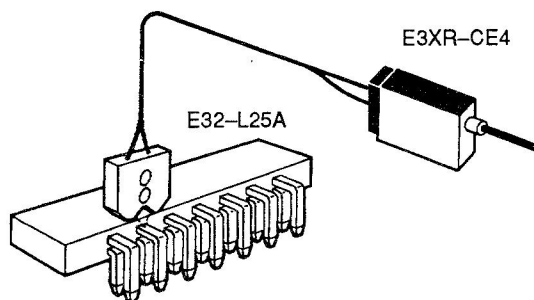
Uses light reflected from an interior component to detect the component's presence.



Fiber Unit E32-DC200F  
Amp Unit E3XR-CE

## 4 Connector Pin Detection

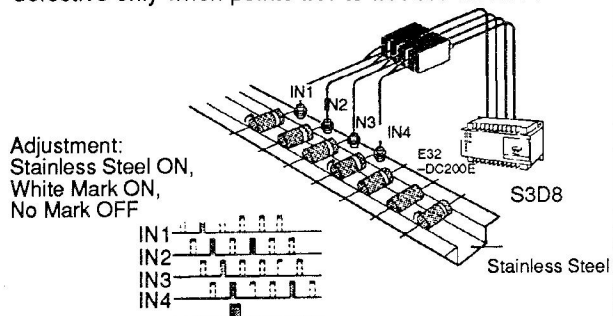
Because the pins are layered, a normal fiber will detect a lower pin even if there is no upper pin. The E32-L25A can detect lower and upper pins separately because it is a limited reflection detector.



Fiber Unit E32-L25A  
Amp Unit E3XR-CE4

## 5 Diode Color Mark Detection

Because the mark background is of highly reflective stainless steel, the detector is normally ON, and will turn OFF only when there is no mark. Because the diodes turn as they pass by, the diode is considered defective only when points IN1 to IN4 are all OFF.



Fiber Unit E32-DC200E  
Amp Unit E3XR-CE4