PFC

Get tighter control over the manufacturing process & stop production before a critical issue arises.

Why PFC?

Cogiscan's **Product Flow Controller (PFC)** gives you tighter control over the manufacturing process by ensuring production will not proceed to the next process unless all required components, materials and tools are detected in the correct locations. Controlling SMEMA, you can rest assured that the PFC will stop production when there is a critical issue such as an invalid setup or route control error.

Functionality

The **PFC** is typically connected at an interface between the conveyor and machine. For example, between a solder paste inspection machine and a placement machine. It prevents a PCBA from advancing to the next step unless all requirements are met and validated, thus ensuring defect-free production at downstream processes. For WIP Tracking and traceability applications, the PFC integrates with conveyor-mounted PCB scanners to ensure the PCBA's unique serial number is captured at each required scan point, 100% of the time in order to ensure data integrity.

"Cogiscan's [PFC] solution **ensures a 100% reading rate of serialized PCBs**, allowing us to provide accurate information within 24 hours to our customers."

JABIL

Senior Business Director, Jabil

Benefits

Improve Production Yield
The PFC will stop the line when any machine, material or process issues are detected.

Improve Material Validation
The PFC will automatically disable production when MSDs or time sensitive materials have expired.

Guarantee Process Control
Ensure that all products follow the correct sequence of process steps as required by the manufacturing route.

Enhance Machine Data Capture
For any legacy machines on the line without scanning functionality, the PFC will ensure PCBA IDs are captured at each key scan point.

Features

1 Advanced Scanning
Supports multiple scanner types to fully enable both top and bottom scanning of PCBAs.

3 Production Interlocking
Physically interlocks the production line to stop a PCBA moving to the next machine in case of a detected error.

2 Open Architecture
Flexible integration options with other SW applications, including other enterprise third-party systems.

4 Unique ID Readability
Ensures 100% read-rate of PCBA bar codes at every required scan point on the SMT line.

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