

Model FPC Control System

Open Architecture Multi-function Machine Controls for Fluid Power Safety of Hydraulic or Pneumatic Energy Based Machines

Design Criteria

- Complies with OSHA and ANSI Codes B11.3-2012 and B11.2-2013 requirements.
- Complies with ANSI (American National Standards Institute) various B11 standards.
- Control reliable design for rotary (resolver or rotary cam) or linear action machines.
- Category 4 Control Category per EN 954.
- Performance Level – PL e per EN/ISO 13849-1.
- The FPC Control has redundant cross-checking microprocessors.
- The FPC Control has redundant DC power supplies.
- The FPC Control has redundant and monitored ram advance with force guided output relays and external relay monitoring.
- The FPC Control monitors faults, including diminished performance faults. The control's fault detection has no dependency on external machine controls.
- The FPC Control returns the machine to a safe position whenever there is loss of pressure or other such event.
- The FPC Control stops the machine operation upon detection of a fault condition until such condition is corrected.
- The FPC Control contains a dedicated specific reset input which prohibits a machine reset by removing or re-applying the pneumatic or hydraulic power.
- The FPC Control requires that the machine reset(s) be operator actuated.
- The advanced platform engineering of the FPC control provides the end user field functionality upgrades or program modifications via an on board USB port for downloads. Ethernet is optional.

Applications

- Pneumatic or Hydraulic Energy Based Machines
- Also applicable for powder metal presses, multi-slide/four slide machines, forging press controls and specialty or custom machine controls.

Consult the factory by phone at (412) 262-1115 or by email at sales@pressroomelectronics.com to review your project needs.