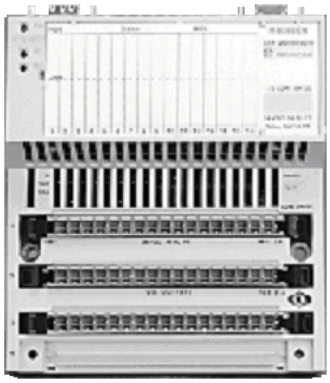
Integrated Industrial Technologies, Inc.
Innovative Ideas in Motion

Momentum

Momentum High-Speed Programmable Limit Switch Module – PLS 210

The PLS 210 is a high-speed programmable limit switch module manufactured by Integrated Industrial Technologies for the Schneider Electric TSX Momentum open architecture system. The PLS 210 monitors the position of a single-turn resolver, which is used to set the state of 16 ultra high-speed outputs. The on/off positions for each output is set by either a TSX Momentum Processor Adapter mounted to the PLS 210 or from a remote PLC or PC field bus connected to the PLS 210 with a communication adapter. The user may also program the on/off positions from the Windows PLS Setup Software via the on-board serial port, allowing the PLS 210 to be a stand-alone controller.



Features & Benefits:

- One 16-bit ***resolver input channel*** (scalable in user units). User selectable for absolute or multi-turn applications, after referencing.
- Sixteen ultra high-speed user position or timed ***configurable outputs*** with user definable lead/lag speed compensation (8 Sinking and 8 Sourcing outputs)
- Eight user ***configurable inputs*** for product synchronization, product presence for switch gating, or registration mark synchronization
- Two ***scalable analog outputs*** that are proportional to the resolver speed *(future item)*
- All Digital and Analog updated every ***50 microseconds***
- PLS ***Windows Setup Software*** for Windows 95, 98, NT and 2000 for module configuration, monitoring, and diagnostics.
- All output and input states, analog output values, and module status updated with every scan of the M1 Processor Adapter (if used). ***Update of module state/status*** differs with various optional field bus communication adapters.
- ***Compatible*** with the complete line of Schneider Electric Communication/Processor Adapters
- Can be used in various ***Control Configurations*** such as a PLC, PC Controller, or Stand-alone Controllers.
- User adjustable ***Speed Compensation***
- For use in various ***Field Bus Networks*** (presently limited to available Schneider Electric Communication Adapters).

Module Applications:

- ***Programmable Limit Switch*** – One Channel high-speed PLS Resolver Feedback to Monitor Position, Speed and Outputs (a true PLS).

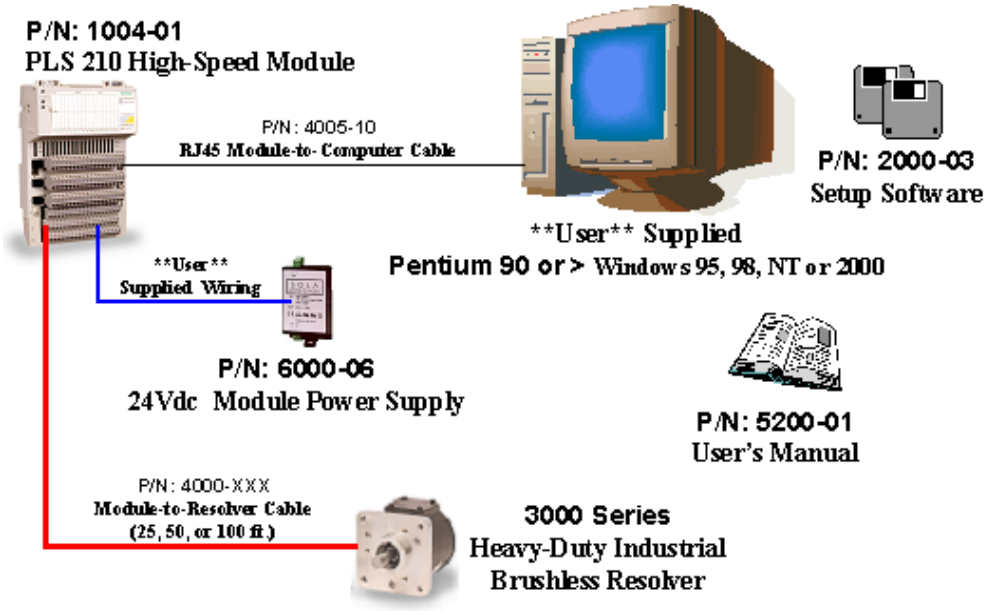
Press Control Applications
Assembly and Packaging Machinery
Food Processing, Packaging, Labeling
Paper Product Production
Glue or Material Applicators
Pharmaceuticals, etc…

PLS 210 – Momentum High-Speed Programmable Limit Switch Module

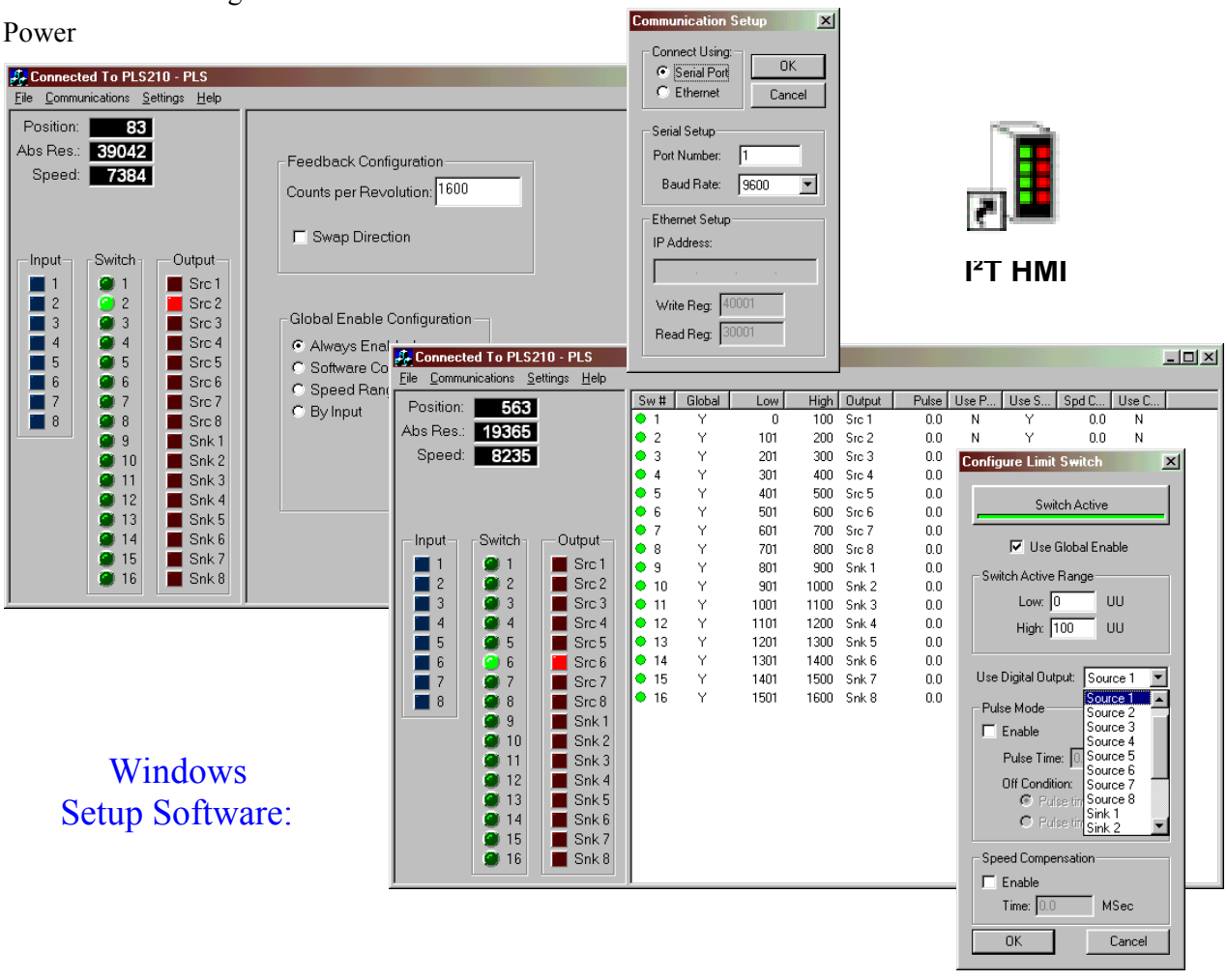
Specifications:

- One 16-bit Resolver Input Channel
- Sixteen 24Vdc Ultra high-speed Digital Outputs (8 Sinking, and 8 Sourcing)
- Eight High-speed Digital Inputs (10 - 30Vdc)
- Two Scalable Analog Outputs (±10Vdc)
- Position/Speed/I/O State/ Status Reported to Optional PLC Registers
- All Positions for I/O States Set from a PLC, PC, or Windows HMI
- User Configurable Inputs for Cycle Reset, Synchronization, Registration, and Conditional Logic
- 24Vdc Input Power

Typical Configuration:



Windows Setup Software:



I²T HMI

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