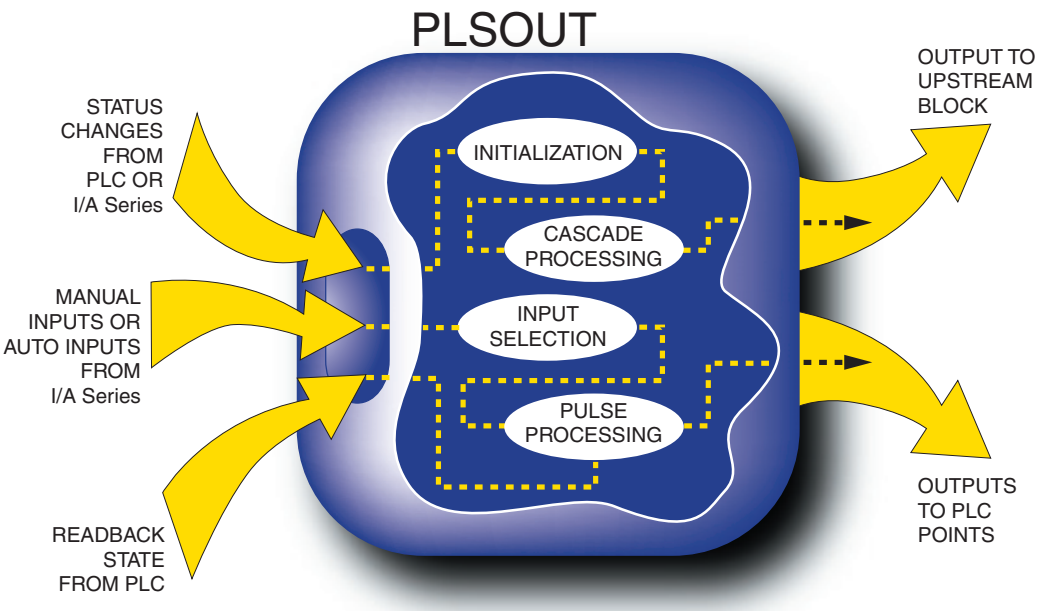
Foxboro Evo™ Process Automation System

Product Specifications

Foxboro® by Schneider Electric

PSS 31S-3PLSOUT

Pulse Output (PLSOUT) Block



The Pulse Output (PLSOUT) block allows the control strategy or operator to output ON/OFF, or START/STOP, type commands through momentary pulsed outputs on two separate lines, one for each state, for an Allen-Bradley™ Programmable Logic Controller (PLC™).

OVERVIEW

The Pulse Output (PLSOUT) block sends commands to the PLC in the form of momentary pulsed outputs on two separate lines. Typically, these commands are sent to a latching function in a PLC. For example, one command could be sent to the set input of the latch and another sent to the reset input. This technique is useful in applications where multiple sources of commands feed into a single latch in the PLC logic.

When in Auto mode, the block accepts transitions at the Input Request parameter to drive the output pulses. In Manual mode, the Set Request and Reset Request parameters drive the output pulses.

An I/A Series® station continuously reads back these output values, and presents the readback values as the confirmed block output.

A limit-switch function in PLSOUT can cause an immediate termination of an active pulse to the PLC.

To aid diagnostic testing, the structure of the block output causes the value read back from the PLC to be reflected in the block output.

PLSOUT does not provide any alarm detection or reporting capabilities.

FEATURES

- Manual/Auto control of the block output signal; can be initiated by a host process or another block
- Separate block inputs for use in triggering pulses when in Auto and Manual
- Two pulsed outputs to two configured PLC addresses may be used in set and reset inputs of a latching function
- Continuous readback and display of values at the PLC addresses
- Limit switch state made available at specific configured PLC point
- Specific point reserved for tracking notification from PLC
- Parameters for future use as open cascade notification to upstream blocks.

PRINCIPAL PARAMETERS

Input

- Input/set/reset binary points.

Output

- 2 binary pulse output points
- 1 binary back calculated output.

SUPPORT

PLSOUT is a PLC block which allows the following I/A Series equipment to interface Allen-Bradley PLCs:

- AW70 processors with control software (see 70 Series Application Workstation Model AW70 [PSS 21H-4U1 B3])
- AW51 Integrators (see 50 Series Application Workstation Model AW51 [PSS 21H-4R1 B3])
- Micro-I/A Station (see Field Automation Subsystem Micro-I/A™ Allen-Bradley PLC5/E Remote I/O Interface [PSS 21H-6C6 B4])
- Allen-Bradley Station (see Allen-Bradley Station [PSS 21H-1F1 B3]).

PLC blocks are supported on I/A Series software version 6.2 or later. Value points for PLC blocks are listed in Micro-I/A FoxBlock™ Integrated Control Software (PSS 21H-6C1 B4).

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