MOOG

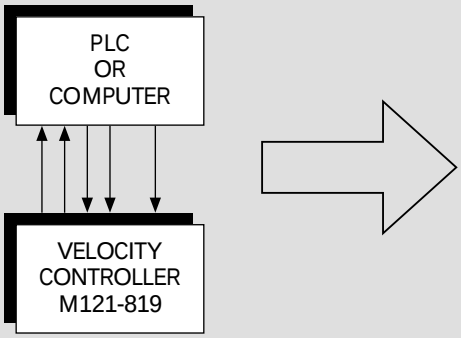
PLC Compatible Velocity Controller
Model M121-819

Description

The Moog M121-819 series controller has been developed to meet the need for a general purpose system capable of interfacing with a variety of inputs (manual, PLC, process computer) to achieve reliable accurate velocity control.

Applications for the system include variable speed conveyors for apron feeders, canning lines, ore-handling, batch weighing, auger drives, pan filter drives or mixers.

This M121-819 controller can be used in a number of control modes depending on the load requirements. Typically, the velocity is set by adjusting the displacement of a variable displacement piston pump but in some instances, it may be preferable to control the hydraulic motor directly with a servovalve or proportional valve.

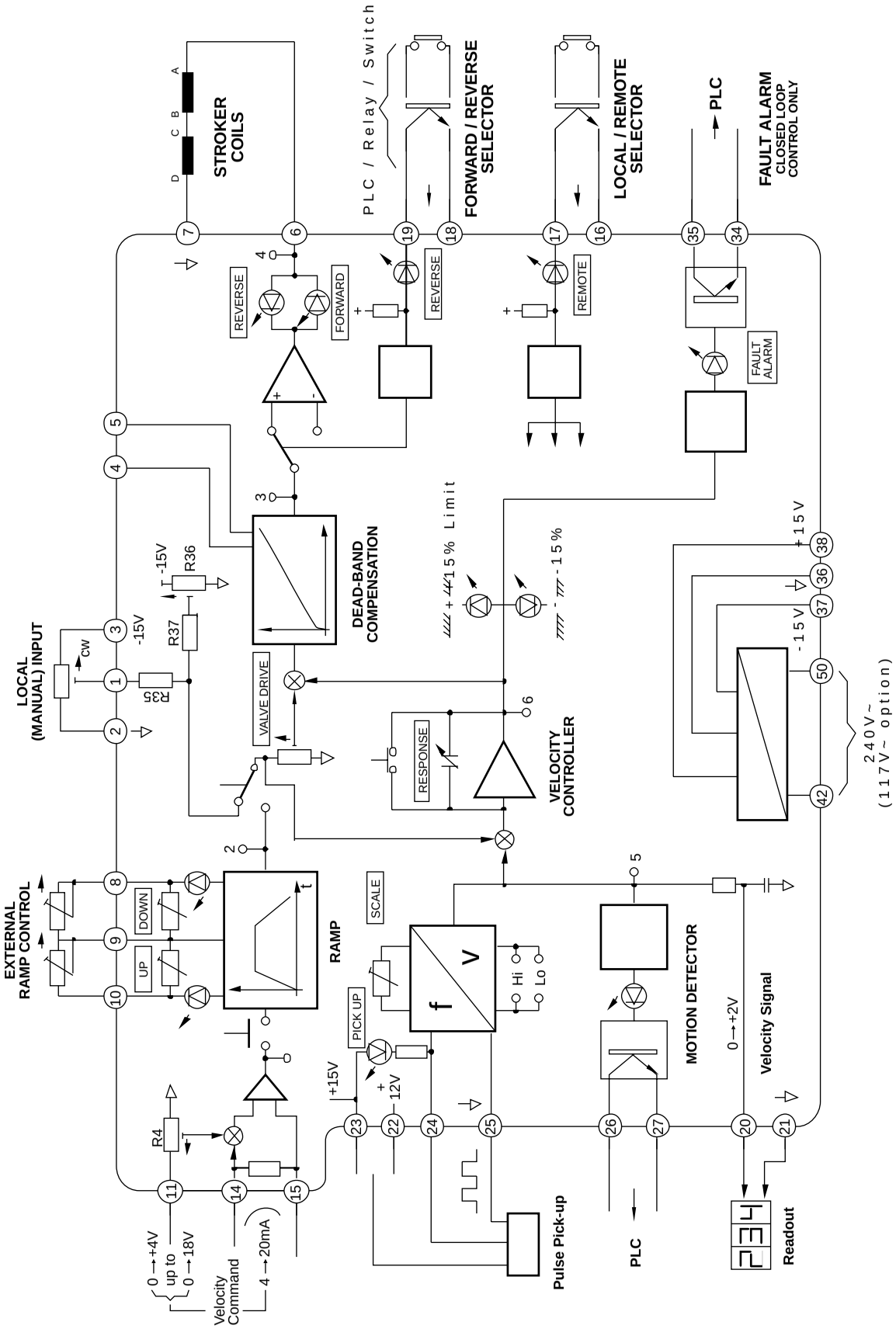


Features

To satisfy various control and safety requirements of the driven load, the following features are provided:

- interfaces directly with a **PLC**
- opto coupler and solid state switching is used for maximum reliability
- high level switched outputs for interfacing directly with standard industrial relays
- inbuilt power supply for 117VAC, 240VAC
- malfunction alarm indicates if the system is not holding command velocity and allows the appropriate action to be taken
- loss of feedback signal will not cause hardover condition
- motion detector provides indication to the PLC or control panel
- independent up/down ramp control either on board or external
- manual/auto select by PLC activated relay
- 0....5V analogue velocity signal
- easy to set up without any test equipment (i.e. no volt meter required) by means of inbuilt selector switches and LED's
- extensive use of LED's to indicate status and function selected

Block Diagram



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