

POSITION TRANSMITTER

THE POSITION TRANSMITTER provides a two-wire 4-20 mA signal that is proportional to actuator position. The transmitter's output is optically isolated from the electronics. Both an active and passive transmitter are available. A passive position transmitter is similar to other two-wire transmitters in that an external dc power source is required. An active two-wire transmitter with its own 24 Vdc power supply is available.

Also included with the transmitter is an Alarm Relay. Whenever the actuator is unable to follow the applied control signal, the Alarm Relay will change state (de-energize). See PM14 for additional details.

SPECIFICATIONS

Transmitter:

Accuracy:

Linear <0.25% of full stroke

Rotary <0.25% of 90° rotation

Resolution: <0.1% of full stroke or 90° rotation

Maximum External Load: 1000 ohms

Power Requirements:

Minimum Supply Voltage = 10 Vdc + .02 *(external load resistor)

Maximum Supply Voltage = 36 Vdc + .004 *(external load resistor)

Maximum external load resistor @ nominal 24 Vdc -700 ohms

Connection: Terminal strip on the auxiliary board

Alarm Relay:

Response: 1/2 second of any "fail to operate condition"

Alarm Contacts: SPDT

Rating: 1 amp @ 30 Vdc, 0.3 amp @ 120 Vac - resistive

Connection: Terminal strip on the auxiliary board