

| Technical Data | PTA-250 |
| :---: | :---: |
| Power supply | 24 VAC $\pm 15 \% 24$ VDC $\pm 15 \%$ |
| Power consumption | <1 W |
| Transformer sizing | 2 VA |
| Input |  |
| Isolation | optically isolated (when wired as such) |
| Type | normal or triac, jumper selectable |
| Trigger level | 12 to 24 VAC/VDC or dry contact to com |
| Time between trigger pulses | 12.5 milliseconds min |
| Impedance | VAC - $500 \Omega$, VDC - $10 \mathrm{k} \Omega$ |
| Pulse duration/resolution | four selectable ranges, in seconds of dry contact or SSR closure $\pm 40 \%$ of signal increment |
| Range 1 | 0.0235 to 6 seconds/in 0.0235 sec increments |
| Range 2 | 0.0196 to 5 seconds/in 0.0196 sec increments |
| Range 3 | 0.1 to 25.5 seconds/in 0.100 sec increments |
| Range 4 | 0.59 to 2.93 seconds/in in 0.0092 increments |
| Output |  |
| Voltage | 2 to 10 VDC |
| Current | 15 mA max |
| Accuracy | $\pm 2 \%$ |
| Electrical connection | wire terminals, 14 gauge max |
| Ambient temperature | $-20^{\circ} \mathrm{F}$ to $150^{\circ} \mathrm{F}\left[-30^{\circ} \mathrm{C}\right.$ to $\left.65^{\circ} \mathrm{C}\right]$ |
| Operating humidity | 5\% to 95\% non-condensing |
| Mounting | Snap-Track (provided) |
| Dimensions board | $23 / 16^{\prime \prime} \times 23 / 16^{\prime \prime} \times 9 / 16^{\prime \prime}$ |
| with Snap-Track | $23 / 8^{\prime \prime} \times 2$ 1/4" $\times 15 / 16^{\prime \prime}$ |
| Weight | 1.50 z |

## Wiring Diagram



[^0]Provide overload protection and disconnect as required.
2. Actuator and controller must have separate transformers.
3. Consult controller instruction data for more detailed installation information

4 To reverse control rotation, use the reversing switch.
5. The PTA-250 and actuator may be powered from the same transformer

## Application

The PTA-250 converts a single pulse-width modulated input to an analog, 2 to 10 VDC, output to modulate a Belimo -SR actuator. The PTA-250 is available for replacement of existing installations. The ...MFT product can replace 100\% of the PTA-250 applications, more effectively.

## Operation

A timed contact or solid state closure from the controlling microprocessor controller is converted to a linear analog output with 256 steps of resolution. The last output is held until the PTA-250 receives the end of the next pulsed output. The PTA-250's output will not wrap around if an excessively long input pulse is received. Four input pulse clock rates are jumper selectable. Normal/Triac input positions are also jumper selectable. The input signal can be optically isolated from the PTA-250 circuit and can accept either positive or negative polarity. A red LED indicator is provided to indicate that power is applied to the PTA-250 and that the microprocessor is functioning. A green LED indicator is provided to indicate the presence of a pulse from the controller.
NOTE: The onboard zero and span adjustments are not for field use.



[^0]:    1
    2
    2
    3
    4
    4
    4

