



LINEAR MOTION PRECISION POTENTIOMETERS

Optional Electrical Configurations

LINEARITY OR CONFORMITY

Unless otherwise indicated, the linearity shown on the data sheets is Independent Linearity. Terminal, Index Point, Absolute and other linearity or conformity types are available upon request.

LOAD COMPENSATION

Where desired, Potentiometers of the linear or non-linear type can be compensated during manufacture for errors introduced by electrical loading of the wiper, thereby eliminating such errors from the system.

TAPS

Taps can be provided at locations to suit. Unless otherwise indicated, tap location is defined in terms of voltage ratio, e.g., a center tap is defined as existing at 50% of the excitation voltage. Alternatively, a tap can be specified as being located so many inches from a given voltage output position, e.g., from the start of the Electrical Stroke where the output voltage ratio is zero. Unless otherwise indicated, the tap is located to the same accuracy as the Linearity tolerance.

Two (2) types of taps are available, depending upon the application or, more directly, upon the relative amount of current being drawn through it. Zero-Width taps are used as voltage reference points, where the current being drawn through the taps is less than 10% of the excitation current or 4mA, whichever is less. Zero-Width taps have a minimum resistance between the wiper and the tap equal to approximately 4% of the terminal resistance. Zero-Width taps have a minimum resistance between the wiper and the tap of approximately 2-5 Ohms, and have a minimum width of 0.015 inch, and a current carrying capability of 50mA.

OTHER TYPICAL SPECIAL ELECTRICAL CHARACTERISTICS

- (1) Brush-to-case insulation breakdown to 1500V
- (2) Doubling or tripling of power ratings
- (3) Minimum brush-to-case capacitance
- (4) Multiple outputs from single elements
- (5) Integral wing resistors of matched temperature coefficients
- (6) Integral electrical connections between elements in gang

-- An Electromotive Solutions Company --

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