## Standard Dimensions

## -Standard Model Nos.

| 13FLP12A | Stroke | 12 mm |
| :--- | :--- | :--- |
| 13FLP25A | Stroke | 25 mm |
| 13FLP50A | Stroke | 50 mm |
| 13FLP100A | Stroke | 100 mm |

## -General Specifications

| Model No. |  | 13FLP12A | 13FLP25A | 13FLP50A | 13FLP100A |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Standard Resistance Values |  | 500,1k,2k,5k,10k ( $\Omega$ ) | 500,1k,2k,5k,10k ( $\Omega$ ) | 1k,2k,5k,10k,20k ( $\Omega$ ) | 1k,2k,5k,10k,20k ( $\Omega$ ) |
| Total Resistance Tolerance |  | $\pm 20 \%$ (M) |  |  |  |
| Independent Linearity Tolerance | Standard Class | $\pm 2.0 \%$ | $\pm 1.5 \%$ | $\pm 1.0 \%$ | $\pm 0.7 \%$ |
|  | Precision Class | $\pm 1.0 \%$ | $\pm 0.7 \%$ | $\pm 0.5 \%$ | $\pm 0.3 \%$ |
| Resolution |  | Essentially Infinite |  |  |  |
| Output Smoothness |  | Below 0.1\% against input voltage |  |  |  |
| Contact Resistance Variation |  | Below 2\% C.R.V. |  |  |  |
| Power Rating |  | 0.2W | 0.4W | 0.7W | 1.2 W |
| Electrical Stroke |  | $12.7 \pm 0.5 \mathrm{~mm}$ | $25.4 \pm 0.5 \mathrm{~mm}$ | $50.8 \pm 0.5 \mathrm{~mm}$ | $101.6 \pm 0.5 \mathrm{~mm}$ |
| Mechanical Stroke (MS) |  | $12.7{ }_{0}^{+3} \mathrm{~mm}$ | $25.4{ }_{0}^{+3} \mathrm{~mm}$ | $50.8{ }_{0}^{+3} \mathrm{~mm}$ | $101.6{ }_{0}^{+3} \mathrm{~mm}$ |
| Insulation Resistance |  | Over $1,000 \mathrm{M} \Omega$ at 500 V .D.C. |  |  |  |
| Dielectric Strength |  | 1 minute at 500V.A.C. |  |  |  |
| Friction |  | Below 0.5 N (50gf) |  |  | Below 1.0N (100gf) |
| Stopper Strength |  | Approx. 20N (2kgf) |  |  |  |
| Resistance Temperature Coefficient |  | $\pm 400$ p.p.m. ${ }^{\circ} \mathrm{C}$ |  |  |  |
| Mass |  | Approx. 10g | Approx. 15g | Approx. 25g | Approx. 35g |

## -Special Specifications Available

Spring return device mounted on the shaft (Friction is referred as below table.), Special machining on the shaft, Wirewound resistive element type (13LP series).

In case of 13FLP series with spring return device, please note the following:
The spring return device is mounted on the outside shaft, of which dimensions are as the table.


| Model No. | L | Friction |
| :---: | :---: | :---: |
| S13FLP12A | $30 \sim 30+$ MS | $3.5 \mathrm{~N}(350 \mathrm{gf})$ |
| S13FLP25A | $35 \sim 35+\mathrm{MS}$ | $5 \mathrm{~N}(500 \mathrm{gf})$ |
| S13FLP50A | $40 \sim 40+\mathrm{MS}$ | $5 \mathrm{~N}(500 \mathrm{gf})$ |
| S13FLP100A | $50 \sim 50+\mathrm{MS}$ | 5 N (500gf) |

$\leftarrow$ PUSH Note: MS means Mechanical Stroke

