## DS,DP,DA SERIES

## DIMENSIONS

$\mathrm{DS}(\mathrm{R})$


DA


DP(L)


| $\begin{aligned} & \begin{array}{l} \mathrm{DP}-12 \\ \mathrm{DPL}-12 \end{array} \end{aligned}$ | 12 | 32.04[1.261] | 27.94[1.100] |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { pp - } 10 \\ & \text { ppL- } 10 \end{aligned}$ | 10 | 26.96[1.061] | 22.86[.900] |
| $\begin{aligned} & \text { Dp } \\ & \text { DPLL-09 } \end{aligned}$ | 9 | 24.42[.961] | 20.32[.800] |
| $\begin{aligned} & \text { pp -08 } \\ & \text { DPL- } \end{aligned}$ | 8 | 21.88[.861] | 17.78[.700] |
| $\begin{aligned} & \text { pp }-07 \\ & \text { ppL-07 } \end{aligned}$ | 7 | 19.34[.761] | 15.24[.600] |
| $\begin{aligned} & \text { DP }-06 \\ & \text { DPL-06 } \end{aligned}$ | 6 | 16.80[.661] | 12.70[.500] |
| $\begin{aligned} & \text { pr -005 } \\ & \text { DPL } \end{aligned}$ | 5 | 14.26[.561] | 10.18[.400] |
| $\begin{aligned} & \mathrm{pp}-04 \\ & \mathrm{ppL}^{2} \end{aligned}$ | 4 | 11.72[.461] | 7.62[.300] |
| $\begin{aligned} & \text { Dp } \begin{array}{c} -03 \\ \text { DPL- } 03 \end{array} \end{aligned}$ | 3 | 9.18[.361] | 5.08[.200] |
| $\begin{aligned} & \text { pp } \\ & \text { DPL-02 } \end{aligned}$ | 2 | 6.64[.261] | 2.54[.100] |
| PROD. NO. | $\begin{array}{\|l} \text { No. OF } \\ \text { Pos. } \end{array}$ | DIM. A | DIM. B |

[^0]
(2,3,4,5,6,7,8,9,10,12. POS AVAIL)

HOW TO ORDER


## SPECIFICATION

## $\triangle M E C H A N I C A L$

Mechanical Life: 2,000 operations per switch
Operation Force: 400gf max. (DP Series)
1,000gf max. (DS \& DA Series)
Stroke: 2.0 mm
Operation Temperature: $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
Storage Temperature: $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$

## $\triangle E L E C T R I C A L$

Electrical Life: 2,000 operations per switch 24VDC,25mA Non-Switching Rating: 100mA , 50VDC Switching Rating: 25mA, 24VDC
Contact Resistance: $50 \mathrm{~m} \Omega$ max. at initial
Insulation Resistance:\{at 500 VDC 100M $\Omega \mathrm{min}$.
Dielectric Strength: 500VAC / 1 minute
Circuit: SPST

## MATERIALS

-BASE: UL94V-0 PBT Thermoplastic Color: Black
COVER UL94V-0 PBT Thermoplastic
Color: Red, Black, Blue
ACTUATOR: UL94V-0 PBT High Thermoplastic Color: White
CONTACT: Phosphor bronze with gold plating over nickel
TOP SEAL: Polyester Film
POTTING MATERIAL: Epoxy

## SOLDERING PROCESS

$\triangle$ Keep all switch contacts in their "OFF" position for all operations.
$\triangle$ WAVE SOLDERING: Recommended temperature at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ max. 5 seconds for through hole type.
$\triangle$ HAND SOLDERING: Use a soldering iron of 30 watts, controlled at $350^{\circ} \mathrm{C}$ approximately 5 seconds.
$\triangle$ Make sure switch is in "OFF" position during soldering process, or it will decrease the operating force and meanwhile increase the contact resistance.
$\triangle$ Do not wash the switch body except top tape sealed type, which suitable for spray cleaning method from top of the $s / w$.



[^0]:    SCHEMATIC(TYP.)

