## PCB SWITCH SELECTION GUIDE

| ZP <br> - Metal bushing <br> - Single pole, double throw <br> - Solder lug or PC terminols <br> - Gold or silver plated contacts <br> - Epoxy seoled terminals | SP <br> - Plain or threoded bushing <br> - Washable snop-action momentary <br> pushbutton <br> - Single or double pole <br> - Silver or gold plated contocts <br> - Internally seoled bushing with epoxy seoled terminals | 9100/9200/9500 <br> - Plain or threoded bushing <br> - Horizontal or vertical mounting <br> - Single pole momentary with <br> several plunger options <br> - Gold plated brass contacts <br> - Epary and O-fing sealed | 18000 <br> - Single or double pole <br> - Snop action momentary <br> - Tactile feedbock <br> - Gold plated contacts <br> - Mony terminal, mounting and special options available |
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| TP <br> - Single or double pole <br> - Woshoble momentary pushbutton <br> with single piece case <br> - Severol contacts and terminal materials available <br> - Epoxy and O-ring seoled | SMT TP <br> - Surfoce mount, single pole <br> - Avoilable with or without positioning pins <br> - Reflow solderable <br> - Protected against electrostatic discharge (ESD) up to 10 KV <br> - Washoble: Epoxy and O-ring sealed |  | TL <br> - Single or double pole with gold or silver ploting <br> - Several lever and case styles to choose from <br> - Washable with single piece case: Epoxy and O-ring sealed |
| SMT TL <br> - Surface mount, single pole with standard gold plated brass contacts <br> - With or without positioning pins <br> - Reflow solderoble <br> - Protected against electrostatic discharge (ESD) up to 10 KV <br> - Washoble | S and SF <br> - Single or double pole <br> - Plain or insulated threoded bushing <br> - Gold or silver plated contacts <br> - Optional ESD protection <br> - Internally sealed bushing <br> - Epoxy sealed terminals | 21000 N <br> - Single or double pole <br> - Threaded or smooth bushings. <br> both with mounting plate <br> - Low profile - same height for single or double pole <br> - Silver or gold ploted brass contacts <br> - Epoxy sealed terminols | ZL <br> - Single pole and threaded bushing <br> - Solder lug and straight PC. terminals <br> - Gold plated or silver <br> plated contacts <br> - Epoxy seoled terminals |
| $7000$ <br> - 1,2,3 or 4 pole <br> - Several mounting configurations <br> - Wide variety of actuators <br> - Silver or gold plated contacts <br> with ratings up to 6 amps <br> - VDE, UL and CSA approved | S and SR <br> - Single or double pole <br> - Straight or right angle PC terminols <br> - Washable: epaxy seoled <br> - Silver or gold plated contacts <br> - Rocker or poddle actuators availoble in a variety of colors | TR <br> - Single or double pole <br> - Variety of contoct materials <br> - Straight, right angle or <br> wire-wrap PC terminals <br> - Woshoble: epoxy and O-ring seoled | SMT TR <br> - Surface mount, single pole <br> - With or without positioning pins <br> - Reflow solderable <br> - Protected against electrastotic <br> discharge (ESD) up to 10 KV <br> -Washoble |
| MBZ <br> - Movement differential $\leq 0.13 \mathrm{~mm}$ <br> - Available in NO, NC and change-over functions <br> - Solder lug or PC terminals <br> - Wide variety of actuators | MAB <br> - Movement differentiol $\leq 0.4 \mathrm{~mm}$ <br> - Available in NO, NC and change-over functions <br> - Solder lug, quick connect, PCB and screw terminals available <br> - Wide variety of actuator styles | MBB and MDB <br> - Movement differentiol $\leq 0.2 \mathrm{~mm}$ <br> - Avallable in NO, NC and change-over functions <br> - Solder lug, PC or quick <br> connect terminols <br> - Plunger, hinge lever or roller lever octuators available |  |
| G <br> - Single or double pole, <br> two or three positions <br> - Solder lug, stroight PC or <br> right angle terminals <br> - 6 different actuotor <br> lengths available <br> -Wide variety of contact materials | 25000N <br> - Single or double pole <br> - PC lerminols only <br> - Wide selection of actuator shapes and lengths <br> - UL. 1054 opproved | NK <br> - Single pole <br> - Straight or right angle PC terminals <br> - Stackable in $X$ and $Y$ directions <br> - Flushed and roised octuators positioning pins | TG <br> - Single pole <br> - Straight, right angle or <br> wire-wrop terminal options <br> - Seoled: Single piece cose, epoxy sealed terminals |
| SLB <br> - Single or double pole <br> - Positive spring looded ball <br> detent mechonism <br> - Vertical or right angle acluators <br> - Silver plated contacts and terminols | SMT TG <br> - Surfoce mount, single pole <br> - With or without positioning pins <br> - Reflow solderable <br> - Washable | M <br> $\cdot 1,2,4$ and 6 pole <br> - Bifurcated wiping contact design <br> - Verticol and right ongle actuotors <br> - Many octuotor styles and lengths available | MSS <br> - 1,2 \& 4 pole <br> - Bifurcoted wiping contoct design <br> - Gold or silver plated terminols <br> with reinforced mounting legs <br> - Epoxy sealed |
| IKE <br> - Even and odd pole numbers <br> - Overall height from PCB Through-hole $=3.2 \mathrm{~mm}$ $5 M T=3.8 \mathrm{~mm}$ <br> - End-stackable <br> - Self-cleoning wiping contacts <br> - Roised or recessed actuators available | IKD <br> - Self-cleaning contacts <br> - Gold ploted terminols <br> - IR and vapor phase reflow <br> soldering compatible <br> - Gull wing and <br> $J$ bend torminols <br> - Recessed actuators with top tope seol | NDS/DP/DA <br> - 2 to 12 positions <br> - Verrical, right angle or <br> piano styles <br> - Roised or recossed, long or <br> short otuators covailable <br> - Epaxy and top tope seoling option | IKH <br> - Low profile for very small PCB spoce requirements <br> - 1.27 mm terminal to terminal pitch <br> - Process compatiblo <br> - Washable with standard tope seal |
| PT65 <br> - Available in THR (through-hole reflow) <br> - $4,6,8,10 \& 16$ positions <br> - 4 different actuotor types <br> - Straight or right angle <br> terminals <br> - Washoble, solder and flux sealed | P36 <br> - Avoilable in THR (through-hole reflow) <br> - Ulira compoct with 10 or 16 positions <br> - 3 different actuator types <br> - Stroight or right angle <br> terminations <br> - Washable, solder and flux seoled | IKN <br> - Low profile with 2, 4, 6 and 8 positions <br> - Through-hole or SMT mounting <br> s.fron <br> - Overall height from PCB: <br> Through - hole $=4.0 \mathrm{~mm}$ <br> $\left[\begin{array}{lll}2 \\ 1,3 \\ 2\end{array}\right.$ <br> - Recessed <br> - Self-cleaning bifurcated sliding contacts |  |

## MEC SWITCHES AND CAPS

MULTIMEC 5 SERIES - 5E \& 5G

- Through-hole or SMT mounting
- IP67 Sealed

- Single pole / momentary
- NO or NC/NO


## UNIMEC

## - Through-hole mounting

- IP54 Sealed
- Max 250 mA/120V/9W
- Double pole
- Momentary or latching
- 8 contact functions

| 1SS <br> - Solid, round cap <br> - $\varnothing 6.5 \mathrm{~mm}$ <br> - 9 standard height options <br> - 7 standard color choices | IIS <br> - Fully-illuminated <br> - $\varnothing 6.5 \mathrm{~mm}$ <br> - 7 stondard height options <br> - Transparent or frosted white | ILS <br> - Illuminated, with lens <br> - $\varnothing 6.5 \mathrm{~mm}$ <br> - 5 standard height options <br> - Multiple colors available <br> - 5 lens colors options | 1KS <br> - Solid or illuminated <br> - Square, flat cap <br> $-14.3 \mathrm{~mm} \times 14.3 \mathrm{~mm}$, $h=19.1 \mathrm{~mm}$ <br> - Multiple colors and legends available |
| :---: | :---: | :---: | :---: |
| 1KBS <br> - Illuminated <br> - Convex square cop <br> - $14.3 \mathrm{~mm} \times 14.3 \mathrm{~mm}$, $\mathrm{h}=20.2 \mathrm{~mm}$ | IKCS <br> - llluminated <br> - Concave square cap <br> - $14.3 \mathrm{~mm} \times 14.3 \mathrm{~mm}$, $\mathrm{h}=20.1 \mathrm{~mm}$ | ITS <br> - Panel seoled <br> - $10.6 \mathrm{~mm} \times 10.6 \mathrm{~mm}$ <br> - Rounded top surface <br> - Solid or illuminated <br> - 7 standard color options for non-illuminated oodd 1TW for IP67 sealing | IVS <br> - Panel seoled ${ }^{*}$ <br> - $10.4 \mathrm{~mm} \times 13.25 \mathrm{~mm}$ <br> - Rounded top surface <br> - Solid or illuminoted <br> - 7 standard color options for non-illuminated *add IVW for IP65 sealing |
| IUS <br> - Panel sealed <br> - $\varnothing 10.6 \mathrm{~mm}$ <br> - Rounded top surface <br> - Solid or illuminated <br> - 7 standard color options for non-illuminated *odd 1UW for IP67 seoling | 1DS <br> - Solid or illuminated, round cap <br> - $\varnothing 9.6 \mathrm{~mm}, \mathrm{~h}=14.9 \mathrm{~mm}$ <br> - 18 color options <br> - Standard and custom legends available | IES <br> - Illuminated with lens <br> - $\varnothing 9.6 \mathrm{~mm}, \mathrm{~h}=14.9 \mathrm{~mm}$ <br> - 7 standard color options <br> - 5 lens color options | IFS <br> - Illuminated with lens <br> - $\varnothing 9.6 \mathrm{~mm}, \mathrm{~h}=14.9 \mathrm{~mm}$ <br> - 5 lens color options <br> - Standard and custom legends available <br> - 7 standard color options |
| 1GAS <br> - Solid or illuminated <br> - Flat, round cops perfect for foil overlay <br> - $\varnothing 11 \mathrm{~mm}, \mathrm{~h}=12.5 \mathrm{~mm}$ <br> - 7 standard color options for solid | 1GCS <br> - Solid or illuminated <br> - Flat, round caps perfect for foil overlay <br> - $015 \mathrm{~mm}, \mathrm{~h}=12.5 \mathrm{~mm}$ <br> - 7 standard color options for solid | 1YS for 5E switch only <br> - Illuminated by <br> boord chip LEDs <br> - Square cap designed for foil overloy <br> - $15 \mathrm{~mm} \times 15 \mathrm{~mm}$, $h=12.5 \mathrm{~mm}$ | 1JS <br> - Solid or illuminated <br> - Low, flat caps perfect for foil overlay <br> - $09.6 \mathrm{~mm}, \mathrm{~h}=10.4 \mathrm{~mm}$ <br> - 7 standard color options for solid |
| 1XS <br> - Solid or illuminated <br> - Rectangular cap <br> $\cdot 7.4 \mathrm{~mm} \times 9.4 \mathrm{~mm}$, $\mathrm{h}=18.5 \mathrm{~mm}$ <br> - 18 standard solid color options | IPS <br> - Solid or illuminated <br> - Rectangular, <br> concave cap <br> - $12.5 \mathrm{~mm} \times 6.5 \mathrm{~mm}$, <br> $\mathrm{h}=15.7 \mathrm{~mm}$ <br> - Multiple color options | 1QS <br> - Illuminated, with oblong lens <br> - Rectangular, concave cap <br> $-12.5 \mathrm{~mm} \times 6.5 \mathrm{~mm}$, $h=15.7 \mathrm{~mm}$ <br> - Multiple color options | 1RS <br> - Illuminated, with round lens <br> - Rectangular, <br> - $12.5 \mathrm{~mm} \times 6.5 \mathrm{~mm}$, $\mathrm{h}=15.7 \mathrm{~mm}$ <br> - Multiple color options |
| 1A/1H/1M/1ZA <br> - Solid or illuminated <br> - Multiple color \& legend options <br> - Rectangular, rocker-style cop <br> - $1 \mathrm{~A} / 1 \mathrm{H}-12.5 \mathrm{~mm} \times 10.1 \mathrm{~mm}, \mathrm{~h}=12.2 \mathrm{~mm}$ <br> - $1 \mathrm{M}-25.0 \mathrm{~mm} \times 10.1 \mathrm{~mm}, \mathrm{~h}=12.2 \mathrm{~mm}$ <br> $\cdot 1 Z A-18.65 \mathrm{~mm} \times 10.1 \mathrm{~mm}, \mathrm{~h}=12.2 \mathrm{~mm}$ | $1 B / 1 C+2 C / 2 D$ <br> - Solid or illuminated <br> - Rectangular, rocker-style cop <br> - $15.1 \mathrm{~mm} \times 15.1 \mathrm{~mm}$, $h=12.2 \mathrm{~mm}$ <br> - Multiple color \& legend options | 1ZW CONTROLMEC <br> - Single cap panel sealed for display navigation <br> - Solid or illuminated <br> - $\varnothing 29.5 \mathrm{~mm}, \mathrm{~h}=12.3 \mathrm{~mm}$ <br> - 8 solid cap color options <br> - Standard \& custom legend codes available | IZ CONTROLMEC <br> - Single cap for display navi <br> - Solid or illuminated <br> - $\varnothing 29.5 \mathrm{~mm}, \mathrm{~h}=12.0 \mathrm{~mm}$ <br> - 8 solid cop color options <br> - Standard \& custom legends available |
| 1ZB/IZCS NAVIMEC <br> - Designed for display navigation <br> - Solid or illuminated <br> - $128=90^{\circ}, R=17.5 \mathrm{~mm}$ $\mathrm{h}=12.2 \mathrm{~mm}$ <br> - 12CS- $\varnothing 14.3 \mathrm{~mm}$, $h=11.7 \mathrm{~mm}$ <br> - Standard \& custom logends available | INS <br> - Solid or illuminated <br> - Teardrop-shoped cap <br> $\cdot 13.3 \mathrm{~mm} \times 11.0 \mathrm{~mm}$, $\mathrm{h}=14.9 \mathrm{~mm}$ <br> - Multiple solid \& illuminoted colors available | IWAS/IWPS <br> - Solid or illuminated <br> - Ellipse-shoped, <br> convex or concove <br> - $6.5 \mathrm{~mm} \times 12.5 \mathrm{~mm}$, <br> $\mathrm{h}=15.0 \mathrm{~mm}-15.7 \mathrm{~mm}$ <br> - Multiple solid colors available | IWDS <br> - Solid or illuminoted <br> - Ellipse-shoped, convex top cap <br> $-8.0 \mathrm{~mm} \times 15.3 \mathrm{~mm}$, $\mathrm{h}=15.0 \mathrm{~mm}$ <br> - Multiple solid colors availoble |
| 16300 UNIMEC <br> - Rectangular solid cap \& square solid or illuminated bezel <br> - Cop: $6.1 \mathrm{~mm} \times 12.4 \mathrm{~mm}$ <br> - Bezel: 15.1 mmx 15.1 mm , <br> $\mathrm{h}=16.0 \mathrm{~mm}-20.5 \mathrm{~mm}$ <br> - Several color options <br> - Standard keycap legends available | 16700 UNIMEC <br> - Square cap <br> - $14.9 \mathrm{~mm} \times 14.9 \mathrm{~mm}$, $h=14.6 \mathrm{~mm}$ <br> - Several color options <br> - Standard keycap legends available | 10R/10RF/10RM <br> - Large round cop <br> - Optional metal legend <br> - Solid or illuminated <br> - $030 \mathrm{~mm}, \mathrm{~h}=11 \mathrm{~mm}$ <br> - 7 standard solid color options | 10Q/10QRM <br> - Large square cap <br> - Optional metal legend <br> - Solid or illuminated <br> - $22 \mathrm{~mm} \times 22 \mathrm{~mm}$, <br> $\mathrm{h}=11 \mathrm{~mm}$ <br> - 7 standard solid color options |

