



PCB & MEC SWITCH SELECTION GUIDE

ZP

- Metal bushing
- Single pole, double throw
- Solder lug or PC terminals
- Gold or silver plated contacts
- Epoxy sealed terminals



SP

- Plain or threaded bushing
- Washable snap-action momentary pushbutton
- Single or double pole
- Silver or gold plated contacts
- Internally sealed bushing with epoxy sealed terminals



9100/9200/9500

- Plain or threaded bushing
- Horizontal or vertical mounting
- Single pole momentary with several plunger options
- Gold plated brass contacts
- Epoxy and O-ring sealed



18000

- Single or double pole
- Snap action momentary
- Tactile feedback
- Gold plated contacts
- Many terminal, mounting and special options available



SMT TP

- Surface mount, single pole
- Available with or without positioning pins
- Reflow solderable
- Protected against electrostatic discharge (ESD) up to 10KV
- Washable: Epoxy and O-ring sealed



TP

- Single or double pole
- Washable momentary pushbutton with single piece case
- Several contacts and terminal materials available
- Epoxy and O-ring sealed



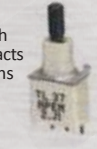
TL

- Single or double pole with gold or silver plating
- Several lever and case styles to choose from
- Washable with single piece case: Epoxy and O-ring sealed



SMT TL

- Surface mount, single pole with standard gold plated brass contacts
- With or without positioning pins
- Reflow solderable
- Protected against electrostatic discharge (ESD) up to 10KV
- Washable



S and SF

- Single or double pole
- Plain or insulated threaded bushing
- Gold or silver plated contact
- Optional ESD protection
- Internally sealed bushing
- Epoxy sealed terminals



21000N

- Single or double pole
- Threaded or smooth bushings, both with mounting plate
- Low profile – same height for single or double pole
- Silver or gold plated brass contacts
- Epoxy sealed terminals



ZL

- Single pole and threaded bushing
- Solder lug and straight PC terminals
- Gold plated or silver plated contacts
- Epoxy sealed terminals



7000

- 1, 2, 3 or 4 pole
- Several mounting configurations
- Wide variety of actuators
- Silver or gold plated contacts with ratings up to 6 amps
- VDE, UL and CSA approved



S and SR

- Single or double pole
- Straight or right angle PC terminals
- Washable: epoxy sealed
- Silver or gold plated contacts
- Rocker or paddle actuators available in a variety of colors



TR

- Single or double pole
- Variety of contact materials
- Straight, right angle or wire-wrap PC terminals
- Washable: epoxy and O-ring sealed



SMT TR

- Surface mount, single pole
- With or without positioning pins
- Reflow solderable
- Protected against electrostatic discharge (ESD) up to 10KV
- Washable



MBZ

- Movement differential $\leq 0.13\text{mm}$
- Available in NO, NC and change-over functions
- Solder lug or PC terminals
- Wide variety of actuators



MAB

- Movement differential $\leq 0.4\text{mm}$
- Available in NO, NC and change-over functions
- Solder lug, quick connect, PCB and screw terminals available
- Wide variety of actuator styles



MBB and MDB

- Movement differential $\leq 0.2\text{mm}$
- Available in NO, NC and change-over functions
- Solder lug, PC or quick connect terminals
- Plunger, hinge lever or roller lever actuators available



G

- Single or double pole, 2 or 3 positions
- Solder lug, straight PC or right angle terminals
- 6 different actuator length available
- Wide variety of contact materials



25000N

- Single or double pole
- PC terminals only
- Wide selection of actuator shapes and lengths
- UL 1054 approved



NK

- Single pole
- Straight or right angle PC terminals
- Stackable in X and Y directions
- Flushed and raised actuators positioning pins



TG

- Single pole
- Straight, right angle or wire-wrap terminal options
- Sealed: Single piece case, epoxy sealed terminals



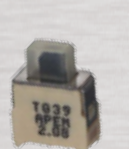
SLB

- Single or double pole
- Positive spring loaded ball detent mechanism
- Vertical or right angle actuators
- Silver plated contacts and terminals



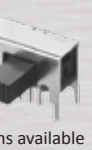
SMT TG

- Surface mount, single pole
- With or without positioning pins
- Reflow solderable
- Washable



M

- 1,2,4 and 6 pole
- Bifurcated wiping contact design
- Vertical and right angle actuators
- Many actuator styles and lengths available



MSS

- 1, 2 & 4 pole
- Bifurcated wiping contact design
- Gold or silver plated terminals with reinforced mounting legs
- Epoxy sealed



IKE

- Even and odd pole numbers
- Overall height from PCB: Through-hole = 3.2mm, SMT = 3.8mm
- End-stackable
- Self-cleaning wiping contacts
- Raised or recessed actuators available



IKD

- Self-cleaning contacts
- Gold plated terminals
- IR and vapor phase reflow soldering compatible
- Gull wing and J bend terminals
- Recessed actuators with top tape seal



NDS/DP/DA

- 2 to 12 positions
- Vertical, right angle or piano styles
- Raised or recessed, long or short actuators available
- Epoxy and top tape sealing options



IKH

- Low profile for very small PCB space requirements
- 1.27mm terminal to terminal pitch
- Process compatible
- Washable with standard tape seal



IKN

- Low profile with 2, 4, 6 and 8 positions
- Through-hole or SMT mounting
- Overall height from PCB: Through-hole = 4.0mm, SMT = 2.85mm
- Recessed actuator with positive detents
- Self-cleaning bifurcated sliding contacts



P36

- Available in THR (through-hole reflow)
- Ultra compact with 10 or 16 positions
- 3 different actuator types
- Straight or right angle terminations
- Washable, solder and flux sealed



PT65

- Available in THR (through-hole reflow)
- 4, 6, 8, 10 & 16 positions
- 4 different actuator types
- Straight or right angle terminals
- Washable, solder and flux sealed



UNIMEC

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



MULTIMEC 3 series - 3C, 3E, 3F

- Through-hole or SMT mounting
- IP67 Sealed
- 50mA/24VDC
- 10,000,000 operations
- Single pole / momentary
- Normally open function



MULTIMEC 5 series - 5E & 5G

- Through-hole or SMT mounting
- IP67 Sealed
- 50mA/24VDC
- 10,000,000 operations
- Single pole / momentary
- NO or NC/NO function



ILLUMEC

- Illuminated switch
- Through-hole or SMT
- 50mA/24VDC
- 10,000,000 operations
- Single pole / momentary
- Normally open functions



ULTRAMEC

- Low profile
- J-bend
- IP67 Sealed
- 0.5 - 50mA/24VDC
- Single pole / momentary
- 3,000,000 operations





MEC SWITCH CAP SELECTION GUIDE

<p>1SS</p> <ul style="list-style-type: none"> • Solid, round cap • Ø6.5mm • Variable height options • 7 standard color options • For 5E 	<p>1IS</p> <ul style="list-style-type: none"> • Fully-illuminated • Ø6.5mm • Variable height options • Transparent or frosted white 	<p>1LS</p> <ul style="list-style-type: none"> • Illuminated, with lens • Ø6.5mm • Variable height options • 9 standard colors available • 5 lens colors options 	<p>1NS</p> <ul style="list-style-type: none"> • Solid or illuminated • Teardrop-shaped cap • 13.3mm x 11.0mm, h=14.9mm • 3 standard colors available 
<p>1JS</p> <ul style="list-style-type: none"> • Solid or illuminated • Low, flat caps perfect for using under overlay • Ø9.6mm, h=10.4mm • 9 standard color options 	<p>1WAS/1WPS</p> <ul style="list-style-type: none"> • Solid or illuminated • Ellipse-shaped, convex or concave • 6.5mm x 12.5mm, h=15.0mm/15.7mm • 10 standard colors available 	<p>1WDS</p> <ul style="list-style-type: none"> • Solid or illuminated • Ellipse-shaped, convex top cap • 8.0mm x 15.2mm, h=14.9mm • 10 standard colors available 	<p>1VS</p> <ul style="list-style-type: none"> • Panel sealed* • 10.4mm x 13.25mm • Rounded top surface • Solid or illuminated • 5 standard color options <p>*add 1VW for IP65 sealing</p> 
<p>1US</p> <ul style="list-style-type: none"> • Panel sealed* • Ø10.6mm, h=14.9mm • Rounded top surface • Solid or illuminated • 5 standard color options <p>*add 1UW for IP67 sealing</p> 	<p>1DS</p> <ul style="list-style-type: none"> • Solid or illuminated, round cap, chamfer edge • Ø9.6mm, h=14.9mm • 18 color options • Standard legends available 	<p>1ES</p> <ul style="list-style-type: none"> • Illuminated with lens • Ø9.6mm, h=14.9mm • 7 standard color options • 5 lens color options 	<p>1FS</p> <ul style="list-style-type: none"> • Illuminated with lens • Ø9.6mm, h=14.9mm • 7 standard color options • 5 lens color options • Standard legends available 
<p>10G</p> <ul style="list-style-type: none"> • Concave top • Anti-rotation cutout • Ø11.5mm, h=4.9mm • for 6C / 3C 	<p>1ZCS</p> <ul style="list-style-type: none"> • Rounded top • Ø14.3mm, h=11.7mm • 11 standard color options • Standard legends available 	<p>1GAS</p> <ul style="list-style-type: none"> • Solid or illuminated • Flat, round caps perfect for using under overlay • Ø11mm, h=12.5mm • 9 standard color options 	<p>1GCS</p> <ul style="list-style-type: none"> • Solid or illuminated • Flat, round caps perfect for using under overlay • Ø15mm, h=12.5mm • 9 standard color options 
<p>1Z CONTROLMEC</p> <ul style="list-style-type: none"> • Single cap for display navigation • Solid or illuminated • Ø29.5mm, h=12.0mm • 6 standard color options • Standard legends available 	<p>1ZW CONTROLMEC</p> <ul style="list-style-type: none"> • Panel sealed up to IP67 • Single cap for navigation • Solid or illuminated • Ø29.5mm, h=12.3mm • 6 cap color options • Standard legends available 	<p>NAVIMEC</p> <ul style="list-style-type: none"> • Designed for display navigation • Ø34.25mm h=12.2mm • 11 standard cap colors • Standard legends available 	<p>10R/10RF</p> <ul style="list-style-type: none"> • Large round or flat cap • Solid or illuminated • Ø30mm, h=11mm • 8 standard color options • Standard legends available 
<p>AQUAMEC</p> <ul style="list-style-type: none"> • Panel sealed up to IP67 • Ø10.6mm • Total h=24.2 - 27.2mm • From front panel: h=14.3mm 	<p>VARIMEC Round</p> <ul style="list-style-type: none"> • Solid or illuminated • Square, flat cap • 8 standard colors available • 14.3mm x 14.3mm, h=19.1mm 	<p>VARIMEC Square</p> <ul style="list-style-type: none"> • Solid or illuminated • Square, flat cap • 8 standard colors available • 14.3mm x 14.3mm, h=19.1mm 	<p>10RM</p> <ul style="list-style-type: none"> • Large round or flat cap • Metal plate front • Solid or illuminated • Ø30mm, h=11mm • Frosted white • Standard legends available 
<p>1KBS / 1KCS</p> <ul style="list-style-type: none"> • Illuminated • Convex or concave cap • 14.3mm x 14.3mm, h=20.2mm / 20.1mm • Bezel 2k option • Transparent lid, frosted white lens 	<p>1TS</p> <ul style="list-style-type: none"> • Panel sealed* • 10.6mm x 10.6mm • Rounded top surface • Solid or illuminated • 5 standard color options <p>*add 1TW for IP67 sealing</p> 	<p>1KS</p> <ul style="list-style-type: none"> • Solid or illuminated • Square, flat cap • 14.3mm x 14.3mm, h=19.1mm • 8 standard colors available 	<p>10Q</p> <ul style="list-style-type: none"> • Large square cap • Solid or illuminated • 22mm x 22mm, h=11mm • 8 standard color options • Standard legends available 
<p>1XS</p> <ul style="list-style-type: none"> • Solid or illuminated • Rectangular cap, rounded edges • 7.4mm x 9.4mm, h=18.5mm • 9 standard color options 	<p>1PS</p> <ul style="list-style-type: none"> • Solid or illuminated • Rectangular, concave cap • 12.5mm x 6.5mm, h=15.7mm • 9 standard color options 	<p>1QS / 1RS</p> <ul style="list-style-type: none"> • Illuminated • Rectangular or rounded lens • Concave cap • 12.5mm x 6.5mm, h=15.7mm • 3 standard color options 	<p>10QM</p> <ul style="list-style-type: none"> • Large square cap • Metal plate front • Solid or illuminated • 12.5mm x 6.5mm, h=15.7mm • Frosted white • Standard legends available 
<p>1A/1H/1M/1ZA</p> <ul style="list-style-type: none"> • Solid or illuminated • Multiple color & legend options • Rectangular, rocker-style cap • 1A/1H=12.5mm x 10.1mm, h=12.2mm • 1M=25.0mm x 10.1mm, h=12.2mm • 1ZA=18.65mm x 10.1mm, h=12.2mm 	<p>1B + 2C/2D</p> <ul style="list-style-type: none"> • Rocker-action cap • 15.1mm x 15.1mm, h=12.2mm • 8 standard color options • Standard legends available 	<p>1C + 2C/2D</p> <ul style="list-style-type: none"> • Rocker-style cap • 15.1mm x 15.1mm, h=12.2mm • 3 standard color options • 5 standard lens colors 	<p>1YS</p> <ul style="list-style-type: none"> • Illuminated by chip LEDs on PCB • For use under overlay • 15mm x 15mm, h=12.5mm • For 5E 
<p>16300 UNIMEC</p> <ul style="list-style-type: none"> • Rounded top • Various bezel options • 6.0mm x 12.3mm • h=16.0mm or 20.5mm • 7 standard color options • Standard legends available 	<p>16700 UNIMEC</p> <ul style="list-style-type: none"> • Concave top • 14.9mm x 14.9mm, h=14.6mm • 7 standard color options • Standard legends available 	<p>2SS</p> <ul style="list-style-type: none"> • Extender • Black • h=5.0 - 10.0mm • For 5G caps 	<p>ROCKERMEC</p> <ul style="list-style-type: none"> • Panel sealed to IP67 • 28.0mm x 10.6mm h=12.15mm • 4 standard color options • Standard legends available • For 5E/3C 