

PRODUCT MATRIX

Providing premier electromechanical switches
and integrated solutions since 1979.

ENERGIZING INNOVATION

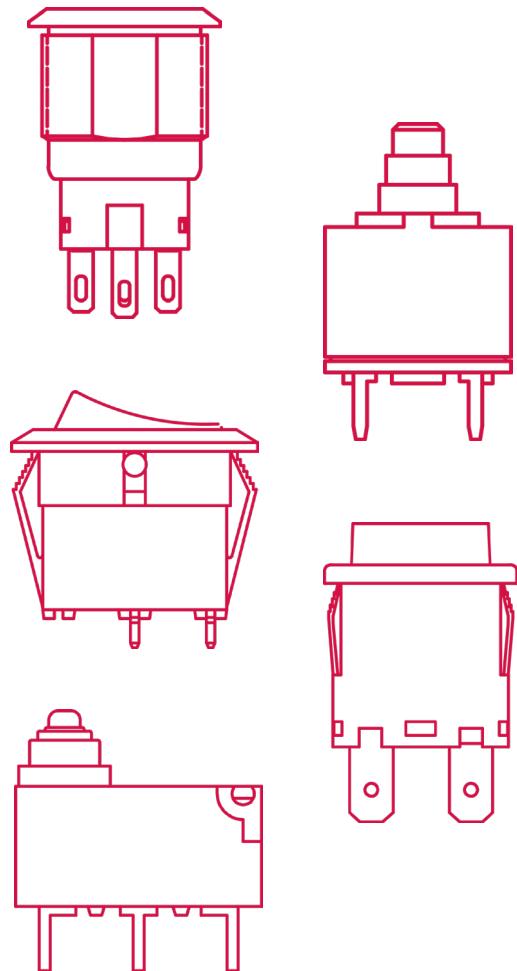
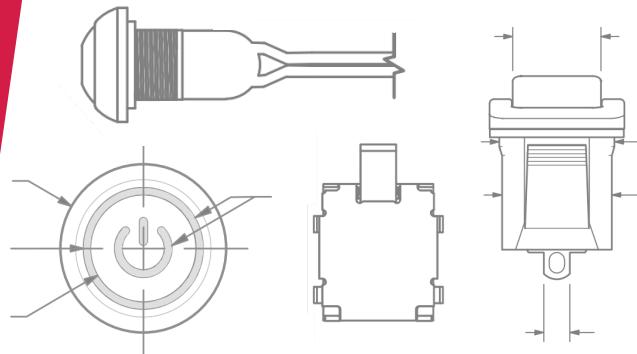
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NEW PRODUCT INTRODUCTIONS



E-Switch is committed to responding to technological advancements and customer demand with the regular introduction of new products.

We've recently launched the TL3220 Series (RGB illuminated, SMT tact), LS25 Series (high current snap action switch), RP8700 Series (IP68, LED illuminated pushbutton) and RCA1913 Series (sealed, power rated rocker switch).

Additionally, E-Switch has a new line of connectors — the "Big Red" ECM Series — for building custom wire assemblies tailored to your exact design specifications.

Here at E-Switch, we energize innovation all the way from prototyping to production!



NEW PRODUCT INTRODUCTIONS

E-SWITCH®	ELECTRICAL RATINGS	CUTOUT	FUNCTIONS AVAILABLE	TERMINAL OPTIONS	ACTUATOR OPTIONS	MATERIAL OPTIONS	ILLUMINATION	IP RATING	
	PVHC7	20A @ 250VAC	22mm	SPST (Momentary or Latching)	Solder Lug	Stainless Steel Black Anodized	Stainless Steel Black Anodized	Ring Ring & Power Symbol White, Red, Green, Blue, Yellow	IP67
	TD1260	1mA @ 5VDC	NA	SPST-NO SPST-NC	J-Lead	Angled Lever	Silver Plated	✗	✗
	KJE32	20(20)A 250VAC 1E5 T85/55 TUV(EN61058), 20(20)A 127VAC 1E5 T85/55 TUV(EN61058), 20(20)A 127VAC 1E5 T85/55 UL(EN61058), 25.1A 60VDC 10E4 T85/55 UL(EN61058)	46mm x 22mm x 2.5mm	2NO, 2NO w/ remote trip, NO + NC w/ remote trip, NO + NC, 2NO + NC, 2NO + NC w/ remote trip	Silver Plated Brass	Four Different Actuator Marking Styles	✗	✗	IP55
	RRS20	16(8)A, 125/250VAC ~T55 (cURs,NEC15) 10(4)A, 125/250VAC ~T55 (cURs,NEC15) 16A, 30VDC T55 (cURs,NEC15)	20mm	SPST SPDT	Quick Connect - 0.187" Solder Wire Leads 300mm	6 Actuator Colors 6 Marking Options	Base Material: Nylon 66 UL94V-2 Actuator: PC/Nylon66 UL94V-2	Full Actuator: White, Orange, Green, Red, Blue	IP68 from Panel
	RCA1913	16(8)A, 125/250VAC 10(4)A, 125/250VAC 16A, 30VDC	19mm x 13mm	SPST SPDT	Quick Connect, Solder, PC Pin, PC Pin Right Angle, Wire Leads	Black, Red, or White Actuator 6 Marking Options	Base Material: Nylon 66 UL94V-2 Actuator: PC/Nylon66 UL94V-2	✗	Full IP68
	RP8700	125mA, 125VAC; 200mA, 50VDC	13.6mm	SPST; Off-(On) or On-(Off)	Solder Lug PC Pin Wired w/ Connector	Round, high, or domed button; many color options	Nylon housing and actuator	Dot Illumination White, Red, Yellow, Green, Blue, Red/Green	IP68
	LS25	125/250VAC @ 25A	NA	SPDT	Solder Lug Quick Connect (0.187" or 0.250")	Round Pin Plunger, Lever Straight, Lever Simulated Roller, Lever Roller	✗	✗	IP40
	TL3220	12 VDC @ 50mA	NA	SPST	SMT (Gull Wing)	✗	Gold Flash over Phosphor Bronze Contacts	RGB	IP5X

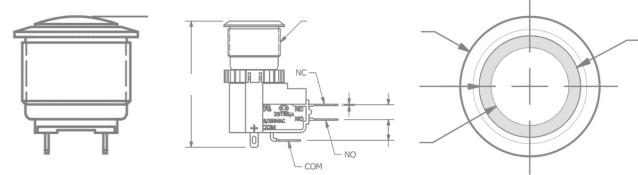
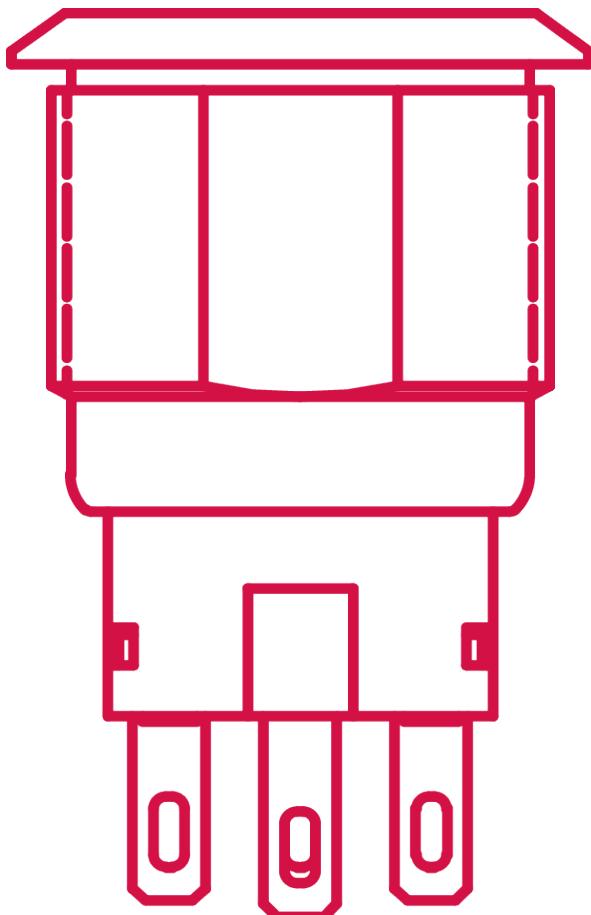
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ANTI-VANDAL



E-Switch offers the largest selection of Anti-Vandal switches in the marketplace.

Sizes range from 6mm to 40mm in diameter, depending on the switch series. Anti-Vandals offer an aesthetically pleasing switch with quality housing materials and multi-illumination options in lens style (ring, dot, power symbol, ring/power symbol combo), as well as numerous choices in LED colors (including bi-color and RGB). An additional option is to order the switches pre-wired.

E-Switch's Anti-Vandal switches can be found in public kiosks, security controls, appliances, medical equipment and transport vehicles.



ANTI-VANDAL | PART 1

E-SWITCH®		ELECTRICAL RATINGS	CUTOUT / PANEL DEPTH	FUNCTIONS AVAILABLE	TERMINAL OPTIONS	ACTUATOR OPTIONS	MATERIAL OPTIONS	ILLUMINATION	IP RATING	WIRE OPTIONS
	PV0	2A, 36VDC	Diameter: 12mm Max. Depth: 6mm	1 Pole: Off-(On)	Solder Lug	High	Stainless Steel Black Anodized	Dot Ring	IP65	✗
	PV1	2A, 36VDC	Diameter: 19mm Max. Depth: 8mm	1 Pole: Off-(On)	Screw Solder Lug	Domed Flat High	Black Anodized Gold Plated Brass Nickel Plated Brass Stainless Steel	N/A	IP65	✗
	PV2	2A, 36VDC	Diameter: 16mm Max. Depth: 6mm	1 Pole: Off-(On)	Screw Solder Lug	Domed Flat High	Black Anodized Gold Plated Brass Nickel Plated Brass Stainless Steel	N/A	IP65	✗
	PV3	2A, 48VDC	Diameter: 16mm Max. Depth: 8mm	1 Pole: On-(On) 2 Pole: On-(On)	Solder Lug	Flat Guarded High	Black Anodized Gold Plated Brass Nickel Plated Brass Stainless Steel	Bi-Color Dot Ring	IP40 or IP67	●
	PV4	2A, 24VDC .7A 125VAC (cURus)	Diameter: 19mm Max. Depth: 11mm	1 Pole: On-On On-(On) 1P Off-(On) + 1P On-(Off) 2 Pole: On-On On-(On)	Screw Solder Lug	Flat High	Black Anodized Stainless Steel	RGB Bi-Color Dot Ring Arrow	IP65	●
	PV5	2A, 36VDC	Diameter: 12mm Max. Depth: 5mm	1 Pole: Off-(On)	Screw Solder Lug	Raised Domed	Black Anodized Nickel Plated Brass Stainless Steel	N/A	IP65	✗
	PV6	2A, 48VDC	Diameter: 16mm Max. Depth: 10mm	1 Pole: Off-(On)	Solder Lug	Flat High	Black Anodized Nickel Plated Brass Stainless Steel	RGB Bi-Color Dot Ring	IP65	✗
	PV7	2A, 48VDC	Diameter: 22mm Max. Depth: 8mm (Momentary), 12mm (Maintained)	1 Pole: 1P Off-On + 1P On-Off 1P Off-(On) + 1P On-(Off)	Solder Lug	Flat	Black Anodized Nickel Plated Brass Stainless Steel	RGB Bi-Color Dot Ring	IP65	●
	PV8	2A, 48VDC	Diameter: 25mm Max. Depth: 10mm (Momentary), 12mm (Maintained)	1 Pole: 1P Off-On + 1P On-Off 1P Off-(On) + 1P On-(Off) 2 Pole: 2P Off-On + 2P On-Off 2P Off-(On) + 2P On-(Off)	Solder Lug	Flat	Black Anodized Nickel Plated Brass Stainless Steel	Bi-Color Dot Ring	IP65	●
	PV9	2A, 48VDC	Diameter: 28mm Max. Depth: 10mm	1 Pole: 1P Off-On + 1P On-Off 1P Off-(On) + 1P On-(Off) 2 Pole: 2P Off-On + 2P On-Off 2P Off-(On) + 2P On-(Off)	Solder Lug	Flat	Nickel Plated Brass Stainless Steel	Bi-Color Dot Ring	IP66	●
	PV10	2A, 48VDC	Diameter: 40mm Max. Depth: 5mm	1 Pole: 1P Off-On + 1P On-Off 1P Off-(On) + 1P On-(Off) 2 Pole: 2P Off-On + 2P On-Off 2P Off-(On) + 2P On-(Off)	Solder Lug	Flat	Stainless Steel	Bi-Color Dot Ring	IP65	●

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ANTI-VANDAL | PART 2

 E-SWITCH®		ELECTRICAL RATINGS	CUTOUT / PANEL DEPTH	FUNCTIONS AVAILABLE	TERMINAL OPTIONS	ACTUATOR OPTIONS	MATERIAL OPTIONS	ILLUMINATION	IP RATING	WIRE OPTIONS
	CS4 CS7	1A @ 5-24VDC	Diameter: 19mm 22mm	SPST	150mm Wire Leads with Connector	Flat	Aluminum, Clear Anodized	RGB Ring or Power Symbol	✗	●
	PMV6	2A @ 24VDC	Diameter: 22mm Max. Depth: 1-11mm	SPDT, DPDT	Solder Lug Wire Leads: 300mm	Flat	Plastic	None	IP65	●
	PVA6	2A,36VDC	Diameter: 16mm Max. Depth: 6-8mm	1 Pole: Off-(On)	Solder Lug Wire-Lead	Rounded Flat High	Black Anodized Clear Anodized Stainless Steel Brushed Stainless Steel	Ring Power Symbol	IP67	●
	PVB3	2A, 24VDC 0.5A, 220VAC	Diameter: 16mm	SPDT On-(On) On-On	Solder Lug	Flat High	Stainless Steel Black Anodized	Ring Ring/Power Symbol Combo	IP65	●
	PVHC4	20A, 250VAC 25A, 30VDC	Diameter: 19mm	SPST Off-On Off-(On)	Solder Lug	Flat High	Stainless Steel Black Anodized	Ring Ring/Power Symbol Combo	IP67	●
	PVHC7	20A @ 250VAC	Diameter: 22mm	SPST (Momentary or Latching)	Solder Lug	Stainless Steel Black Anodized	Stainless Steel Black Anodized	Ring Ring & Power Symbol White, Red, Green, Blue, Yellow	IP67	●
	PVK4	2A, 24VDC	Diameter: 19mm Max. Depth: 10.0mm	SPDT ON-ON ON-(ON) DPDT ON-ON-ON (ON)-ON-(ON)	Solder Lug	Flat	Stainless Steel	None Selector Arrow	IP40 IP65	✗
	PVL	✗	Diameter: 6-19mm Max. Depth: 6mm to 10mm (depending on mounting diameter)	✗	Solder Lug Wire leads: 150mm	Flat	Stainless Steel Black	Pilot Lamp	IP67	●
	PVS7	2A @ 24VDC	Diameter: 22mm Max. Depth: 1-11mm	SPDT, DPDT	Solder Lug Wire Leads: 300mm	Flat	Stainless Steel	RGB Ring	IP65	●
	PVT4	50mA,24VDC	Diameter: 19mm Max. Depth: 6mm	1 Pole: Off-(On)	Solder Lug Wire Lead	Flat	Stainless Steel	Ring	IP65	●
	PZ	1A@5-24VDC	Diameter: 16mm - 22mm Max. Depth: 10mm	Momentary Pulse	150mm Wire Lead 300mm Wire Lead	Concave Flat	Stainless Steel Black Anodized	RGB Ring	IP68	●

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ANTI-VANDAL | PART 3

E-SWITCH®		ELECTRICAL RATINGS	CUTOUT / PANEL DEPTH	FUNCTIONS AVAILABLE	TERMINAL OPTIONS	ACTUATOR OPTIONS	MATERIAL OPTIONS	ILLUMINATION	IP RATING	WIRE OPTIONS
	SAV4	15A @ 125/250VAC	Diameter: 19mm Max. Depth: 1-11mm	1 Pole: 1P - ON - ON, 1P ON - (ON) Momentary	4.8 mm Quick Connect	Flat	Stainless Steel, Black Anodized	Non-illuminated, Dot, Ring, Power Symbol, Ring/Power Symbol Combo	IP67	×
	SAV7	15A @ 125/250VAC	Diameter: 22mm Max. Depth: 1-11mm	1 Pole: 1P - ON - ON, 1P ON - (ON) Momentary	4.8 mm Quick Connect	Flat	Stainless Steel, Black Anodized	Non-illuminated, Ring, Ring/Power Symbol Combo	IP67	×
	SAV8	15A @ 125/250VAC	Diameter: 25mm Max. Depth: 1-11 mm	1 Pole: 1P - ON - ON, 1P ON - (ON) Momentary	4.8 mm Quick Connect	Flat	Stainless Steel, Black Anodized	Non-illuminated, Ring, Ring/Power Symbol Combo	IP67	×
	SV4	2A 2 36VDC	Diameter: 19mm Max. Depth: 1-6mm	1 Pole: SPST 1P OFF - (ON)	Solder Lug Wire Leads: 500mm	Flat	Stainless Steel	Ring, Ring/Power Symbol Combo	IP67	●
	SV7	2A 2 36VDC	Diameter: 22mm Max. Depth: 1-6mm	Pole: SPST 1P OFF - (ON)	Solder Lug Wire Leads: 500mm	Flat	Stainless Steel	Ring, Ring/Power Symbol Combo	IP67	●
	SV8	2A 2 36VDC	Diameter: 25mm Max. Depth: 1-6mm	1 Pole: SPST 1P OFF - (ON)	Solder Lug Wire Leads: 500mm	Flat	Stainless Steel	Ring, Ring/Power Symbol Combo	IP67	●

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E-SWITCH®		ELECTRICAL RATINGS	CUTOUT / PANEL DEPTH	FUNCTIONS AVAILABLE	TERMINAL OPTIONS	ACTUATOR OPTIONS	MATERIAL OPTIONS	ILLUMINATION	IP RATING	WIRE OPTIONS
	ULV4	3A 125/250VAC (cURus)	Diameter: 19mm Max. Depth: 10mm	1 Pole: On-On On-(On) 2 Pole: On-On On-(On)	Solder Lug Wire Leads: 300mm Detachable Socket Wire Leads 500mm Molded Boot Wire Leads: 500mm	Flat	Black Anodized Nickel Plated Brass Stainless Steel	Bi-Color Dot Ring Power	IP67	●
	ULV7	3A 125/250VAC (cURus)	Diameter: 22mm Max. Depth: 10mm	1 Pole: On-On On-(On) 2 Pole: On-On On-(On)	Solder Lug Wire Leads: 300mm Detachable Socket Wire Leads 500mm Molded Boot Wire Leads: 500mm	Flat	Anodized Aluminum Stainless Steel	Bi-Color Ring Ring w/ Power	IP67	●
	ULV8	3A 125/250VAC (cURus)	Diameter: 25mm Max. Depth: 10mm	1 Pole: On-On On-(On) 2 Pole: On-On On-(On)	Solder Lug Wire Leads: 300mm Detachable Socket Wire Leads 500mm Molded Boot Wire Leads: 500mm	Flat	Black Anodized Stainless Steel	Ring Bi-color	IP67	●

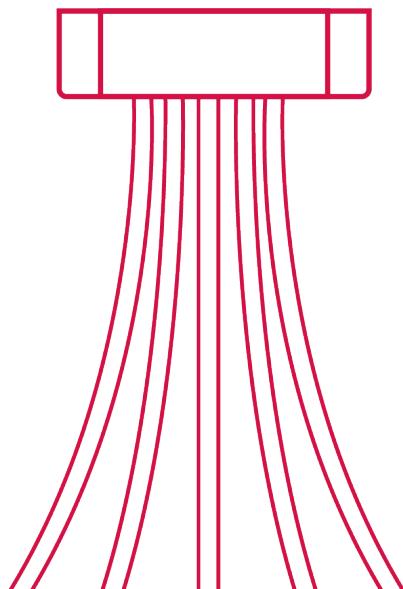
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Get Wired with E-Switch

E-Switch offers several terminal options which will enhance your production line and your bottom line. Selecting the right terminal option for your product assembly process will provide time and costs savings from:

- No need to second-source wire leads and assembly house.
- Reduce labor cost by ordering your switches pre-wired before arrival on your manufacturing floor.
- Decrease product assembly time with the ease of installing behind the panel.

The Anti-Vandal switch (aka Vandal-Resistant, Vandal-Proof, Tamper-Resistant or Tamper Proof) was designed to be installed in devices that are susceptible to harsh use, vandalism and theft, as well as to withstand extreme temperatures and to be resistant to dust and moisture. The wired options are color-coded for convenience and are compatible with a variety of connectors.



Visit e-switch.com for more information on our wired options

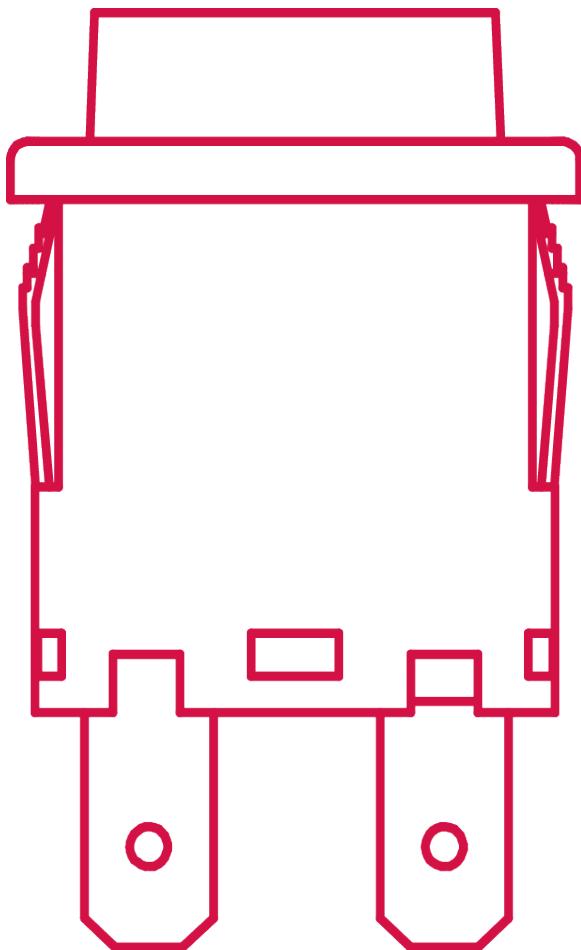
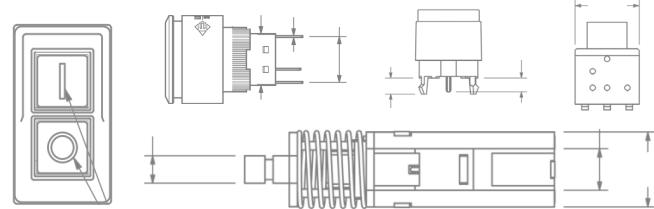
TERMINAL OPTIONS: ANTI-VANDAL SERIES ULV				
ANTI-VANDAL SERIES	SOLDER LUG	TERMINAL OPTION W WIRE LEADS ATTACHED 300MM LONG	TERMINAL OPTION M MOLDED PROTECTIVE BOOT WITH WIRE LEADS	TERMINAL OPTION P DETACHABLE SOCKET WITH WIRE LEADS
ULV4				
ULV7				
ULV8				

ANTI-VANDAL | TERMINAL OPTIONS - PART 2

TERMINAL OPTIONS: ANTI-VANDAL SERIES PV

ANTI-VANDAL SERIES	SOLDER LUG	WIRE LEADS ATTACHED 300MM LONG	PVP DETACHABLE SOCKET WITH SOLDER LUG	PVP DETACHABLE SOCKET WITH WIRE LEADS
PV3				
PV4				
PV6			×	×
PV7				
PV8			×	
PV9			×	
PV10			×	
PVB3		×	×	
PVHC4			×	×
PVHC7			×	×

PUSHBUTTON



Pushbutton switches open or close an electrical circuit by pressing or, in some cases, pulling on the actuator. Deciding on the size, style and functionality of the pushbutton is often determined by the application.

E-Switch offers a wide range of pushbutton switches, from miniature size with low current ratings to industrial use switches with high power and horsepower ratings. Several pushbutton switches provide an IP rating of IP54, IP65 or IP67, depending on the switch series.

With E-Switch, the possibilities of shapes and styles are endless. Shape options include square, round, oval and rectangle, while some switches offer caps. Multiple termination options are available within the pushbutton family: solder lug, PCB pin, right angle PCB pins, vertical PCB pins, surface mount, socket and tab.



PUSHBUTTON | PART 1 - SUBMINIATURE

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	POLES / THROWS / FUNCTIONS	BUSHING OPTIONS	TERMINAL OPTIONS	INGRESS PROTECTION
	700	Life Cycles: 50,000 Operating Force: 200gf Operating Temperature: -30°C to 85°C Contact Resistance: 20mΩ Max. Insulation Resistance: 1,000MΩ Min.	Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus] Gold: 0.4VA, Max. 20V (AC or DC)	1.0mm	SPDT: On-(On) DPDT: On-(On)	Flat Non-Threaded Flat Threaded Keyway Non-Threaded Keyway Threaded	Right Angle PCB Pin Solder Lug Vertical PCB Pin Vertical PCB Pin with Bracket Wire Wrap	
	700A	Life Cycles: 50,000 Operating Force: 300gf Operating Temperature: -30°C to 85°C Contact Resistance: 20mΩ Max. Insulation Resistance: 1,000MΩ Min.	Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus] Gold: 0.4VA, Max. 20V (AC or DC)	1.0mm	SPDT: On-(On) DPDT: On-(On)	Non-Threaded Threaded	Right Angle PCB Pin Solder Lug Vertical PCB Pin Vertical PCB Pin with Bracket	IP67
	700C	Life Cycles: 50,000 Operating Force: 400gf SP7, 600gf DP7 Operating Temperature: -30°C to 85°C Contact Resistance: 20mΩ Max. Insulation Resistance: 1,000MΩ Min.	Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus] Gold: 0.4VA, Max. 20V (AC or DC)	3.0mm	SPDT: On-On	Flat Non-Threaded Flat Threaded Keyway Non-Threaded Keyway Threaded	Right Angle PCB Pin Solder Lug Vertical PCB Pin Vertical PCB Pin with Bracket	
	800	Life Cycles: 50,000 Operating Force: 200gf Operating Temperature: -30°C to 85°C Contact Resistance: 10mΩ Max. Insulation Resistance: 1,000MΩ Min.	Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus] Gold: 0.4VA, Max. 20V (AC or DC)	0.9mm	SPST Off-(On) SPDT On-(On)	Flat Non-Threaded Flat Threaded Non-Threaded	Right Angle PCB Pin Solder Lug Right Angle PCB Pin with Bracket Vertical PCB Pin Vertical PCB Pin with Bracket	
	800A	Life Cycles: 50,000 Operating Force: 200gf Operating Temperature: -30°C to 85°C Contact Resistance: 10mΩ Max. Insulation Resistance: 1,000MΩ Min.	Silver: 3A, 120VAC or 28VDC [cURus] 1A, 250VDC Gold: 0.4VA, Max. 20V (AC or DC)	0.9mm	SPST Off-(On) SPDT On-(On)	Non-Threaded	Right Angle PCB Pin Vertical PCB Pin	IP67
	800B	Life Cycles: 50,000 Operating Force: 200gf Operating Temperature: -30°C to 85°C Contact Resistance: 20mΩ Max. Insulation Resistance: 1,000MΩ Min.	Gold: 0.4VA, Max. 20V (AC or DC)	0.9mm	SPST Off-(On) SPDT On-(On)	Non-Threaded	Surface Mount	
	800C	Life Cycles: 6,000 Operating Force: 350gf Operating Temperature: -30°C to 85°C Contact Resistance: Silver: 50mΩ Max initial Gold: 20mΩ Max initial Insulation Resistance: 1,000MΩ Min.	Silver: 3A, 120VAC or 28VDC 1A, 250VAC Gold: 0.4VA, Max. 20V (AC or DC)	Electrical Make: 1.34mm Full travel: 1.88mm	SPDT On-On	Right Angle PCB Pin Solder Lug Vertical PCB Pin		
	800U	Life Cycles: 6,000 Operating Force: 250gf Operating Temperature: -30°C to 85°C Contact Resistance: 100mΩ Initial Insulation Resistance: 500MΩ Min.	Gold: 0.4VA, Max. 20V (AC or DC)	1.0mm	SPDT On-(On) DPDT On-(On)	Non-Threaded	PC thru-hole Right Angle, PC thru-hole Vertical Right angle, PC thru-hole	IP67
	TL2233	Life Cycles: 10,000 Cycles Operating Temp: -10°C to 60°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 10MΩ Min. at 100VDC	100mA @ 30VDC	1.90mm	DPDT	Non-Threaded	SMT Gull Wing	IP67

Specifications subject to change without notice

PUSHBUTTON | PART 2 - PCB MOUNT

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	OPERATING FORCE	TRAVEL	POLES / THROWS	MOUNTING OPTIONS	TERMINAL OPTIONS	ILLUMINATION	INGRESS PROTECTION
	5500	<p>Life Cycles: 500,000</p> <p>Operating Temperature: -25°C to 65°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 50MΩ Min.</p>	300mA, 12VDC	255gf Max.	2.5mm	SPDT	PCB	PCB Pin	1 or 2 Dot	X
	FS5700	<p>Life Cycles: 30,000</p> <p>Operating Temperature: -10°C to 70°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min. @ 500VDC</p>	1A, 9VDC	1000gf to 3000gf	2.7mm to 5.0mm	SPDT DPDT 3PDT	PCB Panel Mount	PCB Pin Solder Lugs	X	X
	KS1100	<p>Life Cycles: 50,000,000</p> <p>Operating Temperature: -10°C to 70°C</p> <p>Contact Resistance: 100mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min. @ 100VDC</p>	10mA, 12VDC	60gf	4.0mm	SPST	PCB	PCB Pin	X	X
	LC	<p>Life Cycles: 10,000</p> <p>Operating Temperature: -20°C to 85°C</p> <p>Contact Resistance: 20mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	300mA, 30VDC	200gf to 330gf	3.5mm	SPDT DPDT	PCB	Right Angle PCB Pin	X	X
	LP11	<p>Life Cycles: 1,000,000</p> <p>Operating Temperature: -40°C to 85°C</p> <p>Contact Resistance: 200mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	100mA, 12VDC	160(M) 200(L)	4.5mm (M) 3.5mm (L)	SPST	PCB	PCB Pin	RGB Full	X
	LP15	<p>Life Cycles: 300,000</p> <p>Operating Temperature: -20°C to 70°C</p> <p>Contact Resistance: 200mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	1mA, 20VDC	125gf	1.3mm	SPST	PCB	PCB Pin	Full	X
	LP16	<p>Life Cycles: 50,000,000</p> <p>Operating Temperature: -5°C to 60°C</p> <p>Contact Resistance: 150mΩ Max.</p> <p>Insulation Resistance: 10MΩ Min.</p>	100mA, 20VDC	250gf	3.3mm	SPST	PCB	PCB Pin	Full	X
	LP2	<p>Life Cycles: 300,000</p> <p>Operating Temperature: -20°C to 70°C</p> <p>Contact Resistance: 200mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	1mA, 20VDC 5mA, 5VDC	125gf	1.3mm	SPST	PCB	PCB Pin	Full	X
	LP37	<p>Life Cycles: 30,000</p> <p>Operating Temperature: -30°C to 85°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 1,000MΩ Min. at 100VDC</p>	20mVDC to 50VDC; 10mA to 250mA	250gf ± 100gf	Full: 5.1mm ± 0.5mm;	SPDT	PCB	PCB Pin	Full	X

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PUSHBUTTON | PART 3 - PCB MOUNT

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	OPERATING FORCE	TRAVEL	POLES / THROWS	MOUNTING OPTIONS	TERMINAL OPTIONS	ILLUMINATION	INGRESS PROTECTION
	LP4	<p>Life Cycles: 50,000</p> <p>Operating Temperature: -20°C to 70°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	100mA, 30VDC	250gf	Full: 1.5mm Latching: 1.0mm	DPDT	PCB	PCB Pin	Full	×
	LP6	<p>Life Cycles: 200,000</p> <p>Operating Temperature: -20°C to 70°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	12mA, 12VDC	150gf SPST 200gf DPST	2.2mm	SPST DPST	PCB	PCB Pin	RGB Full	×
	PBH	<p>Life Cycles: 6,000</p> <p>Operating Temperature: -20°C to 70°C</p> <p>Contact Resistance: 100mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	100mA, 30VDC	230gf DPDT 280gf 4PDT 380gf 6PDT	5.5mm	DPST DPDT	PCB	Right Angle PCB Pin	×	×
	PB300	<p>Life Cycles: 20,000</p> <p>Operating Temperature: -40°C to 95°C</p> <p>Contact Resistance: 50mΩ Max. Initial</p> <p>Insulation Resistance: 100MΩ Min.</p>	30mA, 28VDC	ST: 490gf DT: 1st position: 600gf 2nd position: 1150gf	2.0mm	SPST SPDT	PCB	PCB Pin	×	×
	PB350	<p>Life Cycles: 20,000</p> <p>Operating Temperature: -40°C to 85°C</p> <p>Contact Resistance: 50mΩ Max. Initial</p> <p>Insulation Resistance: 10GΩ Min. @ 1000VDC</p>	30mA @ 28 VDC	ST: 490 grams DT: 1st Position: 600 grams DT: 2nd Position: 1150 grams	2.0mm	SPST Double Action	PCB	PCB Pin	LED: Red, White, Yellow, Blue, Green	×
	PB400	<p>Life Cycles: 6,000 Cycles</p> <p>Operating Temperature: -5°C to 60°C</p> <p>Contact Resistance: 30mΩ Max.</p> <p>Insulation Resistance: 500MΩ Min.v</p>	3A, 30VDC	3N-7N	1.8-3.2mm	DPST	PCB	PCB Pin	×	×
	TL2201 TL4201	<p>Life Cycles: 10,000</p> <p>Operating Temperature: -20°C to 70°C</p> <p>Contact Resistance: 100mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	100mA, 30VDC	220gf DPDT 300gf 4PDT	2.5mm	DPDT 4PDT	PCB	PCB Pin	×	×
	TL2202	<p>Life Cycles: 10,000</p> <p>Contact Resistance: 100mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	100mA 30VDC	220gf	2.5mm	DPDT	PCB	PCB Pin	×	×
	TL2203	<p>Life Cycles: 10,000</p> <p>Operating Temperature: -20°C to 70°C</p> <p>Contact Resistance: 100mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	100mA, 30VDC	180gf	1.9mm	DPDT	PCB	PCB Pin	×	×

Specifications subject to change without notice

PUSHBUTTON | PART 4 - PCB MOUNT

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	OPERATING FORCE	TRAVEL	POLES / THROWS	MOUNTING OPTIONS	TERMINAL OPTIONS	ILLUMINATION	INGRESS PROTECTION
	TL2205	Life Cycles: 10,000 Operating Temperature: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	100mA, 30VDC	250gf	Full: 2.5mm Lock: 1.5mm	DPDT	PCB	PCB Pin	Dot	✗
	TL2230	Life Cycles: 10,000 Operating Temperature: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	100mA, 30VDC	140gf 230gf	1.8mm	DPDT	PCB	PCB Pin	✗	✗
	TL2285	Life Cycles: 10,000 Operating Temperature: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	100mA, 30VDC	180gf	2.5mm	DPDT	PCB	PCB Pin	✗	✗
	ULP	Life Cycles: 200,000 Cycles Operating Temperature: -40°C to 85°C Contact Resistance: 50mΩ Silver, 100mΩ Gold Insulation Resistance: 100MΩ at 500VDC	Gold: 0.1A Max. @ 28VDC; Silver: 0.5A @ 25VDC; 0.2A @ 250VAC	SPDT: 200gf ± DPDT: 300gf	2.20mm	SPDT PDT	PCB Panel Mount	PCB Pin Solder Lug	RGB Full	✗
	WBL	Life Cycles: 10,000 Operating Temperature: -20°C to 70°C Contact Resistance: 50mΩ Max. Insulation Resistance: 100MΩ Min.	300mA, 30VDC	200gf	Full: 3.3mm Lock: 2.5mm	DPDT 4PDT	PCB	Right Angle PCB Pin	Full	✗

Specifications subject to change without notice

PUSHBUTTON

PART 5 - PANEL MOUNT

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	OPERATING FORCE	TRAVEL	POLES / THROWS / FUNCTIONS	PANEL CUTOUT DIMENSIONS	TERMINAL OPTIONS	ILLUMINATION	INGRESS PROTECTION
	700	<p>Life Cycles: 50,000 Operating Force: 200gf Operating Temperature: -30°C to 85°C Contact Resistance: 20mΩ Max. Insulation Resistance: 1,000MΩ Min.</p>	<p>Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus]</p> <p>Gold: 0.4VA, Max. 20V (AC or DC)</p>	200gf	1.0mm	SPDT: On-(On) DPDT: On-(On)	12.7mm x 15.7mm	Quick Connect Solder Lug	×	×
	D16	<p>Electrical / Mechanical Life: 50,000 / 100,000 Cycles Operating Temperature: -20°C to 55°C Contact Resistance: 100mΩ Max. Insulation Resistance: 1,000MΩ Min.</p>	8A, 125VAC [cURus, CSA] 6A, 24VDC [cURus, CSA]	300gf	3.0mm	SPDT, DPDT, 3PDT, 4PDT On-On On-(On)	16mm Diameter	Solder Lug	Full	×
	KJD17	<p>Electrical Life 10,000 Cycles Operating Temperature: -25°C to 55°C Contact Resistance: 50mΩ Max. Insulation Resistance: 100MΩ Min. at 500VDC</p>	16A 120VAC [cURus UL508] 16A 220/240VAC [cURus UL508] 1/2 HP 120VAC [cURus UL508] 2HP 220/240VAC [cURus UL508]	N/A	N/A	Off-On Off-On w/Remote Trip NO+NC w/Remote Trip	46mm x 22mm	Silver Plated Brass	×	IP54 with PVC Cap
	KJE32	<p>Electrical Life 10,000 Cycles Operating Temperature: -20°C to 85°C Contact Resistance: < 50mOhms Insulation Resistance: Min 100MOhms</p>	20(20)A 250VAC 1E5 T85/55 TUV(EN61058), 20(20)A 127VAC 1E5 T85/55 TUV(EN61058), 20(20)A 127VAC 1E5 T85/55 UL(EN61058), 25.1A 60VDC 10E4 T85/55 UL(EN61058)	Green Button: 25N+/-5N; Red Button: 10N +/-5N	Green Button: 4.7 +/- .3mm; Red Button: 2.3 +/- .3mm	2NO, 2NO w/ remote trip, NO + NC w/ remote trip, NO + NC, 2NO + NC, 2NO + NC w/ remote trip	46mm x 22mm x 2.5mm	Silver Plated Brass	×	IP55
	L16	Operating Temperature: -25°C to 55°C	N/A	N/A	N/A	Signal Light	16mm Diameter	Solder Lug	Full Signal Light	×
	LA	<p>Electrical / Mechanical Life: 50,000 / 100,000 Cycles Operating Temperature: -20°C to 55°C Contact Resistance: 100mΩ Max. Insulation Resistance: 1,000MΩ Min.</p>	8A, 125VAC [cURus] 5A, 250VAC [cURus] 2A, 250VDC [cURus] 6A, 24VDC [cURus]	300gf	3.0mm	SPDT, DPDT, 3PDT, 4PDT On-On On-(On)	22mm Diameter 25.5mm Diameter 30.5mm Diameter	Socket Solder Tab	Full Signal Light	IP65
	LB22	<p>Electrical / Mechanical Life: 500,000 Cycles 1,000,000 Cycles Operating Temperature: -20°C to 55°C Contact Resistance: 50mΩ Max. @1A 12VDC Insulation Resistance: 1,000 MΩ Min. @ 500VDC</p>	3A @ 250VAC	SPDT: 2.5±1N DPDT: 3.5±1N	3.20mm	SPDT, DPDT ON-ON ON-(ON)	22mm Diameter	Solder Lug	Full Power Symbol	IP65
	LP1	<p>Electrical / Mechanical Life: 50,000 / 50,000 Cycles Operating Temperature: -40°C to 85°C Contact Resistance: 50mΩ Max. Insulation Resistance: 100MΩ Min.</p>	100mA, 30VDC	250gf	1.8mm	SPST Off-(On)	8mm Diameter	Solder Lug	Full	×
	P16	<p>Electrical / Mechanical Life: 50,000 / 100,000 Cycles Operating Temperature: -20°C to 55°C Contact Resistance: 100mΩ Max. Insulation Resistance: 1,000MΩ Min.</p>	8A, 125VAC cURus 6A, 24VDC	300gf	3.0mm	SPDT, DPDT, 3PDT, 4PDT On-On On-(On)	16mm Diameter	Socket	Full	×

Specifications subject to change without notice

PUSHBUTTON | PART 6 - PANEL MOUNT

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	OPERATING FORCE	TRAVEL	POLES / THROWS / FUNCTIONS	PANEL CUTOUT DIMENSIONS	TERMINAL OPTIONS	ILLUMINATION	INGRESS PROTECTION
	PA4	<p>Electrical / Mechanical Life: 10,000 / 50,000 Cycles</p> <p>Operating Temperature: -20°C to 65°C</p> <p>Contact Resistance: 20mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	16A, 125VAC [cURus] 16A, 250VAC [cURus] 16(4)A, 250VAC [ENEC] 16(8)A, 250VAC [ENEC]	500gf	4.5mm	SPST Off-On Off-(On)	13mm x 19mm PCB	PCB Pin Solder Tab	Full	IP54
	PA5	<p>Electrical / Mechanical Life: 10,000 / 50,000 Cycles</p> <p>Operating Temperature: -20°C to 125°C</p> <p>Contact Resistance: 20mΩ Max.</p> <p>Insulation Resistance: 100MΩ Min.</p>	16A, 125VAC [cURus] 16A, 250VAC [cURus] 16(4)A, 250VAC [ENEC] 16(8)A, 250VAC [ENEC]	500gf	5.5mm	SPST Off-On Off-(On) DPST Off-On Off-(On)	Capture Mount PCB	PCB Pin Solder Tab	X	X
	PB1973	<p>Electrical / Mechanical Life: 10,000 / 30,000 Cycles</p> <p>Operating Temperature: -10°C to 55°C</p> <p>Contact Resistance: 20mΩ Max.</p> <p>Insulation Resistance: 1,000MΩ Min.</p>	15A, 125VAC [cURus] 15A, 250VAC [cURus]	300gf to 800gf	2.8mm	SPST Off-On Off-(On) DPST Off-On Off-(On)	13mm x 19.2mm	Tab	Full	X
	PB2	<p>Electrical / Mechanical Life: 6,000 / 50,000 Cycles</p> <p>Operating Temperature: -20°C to 85°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 5MΩ Min.</p>	20A, 125VAC [UR] 12A, 250VAC [UR]	600gf	3.1mm	SPST Off-On On-On DPST Off-On On-On	22mm x 30mm	Tab	Dot	IP54
	PB66	<p>Electrical Life: 50,000 Cycles</p> <p>Operating Temperature: 0°C to 55°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 2MΩ MIN @ 500VDC</p>	16(16)A 127VAC, UL	13N	1.5mm (Operating) 4.5mm (Lock Off) Total: 6mm	DPST Off-On Latching	25mm Diameter	Tab	Power Symbol Illuminated	IP66
	PP1	<p>Electrical / Mechanical Life: 6,000 / 50,000 Cycles</p> <p>Operating Temperature: 0°C to 85°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 2MΩ Min.</p>	16A, 125VAC [cURus] 12A, 250VAC [cURus] 1HP, 125/250VAC [cURus]	300gf to 500gf	Push Only Push: 9.4mm Push-Pull Push: 5.0mm Pull: 5.7mm	SPDT On-Off-(On) Push-Pull On-(On)	13.3mm x 28.2mm	Tab	X	X
	PP2	<p>Electrical / Mechanical Life: 6,000 / 50,000 Cycles</p> <p>Operating Temperature: 0°C to 85°C</p> <p>Contact Resistance: 50mΩ Max.</p> <p>Insulation Resistance: 10MΩ Min.</p>	Rating Option 1: 10R(4)A 277VAC 5E4 [UL] Rating Option 2: 16A, 125VAC [cURus] 12A, 250VAC [cURus] 1HP, 125/250VAC [cURus]	300gf to 500gf	Push Only Push: 9.4mm Push-Pull Push: 5.0mm Pull: 5.7mm	DPDT On-Off-(On) Push-Pull On-(On)	13.5mm x 36mm	Tab	X	X
	RP3508	<p>Electrical / Mechanical Life: 6,000 / 20,000 Cycles</p> <p>Operating Temperature: 0°C to 65°C</p> <p>Contact Resistance: 100mΩ Max.</p> <p>Insulation Resistance: 1,000MΩ Min.</p>	3A, 125VAC [cURus] 1.5A, 250VAC [cURus]	500gf	3.5mm	SPST Off-On Off-(On)	16mm Diameter	Solder Lug	Full	X

Specifications subject to change without notice

PUSHBUTTON | PART 7 - PANEL MOUNT

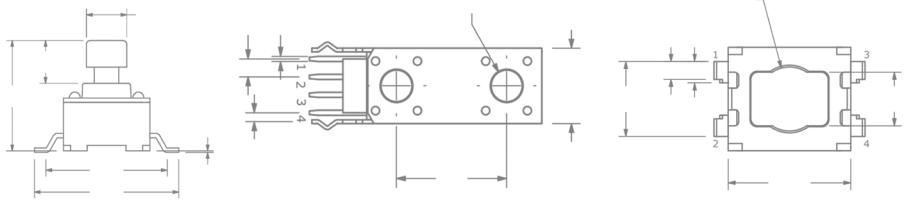
E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	OPERATING FORCE	TRAVEL	POLES / THROWS / FUNCTIONS	PANEL CUTOUT DIMENSIONS	TERMINAL OPTIONS	ILLUMINATION	INGRESS PROTECTION
	RP8100	Electrical / Mechanical Life: 500,000 Cycles Operating Temperature: -30°C to 85°C Contact Resistance: 50mΩ Max. Insulation Resistance: 1,000MΩ Min.	125mA, 125 VAC 100mA, 50 VDC	350gf	1.5mm	SPST Off-(On)	13.6mm Diameter	Solder Lug Wire Leads	Dot	IP67
	RP8200	Electrical / Mechanical Life: 200,000 Cycles Operating Temperature: -30°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 1,000MΩ Min.	100mA, 24VDC	560gf	2.5mm	SPST Off-On	13.6mm Diameter	Solder Lug	Dot	IP67
	RP8300	Electrical / Mechanical Life: 500,000 Cycles Operating Temperature: -30°C to 85°C Contact Resistance: 50mΩ Max. Insulation Resistance: 1,000MΩ Min.	200mA, 50VDC	350gf	1.5mm	SPST Off-(On)	13.6mm Diameter	Solder Lug	Dot	IP67
	RP8400	Electrical / Mechanical Life: 500,000 Cycles Operating Temperature: -30°C to 85°C Contact Resistance: 50mΩ Max. Insulation Resistance: 1,000MΩ Min.	200mA, 50VDC	350gf	1.5mm	SPST Off-(On)	13.6mm Diameter	Solder Lug	Dot	IP67
	RP8500	Electrical / Mechanical Life: 500,000 Cycles Operating Temperature: -30°C to 85°C Contact Resistance: 50mΩ Max. Insulation Resistance: 1,000MΩ Min.	125mA, 125VAC 100mA, 50VDC	350gf	SPST Off-(On)	Solder Lug	13.6mm Diameter	Solder Lug	Dot	IP67
	RP8600	Electrical / Mechanical Life: 50,000 / 100,000 Cycles Operating Temperature: -30°C to 85°C Contact Resistance: 200mΩ Initial @2-4VDC, 100mA Insulation Resistance: 100MΩ @500VDC	0.4VA Max @20V Max (AC or DC)	630gf	0.65mm	SPST Off-(On)	16.0mm Diameter	Solder Lug	✗	IP67
	RP8700	Electrical / Mechanical Life: 500,000 / 1,000,000 Cycles Operating Temperature: -30°C to 85°C Contact Resistance: 50mΩ Max. Insulation Resistance: 1GΩ min/500V	125mA, 125VAC; 200mA, 50VDC	3-6N	1.5mm	SPST; Off-(On) or On-(Off)	13.6mm Diameter	Solder Lug PC Pin Wired w/ Connector	Dot	IP68

EMERGENCY STOP

E-SWITCH®		ELECTRICAL RATINGS	CUTOUT	FUNCTIONS AVAILABLE	TERMINAL OPTIONS	ACTUATOR OPTIONS	MATERIAL OPTIONS	ILLUMINATION	IP RATING	DESIGN
	E100	3A @ 125VAC, 1.5A @ 250VAC 0.22A @ 125VDC, 0.11A @ 250VDC	Diameter: 16mm	1NC, 1NC+1NO, 1NC/1NC	Solder Lug (Terminal Shroud)	Illuminated or Non-Illumi- nated	Silver Contacts	No Lamp Neon LED Incandescent	IP65	Pushlock Turn Design
	E200	200mA @ 250VDC 5A @ 250VAC [VDE] 6A @ 24 VDC 8A @ 125VAC	Diameter: 16mm	1NO/1NC+1NO/1NC, 1NO/1NC	Solder Lug (Terminal Shroud)	Illuminated or Non-Illumi- nated	Silver Contacts	No Lamp Neon LED Incandescent	IP65	Pushlock Turn Design

Specifications subject to change without notice

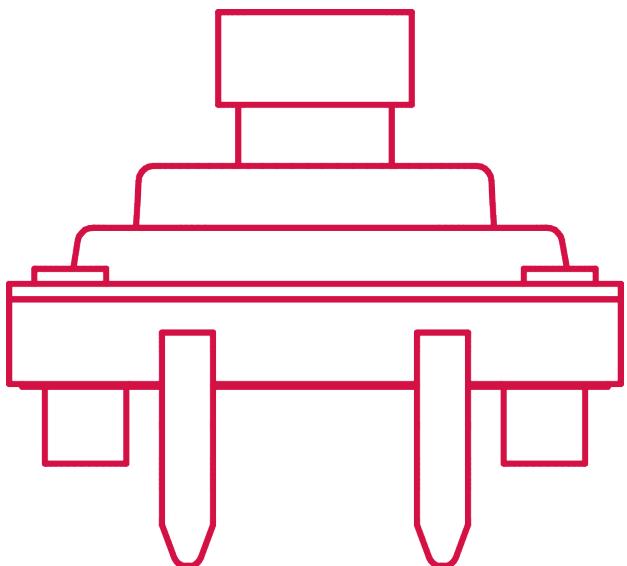
TACTILE



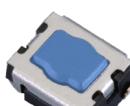
Tactile, a.k.a Tact, switches are used to close an electrical circuit when pressed. When the switch is released, it opens the circuit.

Tact switches come in a wide range of styles and sizes. E-Switch offers Tact switches from miniature to 12.4mm square in size and numerous styles — illuminated, non-illuminated, caps, round, square, rectangle and oval. Tact switches typically offer two mounting options, surface mount or thru-hole mount, and some right-angle options. Several Tact switches have very low profiles, from 0.35mm – 0.65mm and up.

Reliability, long operation life and compact size make tact switches ideal for the growing market of wearable technology and handheld devices. Several other common markets include audio/visual equipment, telecommunications, computer electronics and peripheral equipment, instrumentation controls and medical devices.



TACTILE | PART 1

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	DIMENSIONS	OPERATING FORCE (GF)	MOUNTING OPTIONS	INGRESS PROTECTION
	320	Multiple Actuator Styles Life Cycles: 1,000,000 Operating Temp: -20°C to 70°C Contact Resistance: 50mΩ Max. Insulation Resistance: 1,000MΩ Min.	25mA, 50VDC	0.6mm	12.4mm x 12.4mm 12.4mm x 22.0mm	135	PCB Pin	×
	TL1014	Life Cycles: up to 200,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm (160 gf) 0.30mm (220 gf)	4.7mm x 3.5mm	160, 220	SMT (Gull Wing)	×
	TL1015	Life Cycles: 200,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.20mm	2.9mm x 3.9mm	160	SMT (Gull Wing)	×
	TL1016	Life Cycles: 100,000 Operating Temp: -40°C to 85°C Contact Resistance: 500mΩ Max. (Initial) Insulation Resistance: 100MΩ Min at 100VDC.	50mA, 12VDC	0.20mm +0.2/-0.1mm	3.5mm x 2.9mm	160gf + 70/-40gf 220gf + 80/-70gf	Boss Pin Ground Terminal SMT (Gull Wing)	×
	TL1017	Life Cycles: 200,000 cycles for 160gf 100,000 cycles for 260gf Operating Temperature: -20°C to 70°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100MΩ Min. at 500VDC	50mA, 12VDC	0.15mm ± 0.1mm	4mm x 2.5mm	160gf ± 50gf; 260gf ± 50gf	SMT (Gull Wing)	×
	TL1018	Life Cycles: 500,000 cycles for 160gf 200,000 cycles for 240gf, 340gf, and 450gf Operating Temperature: -40°C to 85°C	50mA, 12VDC	0.15mm ± 0.1mm	3.5mm x 2.6mm	160gf (Black) 240gf (Black) 340gf (Orange) 450gf (Orange)	SMT Gull-Wing Ground Terminal	N/A
	TL1030	Life Cycles: F160, F200, F350 - 200,000 cycles F500 - 100,000 cycles Operating Temperature: -40°C to 85°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100MΩ Min. at 500VDC	50mA, 12VDC	0.15mm ± 0.1mm	3.5mm x 2.9mm	160gf ± 50gf (Grey) 200gf ± 50gf (White) 350gf ± 50gf (Blue) 500gf ± 100gf (Brown)	SMT Ground Terminal J Lead	N/A
	TL1100	Multiple Actuator Styles Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.3mm	12.0mm x 12.0mm	160, 260	PCB Pin	×
	TL1105	Caps Available Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	6.0mm x 6.0mm	100, 160, 250	PCB Pin	×
	RT1105	Life Cycles: 100,000 Cycles Operating Temp: -20°C to 85°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100MΩ Min. at 100VDC	12VDC, 50mA	0.25mm	6.60 x 6.60	160gf ± 50gf 260gf +100/-50gf 350gf +100/-50gf	Top Actuated Through-hole, Reverse	×
	RT3301	Life Cycles: 100,000 cycles Operating Temperature: -40°C to 85°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100MΩ Min. at 100VDC	50mA, 12VDC	0.25mm +0.2mm / -0.1mm	6.00mm x 6.00mm	100gf ± 30gf 160gf ± 50gf 260gf ± 50gf 320gf ± 70gf	Top Actuated, Reverse Surface Mount Design	×
	TL1107	Multiple Actuator Styles Life Cycles: 30,000 (260gf), 50,000 (130gf & 180gf) Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	3.5mm x 6.0mm	130, 180, 260	PCB Pin	×

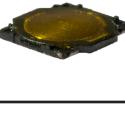
Specifications subject to change without notice

TACTILE | PART 2

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	DIMENSIONS	OPERATING FORCE (GF)	MOUNTING OPTIONS	INGRESS PROTECTION
	TL1220	Caps Available Life Cycles: 500,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.2mm	7.5mm x 7.5mm 10.0mm x 14.0mm 10.0mm x 19.0mm 7, 8, 10mm Dia	180	PCB Pin	X
	TL1240	Caps Available / LED Illuminated Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	6.0mm x 6.0mm	160	PCB Pin	X
	TL1250	Life Cycles: 50,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.2mm	7.0mm x 8.3mm	120, 180, 280	PCB Pin	X
	TL1260	Caps Available / LED Illuminated Life Cycles: 50,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.2mm	6.8mm x 7.0mm	160	PCB Pin	X
	TL1265	Caps Available / LED Illuminated Life Cycles: 500,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.2mm	6.8mm x 7.0mm	160	PCB Pin	X
	TL1275	Life Cycles: 100,000 Operating Temp: -25°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	19mm	350	PMT	X
	TL2243	Double Stacked Low Profile Life Cycles: 30,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	7.3mm x 9.1mm	180	PCB Pin	X
	TL3145	Multiple Actuator Heights Life Cycles: up to 3,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max.	50mA, 12VDC	0.5mm	6.5mm x 6.5mm	180gf 260gf 350gf	Surface Mount	X
	TL3200	Single or Dual LED Illumination Life Cycles: 30,000 Operating Temp: -25°C to 85°C Contact Resistance: 500mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	6.8mm x 4.5mm	160	SMT (Gull Wing)	X
	TL3210	LED Illuminated Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 500mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.2mm	5.6mm x 3.4mm	160	SMT (Gull Wing)	X
	TL3215	LED Illuminated Life Cycles: 1,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	4.9mm x 4.9mm	160	SMT (Gull Wing)	X
	TL3220	LED Illuminated Life Cycles: 100,000 Operating Temp: -40°C to 85°C Contact Resistance: 500mΩ MAX. Insulation Resistance: 100MΩ @ 500VDC	12 VDC @ 50mA	0.20mm	4.90mm x 5.10mm x 2.00mm	160 +/-50 gf	SMT (Gull Wing)	IP5X

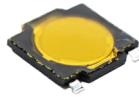
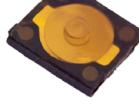
Specifications subject to change without notice

TACTILE | PART 3

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	DIMENSIONS	OPERATING FORCE (GF)	MOUNTING OPTIONS	INGRESS PROTECTION
	TL3240	LED Illuminated / Caps Available Life Cycles: up to 200,000 Operating Temp: -25°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.2mm	6.1mm x 6.1mm	100, 160, 260	SMT (Gull Wing)	×
	TL3253	LED Illuminated Life Cycles: up to 500,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	8.4mm x 10.55mm	160	Right Angle PCB Pin	×
	TL3265	Multiple Actuator Styles Life Cycles: up to 500,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min. @ 500VDC	5mA, 12VDC	0.2mm	6.8mm x 7.0mm	160	SMT	×
	TL3275	Life Cycles: 100,000 Operating Temp: -40°C to 85°C Contact Resistance: 500mΩ Max. (Initial) Insulation Resistance: 100MΩ Min at 100VDC.	50mA, 12VDC	0.20mm ± 0.10mm	6.4mm x 3.4mm	160gf ± 50gf	SMT	×
	TL3300	Multiple Actuator Styles Life Cycles: up to 200,000 Operating Temp: -25°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.35mm	12mm x 12mm	160, 260, 320, 520	SMT (Gull Wing)	×
	TL3301	Caps Available / Multiple Actuator Styles Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	6.0mm x 6.0mm	100, 160, 260	SMT (Gull Wing)	×
	TL3302	Multiple Actuator Styles Life Cycles: 20,000 - 50,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	3.5mm x 6.0mm	130, 180, 260	SMT (Gull Wing)	×
	TL3303	Multiple Actuator Styles Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	6.0mm x 6.0mm	100, 160, 260	SMT (Gull Wing)	×
	TL3305	Life Cycles: up to 500,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.20mm	4.5mm x 4.5mm	160, 260	SMT (Gull Wing)	×
	TL3312	Life Cycles: 500,000(160gf) 50,000 (235 gf) Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.15mm	3.7mm x 3.7mm	160, 235	SMT (Gull Wing)	×

Specifications subject to change without notice

TACTILE | PART 4

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	DIMENSIONS	OPERATING FORCE (GF)	MOUNTING OPTIONS	INGRESS PROTECTION
	TL3313	<p>Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 50mΩ Max. Insulation Resistance: 100MΩ Min.</p>	50mA, 12VDC	0.25mm	4.8mm x 4.8mm	100, 160, 250	SMT (Gull Wing)	
	TL3315	<p>Life Cycles: 1,000,000 (100gf), 500,000 (160gf), 200,000 (250gf) Operating Temp: -20°C to 70°C Contact Resistance: 200mΩ Max. Insulation Resistance: 50MΩ Min.</p>	50mA, 12VDC	0.2mm	4.5mm x 4.5mm	4.5mm x 4.5mm	SMT (Gull Wing)	
	TL3330	<p>Life Cycles: 50,000 (130gf), 30,000 (260gf) Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.</p>	50mA, 12VDC	0.25mm	6.9mm x 3.3mm	130, 260	Right Angle SMT (Gull Wing)	
	TL3336	<p>Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100mΩ Max. (Initial)</p>	12VDC, 50mA	0.35mm	7mm x 7.10mm	160gf ± 50gf	Right-Angle SMT	IP67
	TL3340	<p>Life Cycles: 100,000 Operating Temp: -35°C to 85°C Contact Resistance: 500mΩ (Initial Max.) Insulation Resistance: 100MΩ (Min. @ 100V)</p>	50mA @ 12VDC	0.20 ± 0.10mm	4mm x 3.3mm	160gf ± 50gf; 130gf ± 30g	SMT (Gull Wing)	
	TL3342	<p>Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 20mΩ Max. Insulation Resistance: 100MΩ Min.</p>	50mA, 12VDC	0.25mm	5.2mm x 5.2mm	160, 250	SMT (Gull Wing)	
	TL3360	<p>Life Cycles: 200,000 Operating Temp: -25°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.</p>	50mA, 12VDC	0.15mm	6.5mm x 6mm	185, 260	Right Angle SMT (Gull Wing)	
	TL3365	<p>Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.</p>	50mA, 12VDC	0.20mm	4.2mm x 3.2mm	180	SMT (Gull Wing)	
	TL3701	<p>Life Cycles: 100,000 Operating Temp: -40°C to 85°C Contact Resistance: 500mΩ Max. Insulation Resistance: 100MΩ Min.</p>	50mA, 12VDC	0.15mm	3.0mm x 2.6mm	100, 160	SMT (Gull Wing)	
	TL3780	<p>Life Cycles: up to 500,000 Operating Temp: -40°C to 85°C Contact Resistance: 500mΩ Max. Insulation Resistance: 50MΩ Min</p>	50mA, 12VDC	0.13mm	2.0mm x 3.0mm	100, 160, 240, 330	SMT (Gull Wing)	

Specifications subject to change without notice

TACTILE | PART 5

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	DIMENSIONS	OPERATING FORCE (GF)	MOUNTING OPTIONS	INGRESS PROTECTION
	TL3901	Life Cycles: 50,000 Operating Temp: -40°C to 85°C Contact Resistance: 500mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.3mm	5.4mm x 5.0mm	180	Right Angle Edge (Gull Wing)	✗
	TL4100	Life Cycles: 1,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.15mm	3.5mm x 6.2mm	120, 240	Right Angle Edge (Gull Wing)	✗
	TL4105	Life Cycles: 200,000 Operating Temp: -40°C to 85°C Contact Resistance: 1Ω Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.15mm	2.9mm x 4.8mm	160	Right Angle Edge (Gullwing)	✗
	TL4115	Life Cycles: 600,000 Operating Temp: -30°C to 85°C Contact Resistance: 500mΩ Max. (Initial) Insulation Resistance: 100MΩ Min at 100VDC*	12VDC, 50mA	0.15mm	2.6mm x 4.5mm	160gf ± 50gf 220gf ± 70gf	SMT Right-Angle-Edge	✗
	TL4110	Life Cycles: 300,000 Operating Temp: -40°C to 85°C Contact Resistance: 500mΩ Max. Insulation Resistance: 50MΩ Min.	20mA, 15VDC	0.13mm	2mm x 2.8mm	160	SMT	✗
	TL52	IP67 Rated Life Cycles: 100,000 Operating Temp: -25°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.3mm	8.0mm x 8.0mm	160, 260	PCB Pin	IP67
	TL58	Multiple Actuator Styles Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	6.2mm x 6.2mm	100, 160, 260	Right Angle PCB Pin	✗
	TL59	Multiple Actuator Styles Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	6.2mm x 6.2mm	100, 160, 260	PCB Pin	✗
	TL6100	Multiple Actuator Styles Life Cycles: up to 1,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.5mm	7.4mm x 7.4mm	130, 160, 300, 500	PCB Pin	Process Sealed
	TL6105	Multiple Actuator Styles Life Cycles: up to 1,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.5mm	7.4mm x 7.4mm	130, 160, 300, 500	PCB Pin w/ Earth ground terminal	✗

Specifications subject to change without notice

TACTILE | PART 6

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	DIMENSIONS	OPERATING FORCE (GF)	MOUNTING OPTIONS	INGRESS PROTECTION
	TL6110	Multiple Actuator Styles Life Cycles: up to 1,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.5mm	5.8mm x 8.3mm	130, 160, 300, 500	Right Angle PCB Pin	Process Sealed
	TL6120	Multiple Actuator Styles Life Cycles: up to 1,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.5mm	7.4mm x 7.4mm	130, 160, 300, 500	SMT (Gull Wing)	Process Sealed
	TL6150	Life Cycles: Up to 5,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 10MΩ Min. at 100VDC	50mA, 32VDC	0.3mm; 160gf 0.35mm; 200gf 0.5mm; 350gf	6.2mm x 6.2mm	160gf 200gf 350gf	SMT Gull Wing or J-Lead	IP67
	TL6155	Life Cycles: 300,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 10MΩ Min. at 100VDC*	50mA, 32VDC	0.5mm	6.4mm x 6.55mm	350gf ± 100gf	Right-Angle SMT	IP67
	TL6170	Life Cycles: 300,000 Cycles Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100MΩ Min. at 100VDC	50mA, 12VDC	0.40mm ± 0.20mm	6.3mm x 6.3mm	250gf ± 80gf 180gf ± 80gf	SMT Gull Wing	IP67
	TL6190	Life Cycles: 100,000 Operating Temp (Switch): -40°C to 105°C Operating Temp (Cap): -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.5mm	12.0mm x 11.5mm	220	Right Angle PCB Pin	Process Sealed
	TL6200	Life Cycles: 10,000,000 Operating Temp: -40°C to 85°C Contact Resistance: 30mΩ Max. Insulation Resistance: 10MΩ Min.	50mA, 24VDC	1.0mm	10.10mm x 10.10mm	300	SMT (Gull Wing) PCB Pin	IP67
	TL6210	LED Illuminated Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 500mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.45mm	6.2mm x 4.6mm	200	SMT (Gull Wing)	IP67
	TL6215	Caps Available / LED Illuminated Life Cycles: 500,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.45mm	7.7mm x 6.37mm	200, 450	Vertical or Right Angle PCB Pin	IP67
	TL6275	LED Illuminated Life Cycles: 100,000 Operating Temp: -25°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.25mm	8mm x 8mm	350	PCB Pin	Process Sealed

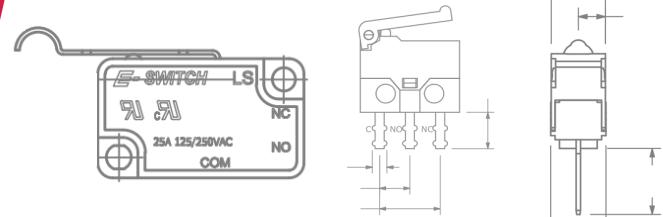
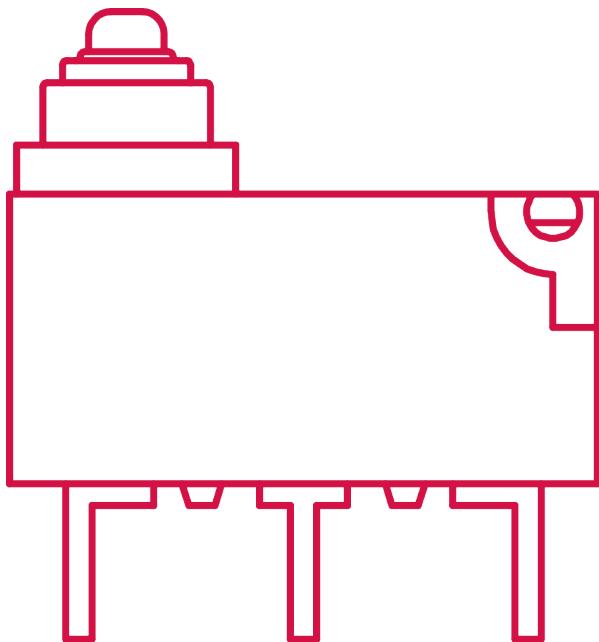
Specifications subject to change without notice

TACTILE | PART 7

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	TRAVEL	DIMENSIONS	OPERATING FORCE (gf)	MOUNTING OPTIONS	INGRESS PROTECTION
	TL6300	Life Cycles: 10,000,000 Operating Temp: -40°C to 90°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.3mm	12mm x 12mm	260	PCB Pin	IP67
	TL6330	Life Cycles: 200,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. Insulation Resistance: 1GΩ Min.	50mA, 32VDC	0.25mm	2.8mm x 4.6mm	200	SMT	IP67
	TL6340	Life Cycles: 200,000 Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max.	20mA, 12VDC	0.2mm	2.9mm x 3.90mm x 2mm	160	Right Angle Surface Mount	IP67
	TL6400	Life Cycles: 30 - 50,000 Cycles Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100MΩ Min. at 100VDC	50mA, 12VDC	0.15mm ± 0.10mm	6mm x 3.4mm	160gf ± 50gf 50,000 cycles 260gf ± 70gf 30,000 cycles	SMT (J-Bend)	IP67
	TL6700	Life Cycles: 500,000 (160gf), 100,000 (260gf) Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max. Insulation Resistance: 100MΩ Min.	50mA, 12VDC	0.35mm	6.9mm x 6.2mm	160, 260	SMT (Gull Wing J-Bend)	IP67
	TL6800	Life Cycles: 500,000 & 1,000,000 Operating Temp: -40°C to 90°C Contact Resistance: 100mΩ Max. (Initial) Insulation Resistance: 100MΩ Min. at 100VDC	50mA, 12VDC	0.25mm +0.15mm	6.2mm x 6.3mm	160gf 1,000,000 260gf 500,000	SMT (J-Bend)	IP67
	TL9100	Life Cycles: 100,000(200gf); 30,000(350gf) Operating Temp: -40°C to 85°C Contact Resistance: 100mΩ Max Insulation Resistance: 100MΩ @500 VDC.	50mA, 12VDC	1.3mm	6.0mm x 6.0mm	200, 350	SMT (J-Bend)	✗
	TL9210	Life Cycles: 100,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ initial Insulation Resistance: 100MΩ Min. @100VDC	50mA, 12VDC	1.3mm	6.0mm x 6.0mm	200	SMT (J-Bend)	✗
	TL9320	Life Cycles: 500,000 Operating Temp: -20°C to 70°C Contact Resistance: 100mΩ Max.	50mA, 16VDC	0.9mm	8.4mm x 8.4mm x 3.95mm	400	Surface Mount	IP67

Specifications subject to change without notice

SNAP ACTION



Snap Action switches, also called microswitches, are switch devices that can open and/or close an electrical circuit at a rapid speed. Triggered by an external force, either human or physical object, which is then applied to an actuator that requires very little pressure to operate.

Snap Action switches offer multiple actuator options, such as pin plunger, lever, roller or simulated roller lever. Reliability and long operating life make snap action switches ideal for counter top appliances, timer controls, vending machines, gaming devices, power tools and industrial controls.

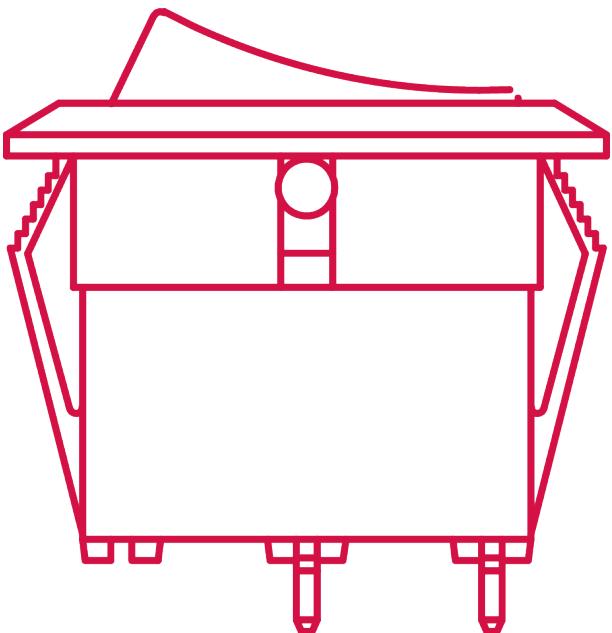
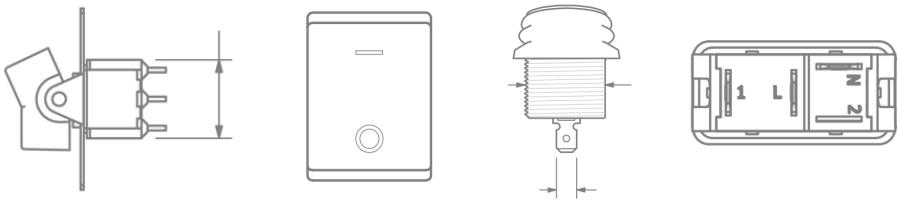


SNAP ACTION

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	FUNCTIONS	OPERATING FORCE	ACTUATOR OPTIONS	TERMINAL OPTIONS	BODY OPTIONS
	LS	<p>Electrical Life: 50,000 Cycles Mechanical Life: 1,000,000 Cycles Operating Temp: -25°C to 85°C Contact Resistance: 100mΩ Max.</p>	<p>Silver cURus: 15A, 125/250VAC Gold: 0.4VA, 20V (AC or DC)</p>	<p>SPST N.O. SPST N.C. SPDT</p>	<p>25-250 (*Depending upon actuator)</p>	<p>Pin Plunger Lever Roller Simulated Roller</p>	<p>Quick Connect Right Angle PCB Pin Left Angle PCB Pin Solder Lug</p>	<p>Width: 27.9mm Height: 15.9mm Depth: 10.3mm</p>
	LS25	<p>Electrical Life: 10,000 Cycles Mechanical Life: 1,000,000 Cycles Operating Temp: -25°C to +85°C Contact Resistance: 100mΩ MAX. (Initial)</p>	<p>125/250VAC @ 25A</p>	SPDT	<p>90-400 (*Depending upon actuator)</p>	<p>Round Pin Plunger, Lever Straight, Lever Simulated Roller, Lever Roller</p>	<p>Solder Lug Quick Connect (0.187" or 0.250")</p>	<p>Width: 27.8mm Height: 15.9mm Depth: 10.3mm</p>
	MS	<p>Electrical Life: 50,000 Cycles Mechanical Life: 1,000,000 Cycles Operating Temp: -25°C to 85°C Contact Resistance: 100mΩ Max.</p>	<p>Silver cURus: 5A, 125/250VAC Gold: 0.4VA, 20V (AC or DC)</p>	<p>SPST N.O. SPDT</p>	<p>10-295 (*Depending upon actuator)</p>	<p>Pin Plunger Lever Roller Simulated Roller Custom</p>	<p>Quick Connect PCB Pin Right Angle PCB Pin Left Angle PCB Pin Solder Lug</p>	<p>Width: 19.8mm Height: 10.6mm Depth: 6.4mm</p>
	SS	<p>Electrical Life: 10,000 Cycles Mechanical Life: 1,000,000 Cycles Operating Temp: -25°C to 75°C Contact Resistance: 100mΩ Max.</p>	<p>Silver cURus: 3A, 125VAC 1.5A, 250VAC 0.1A, 5VDC Gold: 0.4VA, 20V (AC or DC)</p>	SPDT	<p>15-130 (*Depending upon actuator)</p>	<p>Pin Plunger Lever Simulated Roller</p>	<p>PCB Pin PCB Retention Right Angle PCB Pin Left Angle PCB Pin Solder Lug</p>	<p>Width: 12.7mm Height: 6.5mm Depth: 5.75mm</p>
	TS	<p>Electrical Life: 50,000 Cycles Mechanical Life: 100,000 Cycles Operating Temp: -25°C to 85°C Contact Resistance: 300mΩ Max.</p>	<p>300mA, 6VDC</p>	SPDT	<p>20</p>	<p>Lever</p>	<p>Vertical PCB Pin Right Angle PCB Pin Short Left Angle PCB Pin Short Right Angle PCB Pin Long Left Angle PCB Pin Long</p>	<p>Width: 8.2mm Height: 6.6mm Depth: 2.7mm</p>
	TS2	<p>Electrical Life: 3,000,000 Cycles Mechanical Life: 3,000,000 Cycles Operating Temp: -25°C to 85°C Contact Resistance: 300mΩ Max.</p>	<p>100mA, 125VAC 100mA, 48VDC</p>	SPST	<p>70</p>	<p>Pin Plunger</p>	<p>SMT Terminals</p>	<p>Width: 8.6mm Height: 3.0mm Depth: 4.8mm</p>
	WS	<p>Electrical Life: 10,000 Cycles Mechanical Life: 1,000,000 Cycles Operating Temp: -25°C to 85°C Contact Resistance: 100mΩ Max. Ingress Protection: IP67</p>	<p>0.5A, 42VDC 1A, 24VDC 2A, 12VDC 3A, 125/250VAC</p>	SPDT	<p>50-70 (*Depending upon actuator)</p>	<p>Pin Plunger Lever Simulated Roller</p>	<p>PCB Pins Soldering Lugs</p>	<p>Width: 13.3mm Height: 7.0mm Depth: 5.3mm</p>
	WS1	<p>Electrical Life: 100,000 Cycles MIN. Mechanical Life: 500,000 Cycles MIN Operating Temp: -40°C to 85°C Contact Resistance: 50mΩ Max. Ingress Protection: IP67</p>	<p>01 = 0.1A @ 48VDC 0.1A @ 125VAC, 250VAC 3 = 3A @ 12VDC 3A @ 125VAC, 250VAC</p>	SPDT	<p>130 gf MAX.</p>	<p>Pin Plunger</p>	<p>Solder Lug Wire Leads</p>	<p>Width: 14.7mm Height: 6.3mm Depth: 5.4mm</p>
	WS2	<p>Electrical Life: 100,000 Cycles MIN. Mechanical Life: 500,000 Cycles MIN Operating Temp: -25°C to 85°C Contact Resistance: 50mΩ Max. Ingress Protection: IP67</p>	<p>2A @ 30VDC 2A @ 250VAC</p>	SPDT	<p>130 gf MAX.</p>	<p>Pin Plunger</p>	<p>Solder Lug Quick Connect PCB Pin</p>	<p>Width: 19.8mm Height: 10mm Depth: 6.3mm</p>

Specifications subject to change without notice

ROCKER



Rocker switches are commonly used as an on/off switch that rocks (rather than trips) when pressed, meaning the rocker opens or closes the circuit. This means that one side of the Rocker switch is raised while the other side is depressed, much like a seesaw or rocking horse.

E-Switch offers a range of Rocker switches, from miniature size with low current ratings to industrial use switches with high power and horsepower ratings. Several Rocker switches provide an IP rating of IP67, IP55 or IP54 depending the switch series.

Panel mount installation is most common, however, a few E-Switch Rocker series provide PC mount options. Additional options include non-illuminated or illuminated, plus actuator shapes such as rectangle, round, oval and paddle style actuators.



ROCKER | PART 1 - SUBMINIATURE

E-SWITCH®	ELECTRICAL RATINGS	POLES / FUNCTIONS	ACTUATOR OPTIONS	MOUNTING OPTIONS	TERMINAL OPTIONS	INGRESS PROTECTION	
	300	Silver: 5A, 120VAC [cURus] 5A, 28VDC 2A, 250VAC [cURus] Gold: 0.4VA, 20V (AC or DC)	1, 2, 3, or 4 Pole: On-On On-(On) On-Off-On (On)-Off-(On) On-Off-(On) 2 Pole: On-On-On On-On-(On) 4 Pole: On-On-On	Paddle Rocker	Panel Mount: Quick Connect Vertical Solder Lug PC Mount: Horizontal Right Angle Horizontal Right Angle with Bracket Vertical Vertical Right Angle Vertical with Bracket	PCB Pin Quick Connect Solder Lug	X
	300A	Silver: 5A, 120VAC [cURus] 5A, 28VDC 2A, 250VAC [cURus] Gold: 0.4VA, 20V (AC or DC)	1 or 2 Pole: On-On On-(On) On-Off-On (On)-Off-(On) On-Off-(On)	Paddle Rocker	Panel Mount: Quick Connect Vertical Solder Lug PC Mount: Horizontal Right Angle Horizontal Right Angle with Bracket Vertical Vertical Right Angle Vertical with Bracket	PCB Pin Quick Connect Solder Lug	IP67
	400	Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus] Gold: 0.4VA, 20V (AC or DC)	1 Pole: On-On On-(On) On-Off-On (On)-Off-(On) On-Off-(On) Off-On 2 Pole: On-On On-(On)	Rocker	Panel Mount: Vertical Solder Lug PC Mount: Horizontal Right Angle Horizontal Right Angle with Bracket Vertical Vertical Right Angle Vertical Right Angle with Bracket Vertical with Bracket	PCB Pin Solder Lug	X
	400A	Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus] Gold: 0.4VA, 20V (AC or DC)	1 Pole: On-On On-(On) On-Off-On (On)-Off-(On) On-Off-(On) Off-On 2 Pole: On-On On-(On)	Rocker	Panel Mount: Vertical Solder Lug PC Mount: Horizontal Right Angle Horizontal Right Angle with Bracket Vertical Right Angle Vertical Right Angle with Bracket Vertical with Bracket	PCB Pin Solder Lug	IP67
	400B	Silver: 3A, 120VAC [cURus] 1A, 250VAC [cURus]	1 Pole: On-On On-(On) On-Off-On (On)-Off-(On) On-Off-(On)	Rocker	PC Mount: Surface Mount	SMT	IP67
	400U	Gold: 0.4VA@ 24V AC or DC	2 Pole: On-None-On	Rocker Lever	PC Mount: Vertical Right Angle, PC thru-hole Right Angle, PC thru-hole PC thru-hole	PCB Pin	X

Specifications subject to change without notice

ROCKER | PART 2 - RECTANGULAR PANEL MOUNT

E-SWITCH®	ELECTRICAL RATINGS	POLES / FUNCTIONS	PANEL CUTOUT	ACTUATOR OPTIONS	ILLUMINATION OPTIONS	INGRESS PROTECTION	
	R1966 15A, 125VAC T65 [cURus]	1 Pole: On-Off On-Off-On Off-(On) On-Off-(On)	On-On (On)-(Off) On-(On) (On)-Off-(On)	13mm x 19.2mm	Curved	Full	X
	R1973 9A, 125VAC T65 [cURus]	1 Pole: On-Off 2 Pole: On-Off		13mm x 19.2mm	Curved	Full	X
	R4 20A, 125VAC T65 [cURus]	1 Pole: On-Off On-Off-On Off-(On) On-(Off)	On-On (On)-(On) (On)-Off-(On)	11mm x 30mm	Curved	Full Dott	X
	R5 20A, 125VAC T65 [cURus]	2 Pole: On-Off On-Off-On Off-(On) On-(Off)	On-On (On)-(On) (On)-Off-(On) On-Off-(On)	22mm x 30mm	Curved	Full	X
	R6 10A, 125VAC T65 [cURus]	1 Pole: On-Off	(On)-Off	6.65mm x 19.2mm	Curved	X	X
	R7 16(8)A, 125/250VAC [cURus]	1 or 2 Pole: On-Off (On)-Off On-(Off) On-Off-On	On-On (On)-On (On)-Off-On (On)-Off-(On)	21.1mm x 37mm	Hard PC or TPR	Multiple Lens Options	IP67
	RA1 16A, 125VAC 1/3HP T105 [cURus]	1 Pole: Off-On On-(On) Off-(On) On-Off-On	On-(Off) On-Off-(On) On-On (On)-Off-(On)	13mm x 19mm	Bi-Color Curved Custom	Full Signal Light	IP54 with cap
	RA4 16A, 125VAC 1/3HP T105 [cURus]	1 or 2 Pole: Off-On Off-(On) On-(Off)	On-On On-Off-On On-(On)	22mm x 19.2mm	Curved Paddle	Full	IP54 with cap
	RA8 16A, 125VAC 1/3HP T105 [cURus]	1 Pole: Off-On 2 Pole: Off-On		13mm x 19mm	Bi-color Curved	Full Signal Light	IP54 with cap

Specifications subject to change without notice

ROCKER | PART 3 - RECTANGULAR PANEL MOUNT

E-SWITCH®		ELECTRICAL RATINGS	POLES / FUNCTIONS	PANEL CUTOUT	ACTUATOR OPTIONS	ILLUMINATION OPTIONS	INGRESS PROTECTION	
	RB1	20A, 125VAC 1/4HP T65 [cURus]	1 Pole: Off-On On-(On) Off-(On) On-Off-On	On-(Off) On-Off-(On) On-On (On)-Off-(On)	11mm x 30mm	Curved Flat	Dot Full Signal Light	IP54 with cap
	RB2	20A, 125VAC 1/4HP T65 [cURus]	1 or 2 Pole: Off-On On-Off-On (On)-Off-(On)	On-On On-Off-(On)	22mm x 30mm	Curved Flat	Dot Full Signal Light	IP54 with cap
	RB3	A - 16(8)A, 125/250VAC, T55, IP67 B - 20(8)A, 125/250VAC, T55, IP67 C - 25(8)A, 125/250VAC, T55, IP67 D - 16A, 6-48VDC, T55, IP67 E - 20A, 6-36VDC, T55, IP67 1 - 16(8)A, 125/250VAC, T125/55 2 - 20(8)A, 125/250VAC, T125/55 4 - 16A, 6-48VDC, 40T125/55 5 - 20A, 6-36VDC, 40T125/55	1 Pole: On-Off On-Off-On (On)-On (On)-Off-On	On-On (On)-Off (On)-Off-(On)	13.8mm x 30.2mm	Flat Black or White	Single or Double LED	IP67
	RB5	A - 16(8)A, 125/250VAC, T55, IP67 B - 20(8)A, 125/250VAC, T55, IP67 C - 25(8)A, 125/250VAC, T55, IP67 D - 16A, 6-48VDC, T55, IP67 E - 20A, 6-36VDC, T55, IP67 1 - 16(8)A, 125/250VAC, T125/55 2 - 20(8)A, 125/250VAC, T125/55 4 - 16A, 6-48VDC, 40T125/55 5 - 20A, 6-36VDC, 40T125/55	2 Pole: On-Off On-Off-On (On)-On (On)-Off-On	On-On (On)-Off (On)-Off-(On)	22mm x 30.2mm	Flat Black or White	Single or Double LED	IP67
	RBW2	16(16)A, 125VAC 5E4 T85 [cURus]	2 Pole: Off-On	*On-On	22mm x 30mm	Curved	Full	IP66
	RD1	16A, 125VAC 1/3HP T105 [cURus]	1 Pole: Off-On		6.8mm x 19.2mm	Curved	✗	✗
	RSC	20A, 125VAC 1/4HP T105 [cURus]	1 Pole: Off-On Off-(On)	On-On	28.6mm x 13.9mm 27.2mm x 12.1mm 27.2mm x 13.9mm 28.6mm x 12.1mm	Bi-Color Curved Flat	Full Signal Light	N/A
	RVW	20A, 125VAC [cURus UL508] Momentary Switches: 1.5HP, 220-240VAC [cURus UL508]	20A, 125VAC [cURus UL508] Momentary Switches: 1.5HP, 220-240VAC [cURus UL508]		21mm x 36.8mm	Curved	✗	IP54
	WB2	Maintained Switches: 20A, 125/250VAC T65/T85 [cURus] Momentary Switches: 20A, 125/250VAC T65/T85 [cURus]	Maintained Switches: 20A, 125/250VAC T65/T85 [cURus] Momentary Switches: 20A, 125/250VAC T65/T85 [cURus]		22mm x 30mm	Curved	✗	IP55

Specifications subject to change without notice

ROCKER | PART 4 - ROUND PANEL MOUNT

E-SWITCH®		ELECTRICAL RATINGS	POLES / FUNCTIONS	PANEL CUTOUT	ACTUATOR OPTIONS	ILLUMINATION OPTIONS	INGRESS PROTECTION	
	RE1	16A, 125VAC 1/3HP T105 [cURus]	1 Pole: Off-On On-On	On-Off-On	13.5mm x 23.3mm (Oval)	Curved	Full	X
	RR1	16A, 125VAC 1/3HP T105 [cURus]	1 Pole: Off-On Off-(On) On-(Off) On-Off-(On)	On-On On-Off-On On-(On)	20mm	Curved	Dot Full Signal Light	IP54 with cap
	RR3112	16A, 125VAC T65 [cURus] 10A, 250VAC T65 [cURus]	1 Pole: On-Off On-Off-On	On-On Off-(On)	20.2mm	Curved	Full	X
	RR3130	10A, 125VAC T65 [cURus] 6A, 250VAC T65 [cURus]	1 Pole: On-Off 2 Pole: On-On	On-On	18.2mm	Curved	X	X
	RR3402	6A, 125VAC [cURus] 3A, 250VAC [cURus]	1 Pole: On-Off On-Off-On	On-On	15mm	Paddle	X	X

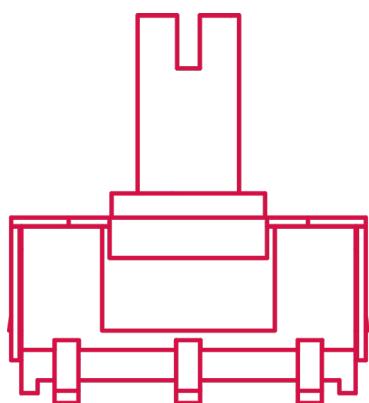
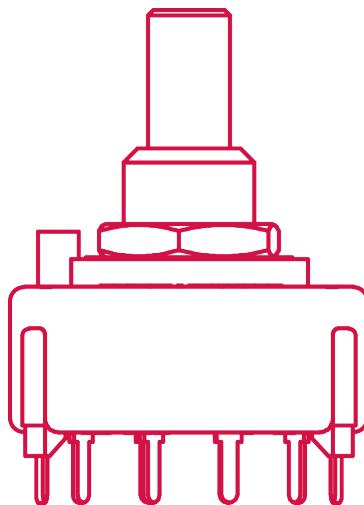
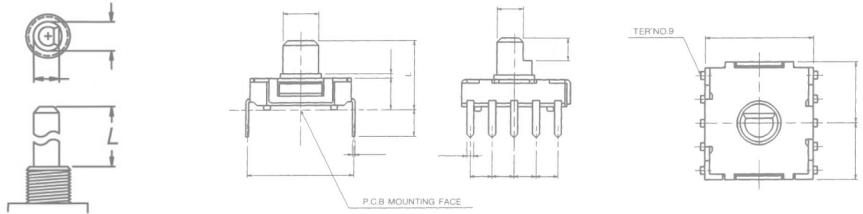
Specifications subject to change without notice

ROCKER | PART 5 - ROUND PANEL MOUNT

E-SWITCH®		ELECTRICAL RATINGS	POLES / FUNCTIONS	PANEL CUTOUT	ACTUATOR OPTIONS	ILLUMINATION OPTIONS	INGRESS PROTECTION
	RR5	20A, 125VAC T65 [cURus] 12A, 250VAC T65 [cURus]	1 Pole: Off-On Off-(On)	20mm	Curved	×	×
	RR8	16A, 125VAC 1/3HP T105 [cURus] 10A, 250VAC 1/3HP T105 [cURus]	1 Pole: Off-On 2 Pole: Off-On	20mm	Curved	Full	×
	RRA	15A, 125VAC 1/3HP T105 [cURus] 10A, 250VAC 1/3HP T105 [cURus]	1 Pole: Off-On On-Off-On 2 Pole: Off-On On-Off-On	22mm	Curved	Full	Capped to provide protection from the elements at an IP54 ingress protection rating
	RRG3	16A, 125VAC 1/3HP T105 [cURus] 10A, 250VAC 1/3HP T105 [cURus]	1 Pole: Off-On Off-(On) On-(Off) On-Off-(On)	20mm	Curved	×	×
	RRGA	16A, 125VAC 1/3HP T105 [cURus] 10A, 250VAC 1/3HP T105 [cURus]	1 Pole: Off-On Off-(On) On-(Off) On-Off-(On)	22mm	Curved	×	×
	RRS20	16(8)A, 125/250VAC ~T55 (cURs,ENEC15) 10(4)A, 125/250VAC ~T55 (cURs,ENEC15) 16A, 30VDC T55 (cURs,ENEC15)	SPST SPDT	20mm	6 Actuator Colors 6 Marking Options	Full Actuator: White, Orange, Green, Red, Blue	IP68 from Panel

Specifications subject to change without notice

ROTARY



Rotary Switches use a rotating mechanism to select one of several positions. E-Switch products can feature up to four poles and 12 positions, and there are many actuator style and length options to choose from, as well as thru hole and solder lug termination styles.

These switches are commonly used to control and configure circuits in a wide range of applications. Rotary DP switches are used in situations where manual configuration is necessary, and the binary-coded positions allow for a straightforward way to set various options in circuits.

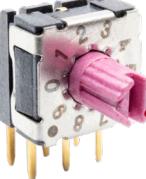
E-Switch rotary DIPs include up to 16 positions, PCB termination and IP67 ratings.



ROTARY & ROTARY DIP

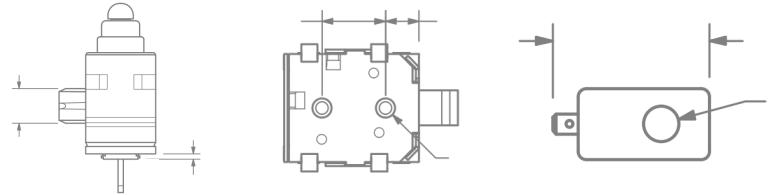
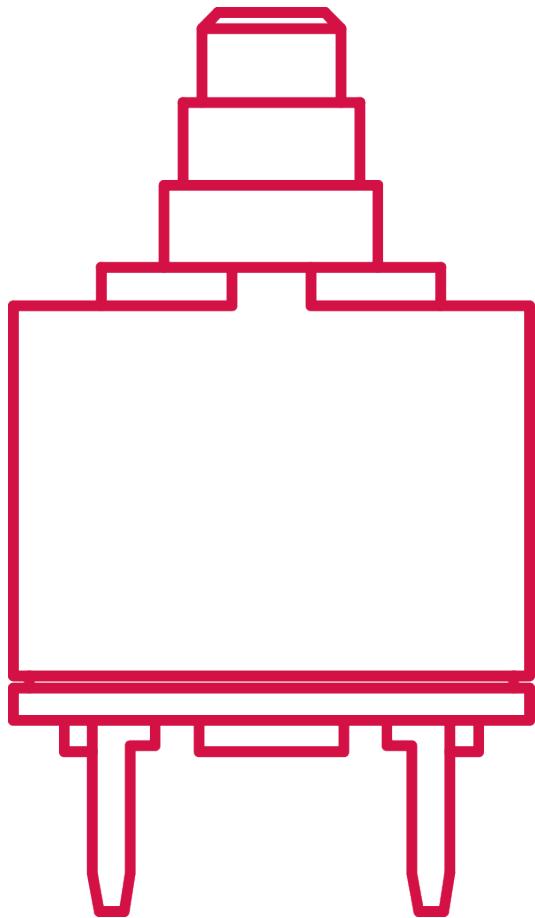
E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	POLES / FUNCTIONS	ACTUATOR OPTIONS	CONTACT OPTIONS	TERMINAL OPTIONS
	KC	<p>Mechanical Life: 10,000 Cycles</p> <p>Operating Force: 8.6 N/cm</p> <p>Contact Resistance: 25mΩ initial @ 2-4 VDC, 100mA</p>	350mA, 125VAC; 150mA, 250VAC	1 to 4 poles; 1 to 12 positions	Flat Round Slotted Multiple lenght options	Silver Gold	Through Hole
	KC1901	<p>Mechanical Life: 10,000 Cycles</p> <p>Operating Force: 0.5N/cm</p> <p>Contact Resistance: 50mΩ initial @ 2-4 VDC, 100mA</p>	100mA, 16VDC	SP9T - single pole, 9 positions	9.8mm Shaft Actuator	Silver	Through Hole

ROTARY DIP

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	POSITIONS	ACTUATOR OPTIONS	TERMINAL OPTIONS	INGRESS PROTECTION	PACKAGING
	DR	<p>Electrical Life: 15,000 Cycles</p> <p>Operating Force: 200gf-cm</p> <p>Operating Temp: -25°C to 80°C</p> <p>Contact Resistance: 100mΩ Max.</p>	Switch: 25mA, 24VDC; Carry: 100mA, 50VDC	10 or 16	Flush Long Short	Through Hole Through Hole Right Angle Surface Mount Snap-In Through Hole		Bulk Tube Tape & Reel
	RDM	<p>Life Expectancy: 25,000 Steps</p> <p>Operating Force: 250gf max</p> <p>Operating Temp: -60°C to 125°C</p> <p>Contact Resistance: 80mΩ Max.</p>	Switch: 42VDC, 100mA; Carry: 42VDC, 400mA	10 or 16	Arrow Flush Shaft 4.5mm High Shaft 4.2mm High	Through Hole Through Hole Right Angle Surface Mount	IP67	Tube Tape & Reel
	RDT	<p>Life Expectancy: 10,000 Steps</p> <p>Operating Force: 700 gf-cm Max</p> <p>Operating Temp: THT: -40°C to 85°C SMT: -60°C to 125°C</p> <p>Contact Resistance: 80mΩ Max.</p>	Switch: 42VDC, 150mA; Carry: 42VDC, 200mA	4, 6, 8, 10, or 16	Arrow Flush Arrow Shaft Cross Arrow 0.1mm High Grey Seg- ment Wheel Black Seg- ment Wheel	Through Hole Through Hole Right Angle Surface Mount	IP67 (A, B, D Actuators)	Tube Tape & Reel

Specifications subject to change without notice

DETECTOR



Detector switches are commonly employed in various applications where the detection of a specific state or object is necessary, such as industrial automation, security systems and electronic devices.

The specific operation of a detector switch depends on its type and technology. For example, in a limit switch, the movement of an actuator might physically open or close electrical contacts.

These types of switches come with long life and sealed options, as well as subminiature and ultra-miniature sizes. A variety of termination styles are available, ensuring the right fit for your application.

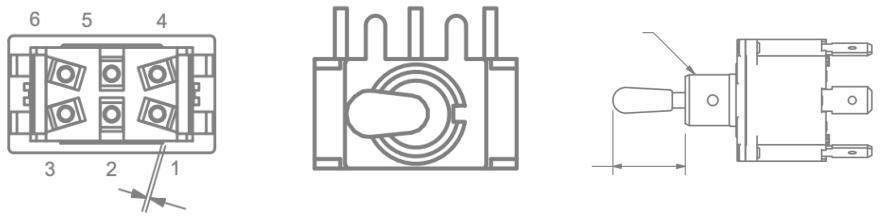
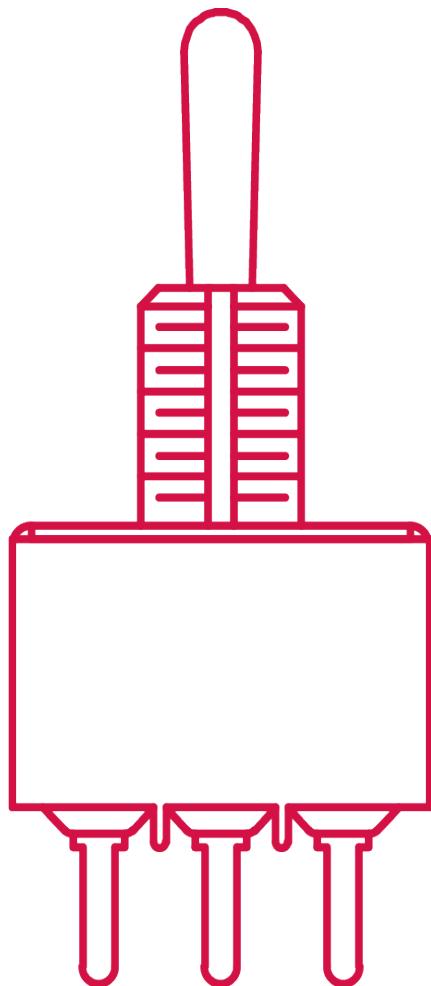


DETECTOR

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	POLES / FUNCTIONS	GENERAL INFO	INGRESS PROTECTION
	900	<p>Life Expectancy: 50,000 cycles typical</p> <p>Operating Temp: -25°C to +85°C</p> <p>Operating Force: 50 gf max</p> <p>Contact Resistance: 80mΩ max. typical @ 2-4 VDC 100mA</p>	100mA, 50VDC	SPST or SPST-NO circuit	2.0mm Travel	X
	MR1000	Contact resistance: 150mΩ	0.5A, 10V (AC or DC)	SPST-NO circuit	(2) 18 inch 22AWG Wire Leads	IP67
	PP1	<p>Electrical Life: 6,000 Cycles</p> <p>Mechanical Life: 50,000 Cycles</p> <p>Operating Temp: 0°C to 85°C</p> <p>Contact Resistance: 10mΩ Max.</p>	16A 125VAC; UL, cUL 12A 250VAC; UL, cUL 1HP 125/250VAC; UL, cUL	SPDT, push-pull or momentary functions	Panel Cutout: 28.4mm x 13.5mm	IP40
	PP2	<p>Electrical Life: 6,000 Cycles</p> <p>Mechanical Life: 50,000 Cycles</p> <p>Operating Temp: 0°C to 85°C</p> <p>Contact Resistance: 10mΩ Max.</p>	16A 125VAC; UL, cUL 12A 250VAC; UL, cUL 1HP 125/250VAC; UL, cUL 10R(4)A 277VAC 5E4; UL, cUL	DPDT, push-pull or momentary functions	Panel Cutout: 36.5mm x 13.5mm	IP40
	TD1146	<p>Electrical Life: 30,000 Cycles</p> <p>Operating Temp: -25°C to 70°C</p> <p>Operating Force: <50 gf</p> <p>Contact Resistance: 100mΩ Max. Initial</p>	1mA, 5VDC	SPST-NO circuit	3.0mm Travel	X
	TD1150	<p>Electrical Life: 300,000 Cycles</p> <p>Operating Temp: -40°C to 85°C</p> <p>Operating Force: 35gf</p> <p>Contact Resistance: 500 mΩ</p>	100mA @ 12VDC	SPST-NO circuit; momentary function	0.5mm Travel (electrical) 2.5mm Travel (full stroke)	IP67
	TD1250	<p>Mechanical Life: 500,000 Cycles</p> <p>Operating Force: 160gf max</p> <p>Operating Temp: -40°C to 85°C</p> <p>Contact Resistance: Solder: 1Ω max. Initial PCB: 500mΩ max. Initial</p>	1mA, 5VDC ~ 50mA, 16VDC	SPST-NO circuit; momentary function	Actuators: Pin Plunger Straight Lever S-Shaped Lever	IP67
	TD1260	<p>Operating Life: 50,000 Cycles</p> <p>Operating Force: 35gf Max.</p> <p>Operating Temp: -25°C to 55°C</p> <p>Contact Resistance: 3Ω Max.</p>	1mA @ 5VDC	SPST-NO SPST-NC	J-Lead Termination Angled Lever Actuation Compact size	X
	TD4700	<p>Life Expectancy: 100,000 Cycles</p> <p>Operating Force: 50gf max</p> <p>Operating Temp: -40°C to 85°C</p> <p>Contact Resistance: 2Ω Max. Initial</p>	1mA, 5VDC	SPST-NO circuit	2.2mm Travel	X

Specifications subject to change without notice

TOGGLE



The Toggle switch is characterized by the presence of a manually operated handle or lever which controls the flow of electrical current from power supply to device, such as a household appliance.

E-Switch offers Toggle switches with multiple options such as actuators, bushings and terminals, as well as low to high current ratings and some with horsepower ratings for industrial applications.

Smaller size toggles are often used in equipment for telecommunications, networking, instrumentation and medical devices. High power Toggles are used in industrial control panels, motor-sports vehicles, commercial appliances, restaurant equipment and recreational vehicles.



TOGGLE | PART 1 - MINIATURE

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	POLES / FUNCTIONS	ACTUATOR OPTIONS	BUSHING OPTIONS	TERMINAL OPTIONS	INGRESS PROTECTION
	100	<p>Electrical Life: 6,000 Cycles Mechanical Life: 40,000 Cycles Operating Temp: -30°C to 85°C Contact Resistance: 10mΩ Max.</p>	<p>Silver: 5A, 120VAC [cURus] 5A, 28VDC 2A, 250VAC [cURus]</p> <p>Gold: 0.4VA, 20V Max. (AC or DC)</p>	<p>1 or 3 Pole: On-On (On-On) On-Off-On (On)-Off-(On) On-Off-(On)</p> <p>2 or 4 Pole: On-On (On-On) On-Off-On (On)-Off-(On) On-Off-(On) On-On-On On-On-(On) (On)-On-(On)</p>	Flat Locking Metal Plastic	High Torque Non-Threaded Threaded Splash Proof	Quick Connect Right Angle PCB Pin Solder Lug Vertical PCB Pin Wire Wrap	
	100A	<p>Electrical Life: 6,000 Cycles Mechanical Life: 30,000 Cycles Operating Temp: -30°C to 85°C Contact Resistance: 10mΩ Max.</p>	<p>Silver: 5A, 120VAC [cURus] 5A, 28VDC 2A, 250VAC [cURus]</p> <p>Gold: 0.4VA, 20V Max. (AC or DC)</p>	<p>1 Pole: On-On (On-On) On-Off-On (On)-Off-(On) On-Off-(On)</p> <p>2 Pole: On-On (On-On) On-Off-On (On)-Off-(On) On-Off-(On)</p>	Metal Plastic	Non-Threaded Threaded	Right Angle PCB Pin Solder Lug Vertical PCB Pin Wire Wrap	IP67
	200	<p>Electrical Life: 6,000 Cycles Mechanical Life: 30,000 Cycles Operating Temp: -20°C to 85°C Contact Resistance: 20mΩ Max.</p>	<p>Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus]</p> <p>Gold: 0.4VA, 20V Max. (AC or DC)</p>	<p>1 Pole: On-On (On-On) On-Off-On (On)-Off-(On) On-Off-(On) Off-On</p> <p>2 Pole: On-On (On-On) On-Off-On</p>	Metal	Non-Threaded Threaded	Right Angle PCB Pin Solder Lug Vertical PCB Pin	
	200A	<p>Electrical Life: 6,000 Cycles Mechanical Life: 30,000 Cycles Operating Temp: -30°C to 85°C Contact Resistance: 20mΩ Max.</p>	<p>Silver: 3A, 120VAC [cURus] 3A, 28VDC 1A, 250VAC [cURus]</p> <p>Gold: 0.4VA, 20V Max. (AC or DC)</p>	<p>1 Pole: On-On (On-On) On-Off-On (On)-Off-(On) On-Off-(On) Off-On</p> <p>2 Pole: On-On (On-On) On-Off-(On)</p>	Metal Plastic	Non-Threaded	Right Angle PCB Pin Vertical PCB Pin	IP67
	200B	<p>Electrical Life: 6,000 Cycles Mechanical Life: 50,000 Cycles Operating Temp: -30°C to 85°C Contact Resistance: 20mΩ Max.</p>	<p>Gold: 0.4VA, 20V Max. (AC or DC)</p>	<p>1 Pole: On-(On) On-Off-On (On)-Off-(On) On-Off-(On)</p>	Metal Plastic	Non-Threaded	Surface Mount	IP67
	200R	<p>Electrical Life: 6,000 Cycles Mechanical Life: 40,000 Cycles Operating Temp: -30°C to 85°C Contact Resistance: 50mΩ Max.</p>	<p>Gold: 0.4VA, 48V Max. (AC or DC)</p>	<p>1 or 2 Pole: On-None-On On-None-(On) On-Off-On (On)-Off-(On) On-Off-(On)</p>	Metal	Non-Threaded	Surface Mount Right Angle PCB Pin Vertical Right Angle PCB Pin	
	200U	<p>Electrical Life: 40,000 Cycles Mechanical Life: 40,000 Cycles Operating Temp: -30°C to 85°C Contact Resistance: 100mΩ Max.</p>	<p>Gold: 0.4VA, 20V Max. (AC or DC)</p>	<p>1 or 2 Pole: Off-On (On-Off) On-Off-On</p>	Plastic	Non-Threaded	PCB Pin Right Angle PCB Pin Vertical Right Angle-PCB Pin	IP67

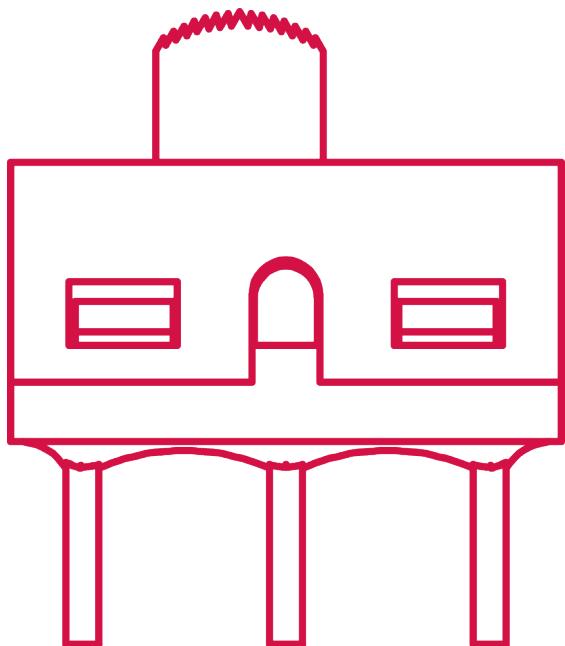
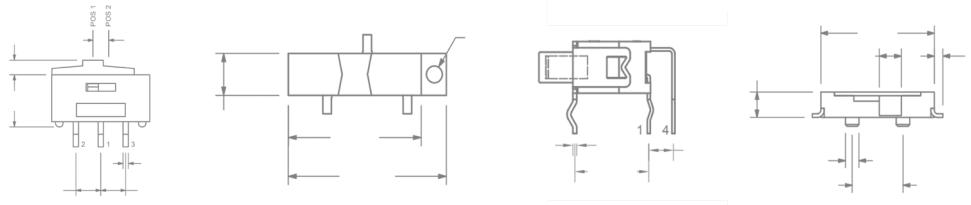
Specifications subject to change without notice

TOGGLE | PART 2 - PANEL MOUNT

E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	POLES / FUNCTIONS	ACTUATOR OPTIONS	BUSHING OPTIONS	TERMINAL OPTIONS	INGRESS PROTECTION
	ST1	<p>Electrical Life: 6,000 Cycles Mechanical Life: 100,000 Cycles Operating Temp: -20°C to 85°C Contact Resistance: 50mΩ Max.</p>	<p>Maintained Switches: 20A, 125VAC [cURus] 15A, 277VAC [cURus] 2HP, 125-277VAC [cURus] Momentary Switches: 20A, 125VAC [cURus] 15A, 277VAC [cURus] 1.5HP, 125-277VAC [cURus]</p>	<p>2 Pole: Off-On On-On Off-(On) On-Off-On On-Off-(On) (On)-Off-(On)</p>	Metal	Threaded	Quick Connect Screw Solder Lug Wire Leads	
	ST2	<p>Electrical Life: 6,000 Cycles Mechanical Life: 100,000 Cycles Operating Temp: -20°C to 85°C Contact Resistance: 50mΩ Max.</p>	<p>Maintained Switches: 20A, 125VAC [cURus] 15A, 277VAC [cURus] 2HP, 125-277VAC [cURus] Momentary Switches: 20A, 125VAC [cURus] 15A, 277VAC [cURus] 1.5HP, 125-277VAC [cURus]</p>	<p>2 Pole: Off-On On-On Off-(On) On-Off-On On-Off-(On) (On)-Off-(On)</p>	Metal	Threaded	Quick Connect Screw Solder Lug Wire Leads	
	ST3	<p>Electrical Life: 6,000 Cycles Mechanical Life: 100,000 Cycles Operating Temp: -20°C to 85°C Contact Resistance: 50mΩ Max.</p>	<p>Maintained Switches: 24A, 125VAC [cURus] 15A, 277VAC [cURus] 2HP, 125-277VAC [cURus]</p>	<p>3 Pole: Off-On On-On On-Off-On</p>	Metal	Threaded	Quick Connect Screw Solder Lug Wire Leads	
	ST4	<p>Electrical Life: 10,000 Cycles Operating Temp: -10°C to 55°C Contact Resistance: 50mΩ Max. initial</p>	16(8)A 125/250VAC µT55 20(8)A 125/250VAC µT55 20A 6-30VDC µT55	P1 - Off - (On) P2 - Off - On P3 - On - On P4 - (Off) - On P5 - (On) - Off P6 - (On) - ON P7 - ON - (On) P8 - On - Off - On P9 - On - Off - (On) P10 - (On) - Off - (On)	Metal Bat Plastic Bat	Threaded	Quick Connect Solder Lug Screw Terminals Wire Leads	IP68
	ST5	<p>Electrical Life: 10,000 Cycles Operating Temp: -10°C to 125°C Contact Resistance: 50mΩ Max. initial</p>	16(8)A 125/250VAC µT125/55 20(8)A 125/250VAC µT125/55 20A 6-30VDC µT125/55	P1 - Off - (On) P2 - Off - On P3 - On - On P4 - (Off) - On P5 - (On) - Off P6 - (On) - On P7 - On - (On) P8 - On - Off - On P9 - On - Off - (On) P10 - (On) - Off - (On)	Metal Bat Plastic Bat	Threaded	Quick Connect Solder Lug Screw Terminals	IP40

Specifications subject to change without notice

SLIDE

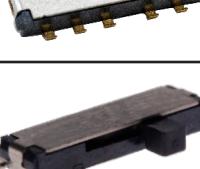
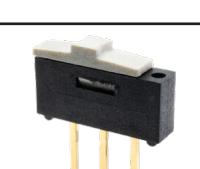
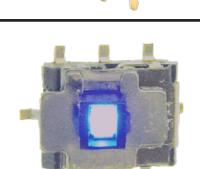


A slide switch utilizes a mechanical lever to turn an electrical current on and off. Depending on the number of positions available, the lever can move (slide) between an open or closed state. Compact in size, E-Switch offers Slide switches with multiple termination options.

Slide switches are commonly used in computer server/peripheral equipment, instrumentation devices, test and measurement equipment and consumer electronics and household appliances.

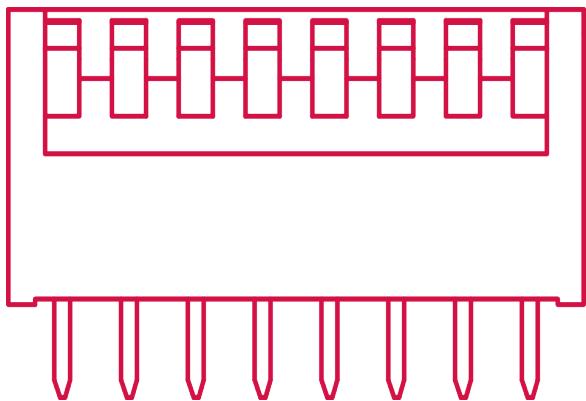
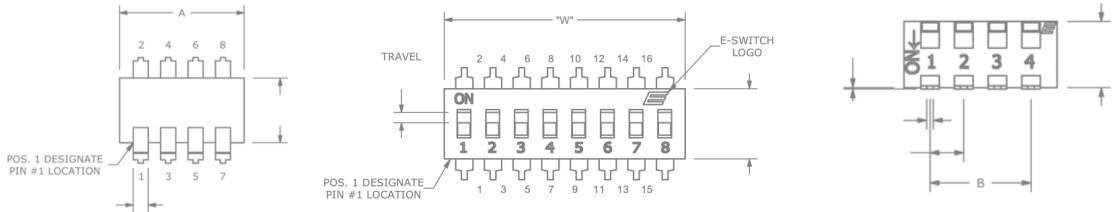


SLIDE

 E-SWITCH®		ELECTRICAL RATINGS	POLES	POSITIONS	TERMINAL OPTIONS	PANEL MOUNT CAPABLE	INGRESS PROTECTION
	500	Silver: 5A, 120VAC [cURus] 2A, 250VAC [cURus] Gold: 0.4VA, 20V (AC or DC)	Up to 2 Poles	Up to 3 Positions	PCB Pin Solder Lug Quick Connect Wire Wrap	●	✗
	500A	Silver: 3A, 120VAC [cURus] 1A, 250VAC [cURus] Gold: 0.4VA, 20V (AC or DC)	Up to 2 Poles	Up to 3 Positions	PCB Pin	✗	✗
	500R	Gold: 0.4VA, 20V (AC or DC)	Up to 2 Poles	Up to 3 Positions	Right Angle PCB Pin Vertical PCB Pin	✗	IP67
	600	Silver: 1A, 30VDC Gold: 0.4VA, 20V (AC or DC)	1 Pole	Up to 3 Positions	Right Angle PCB Pin Vertical PCB Pin Surface Mount	✗	✗
	EG	200mA, 30VDC	Up to 6 Poles	Up to 6 Positions	PCB Pin Surface Mount	●	✗
	EG1215	25mA, 24VDC	1 Pole	2 Positions	Surface Mount	✗	✗
	EG1312	30mA @15VDC	3 Pole	3 Positions	Surface Mount PCB	✗	✗
	EG1315	25mA, 24VDC	1 Pole	3 Positions	Surface Mount	✗	✗
	EGJ1210	300mA @ 24VDC	1 Pole	2 Positions	Through Hole Through Hole Right Angle Gull Wing Gull Wing Right Angle	✗	✗
	EGL2290	300mA, 6VDC	2 Poles	2 Positions	Surface Mount	✗	✗

Specifications subject to change without notice

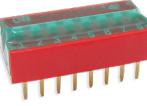
DIP



DIP switch refers to a set of electrical switches packaged in a small box or housing, which are arranged in a line or circle (rotary DIP). The function is to provide a range of electrical inputs to an electronic device based on the position of the individual switches within the line or circle. The main advantage of a DIP switch is the ability to quickly change positions.

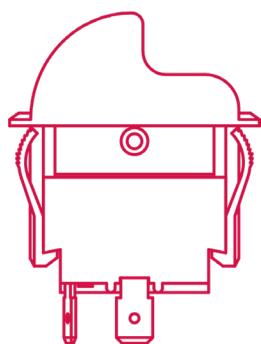
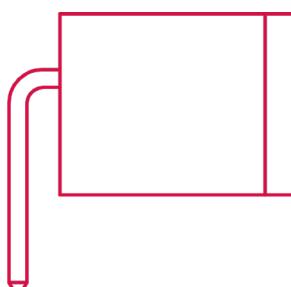
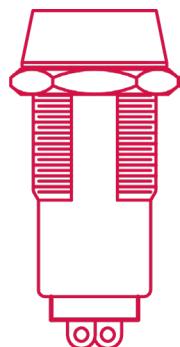
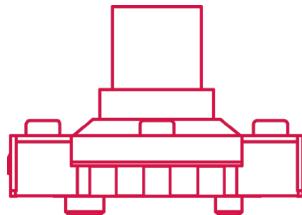
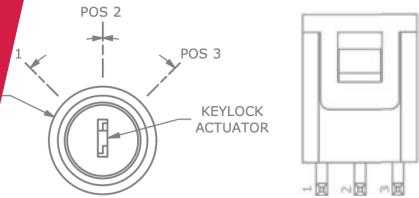
Common applications for DIP switches include computer server/peripheral equipment, instrumentation devices, test and measurement equipment, audio/visual equipment, consumer electronics and medical equipment.



E-SWITCH®		GENERAL RATINGS	ELECTRICAL RATINGS	DIMENSIONS (MM)	POSITIONS	ACTUATOR OPTIONS	MOUNTING OPTIONS	PACKAGING	TAPE SEAL / WASHABLE
	KAC	Life Cycles: 2,000 Operating Force: 800gf Max. Operating Temp: -20°C to 85°C	Switch: 25mA, 24VDC Carry: 100mA, 50VDC	Height: 5.0 Width: 6.0 Length: Varies per # of positions	2, 4, 6, 8, 10	Extended	SMT (Gull Wing) PCB Pin (Splayed)	Tape and Reel Tube	✗
	KAD	Life Cycles: 2,000 Operating Force: 1,000gf Max. Operating Temp: -20°C to 85°C	Switch: 25mA, 24VDC Carry: 100mA, 50VDC	Height: 3.70 (Gullwing) 7.20 (Straight) Width: 9.80 (Gullwing) 7.62 (Straight) Length: Varies per # of positions	4, 5, 8, 9, 10	Extended Recessed w/ or w/out Top Tape Seal	SMT (Gullwing) PCB Pin (Straight)	Tape and Reel Tube	✗
	KAE	Life Cycles: 2,000 Operating Force: 1,000gf Max. Operating Temp: -20°C to 85°C	Switch: 25mA, 24VDC Carry: 100mA, 50VDC	Height: 3.05 Width: 6.3 Length: Varies per # of positions	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12	Extended Recessed	SMT (Gull Wing) PCB Pin (Splayed or straight)	Tape and Reel Tube	✗
	KAG	Life Cycles: 1,000 Operating Temp: -40°C to 105°C	Switching 25mA @ 24VDC Non-Switching 100mA @ 50VDC	Height: 4.00 Width: 9.90 Length: Varies per # of positions	1, 2, 4, 8, 10	Extended Recessed w/ or w/out Top Tape Seal	SMT (Gull Wing)	Tape and Reel Tube	✗
	KAN	Life Cycles: 2,000 Operating Force: 500gf Max. Operating Temp: -40°C to 85°C	Switch: 25mA, 24VDC Carry: 100mA, 50VDC	Height: 1.5 Width: 4.5 Length: Varies per # of positions	2, 4, 6, 8, 10	Recessed	SMT (Gull Wing)	Tape and Reel Tube	✗
	KAP	Life Cycles: 2,000 Operating Force: 400gf Max. Operating Temp: -40°C to 85°C	Switch: 25mA, 24VDC Carry: 100mA, 50VDC	Height: 10.8 Width: 10.2 Length: Varies per # of positions	2, 3, 4, 5, 6, 7, 8, 9, 10, 12	Extended Recessed	PCB Pin	Tube	✗
	KAS	Life Cycles: 2,000 Operating Force: 1,000gf Max. Operating Temp: -40°C to 85°C	Switch: 25mA, 24VDC Carry: 100mA, 50VDC	Height: 6.0 Width: 9.9 Length: Varies per # of positions	2, 3, 4, 5, 6, 7, 8, 9, 10, 12	Extended Recessed	PCB Pin (Vertical & Right Angle)	Tube	✗

Specifications subject to change without notice

OTHER SWITCHES



Navigation switches: Used for navigating through menus, options or interfaces on devices.

Keylock switches: used to control and offer a physical barrier to prevent unauthorized operation of equipment.

Tilt switches: Detect changes in orientation and then trigger actions, like making or breaking a connection, in response.

Trigger switches: used in devices where a quick, manual activation is required.



OTHER SWITCHES

NAVIGATION

E-SWITCH®	ELECTRICAL RATINGS	PROFILE	POLES / FUNCTIONS	OPERATING FORCE	TRAVEL	OPERATING TEMP	TERMINAL OPTIONS	
	JS1300	50mA 12VDC	1.55mm	5-position 4-way directional Center select	Center: 320gf +80/-60gf; Tilt: 180gf ± 60gf	0.25 ± 0.15m	-40°C to 85°C	J Lead
	JS1400	50mA 12VDC	4.0mm 4.5mm 5.0mm 6.4mm	5-position 4-way directional Center select	Center: 360gf ± 60gf; Tilt: 160gf ± 50gf	5° +2.5°/-1° tilt 0.25mm +0.1/-0.2mm center	-40°C to 85°C	Flat Gull Wing Inverted Gull Wing (J Lead)
	JS5208	20mA 15VDC	12.2mm	5-position 4-way directional Center select	Center: 500gf ± 150gf; Tilt: 280gf ± 100gf	8° ± 2° tilt 1.0mm ± 0.2mm center	-20°C to 70°C	Gull Wing

KEYLOCK

E-SWITCH®	ELECTRICAL RATINGS	LOCK CONFIGURATIONS	KEY OPTIONS	CONTACT OPTIONS	ILLUMINATION OPTIONS	INGRESS PROTECTION	
	K0	Varies by Configuration	25+ Lock Configurations	Barrel or Flat Key 1 to 5,000 Key Codes (Depends on Configuration)	Silver Plated Options	N/A	N/A
	PVK4	2A, 24VDC	2 or 3 Positions	Key or Selector	Silver or Gold	White Red Orange Green Blue Yellow	IP65 (Maintained) IP40 (Return)

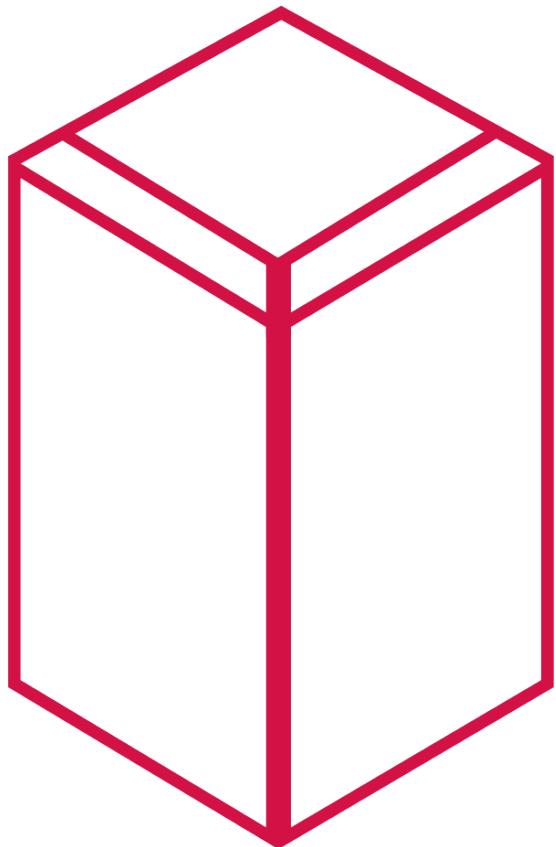
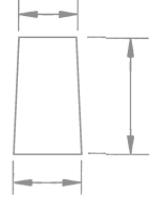
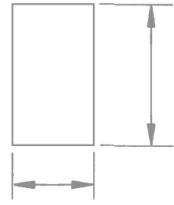
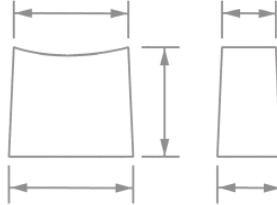
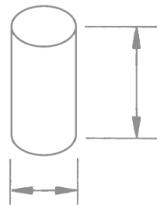
TIILT

E-SWITCH®	ELECTRICAL RATINGS	LIFE EXPECTANCY	POLES / FUNCTIONS	CONTACT MATERIAL	OPERATING TEMP	
	TM1000	20mA, 20V (AC or DC)	1,000,000 Cycles	SPST	Silver	-25°C to 70°C

TRIGGER

E-SWITCH®	CUSTOMIZATION	
	HY	Because each project has specific requirements, almost every trigger switch is custom. Contact us today to find out how we can create the ideal switch for your needs.

CAPS

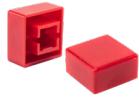


E-Switch offers a variety of caps (color, shape, mounting style) for supported switch types. Caps can add extra protection against harsh environments and use, while also potentially making desired adjustments to the sound and feel of the switch actuator.



CAPS | PART 1

E-SWITCH®		DIMENSIONS	COLORS	SUPPORTED SWITCHES
	1C	L: 9.90mm W: 5.00mm H: 9.00mm	Black Light Grey Dark Grey White Blue Red	LC LL3301 PBH TL1105 TL2201 TL4201 TL3301 TL58
	1D	L: 5.00mm W: 5.00mm H: 9.00mm	Black Light Grey Dark Grey White Blue Red	LC LL3301 PBH TL1105 TL2201 TL4201 TL3301 TL58
	1J	L: 7.50mm W: 7.50mm H: 2.30mm	Black White Clear	TL1240
	1R	L: 5.0mm W: 5.0mm H: 9.00mm	Black White Red	LC LL3301 PBH TL1105 TL2201 TL4201 TL3301 TL58
	1S	L: 5.00mm W: 5.00mm H: 9.0mm	Black White Red	LC LL3301 PBH TL1105 TL3301 TL58
	2J	L: 7.50mm W: 7.50mm H: 2.30mm	Black Red	TL1240
	320.08	L: 11.94mm W: 11.94mm H: 5.97mm	Black Grey White Blue Red Yellow Green	320 LC TL1100 TL2201 TL4201
	320.09	L: 15.87mm W: 15.87mm H: 7.78mm	Black Grey White Blue Red Yellow Green	320 LC TL1100 TL2201 TL4201
	320.094	L: 11.85mm W: 11.85mm H: 7.55mm	Black Grey	320 LC TL1100
	4J	L: 12.00mm W: 12.00mm H: 5.60mm	Black Grey White Red	320 LC TL1100

E-SWITCH®		DIMENSIONS	COLORS	SUPPORTED SWITCHES
	5J	L: 11.00mm W: 5.00mm H: 4.95mm	Black Grey White Red Blue	320 LC TL1100
	6J	L: 8.00mm W: 8.00mm H: 5.00mm	Black Grey White Red	320 LC TL1100
	700C1	L: 7.70mm W: 7.70mm H: 7.60mm	Black Grey White Red Green	700
	700C2	L: 9.50mm W: 9.50mm H: 6.54mm	Black Grey White Red Green	700
	700C3	L: 11.7mm W: 11.7mm	Black Grey White Red Green	700
	800AC1	L: 5.00mm W: 5.00mm H: 4.03mm	Black Red White Green	800A 800B
	800AC2	L: 7.35mm W: 7.35mm H: 3.5mm	Black Red White Green	800A 800B
	800C1	L: 5.0mm W: 5.0mm H: 4.03mm	Black White Red Green	800 800B
	800C2	L: 7.45mm W: 7.45mm H: 3.50mm	Black White Red Green	800
	800C3	L: W: H:	Black	800

Specifications subject to change without notice

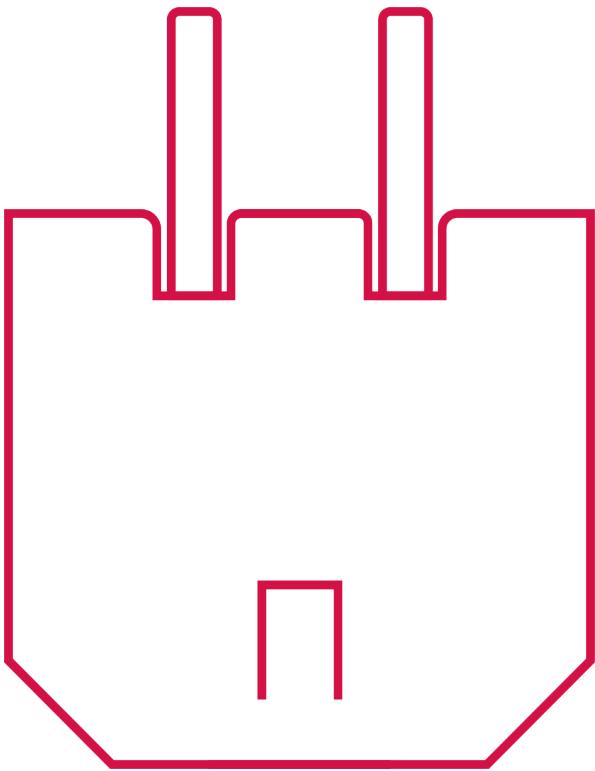
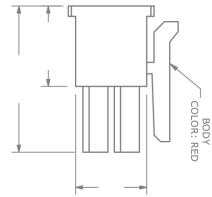
CAPS | PART 2

E-SWITCH®		DIMENSIONS	COLORS	SUPPORTED SWITCHES
	800UR1	L: 4mm W: 4mm H:	Black Red White	800U
	8J	L: 10.40mm W: 6.05mm H: 5.66mm	Black	320 LC TL1100
	R1	L: 8.80mm W: 8.80mm H: 10.50mm	Black	PB400
	TA12	L: W: 5.70mm H: 11.10mm	Black Grey White Red	LC
	TAC	L: 9.80mm W: 5.50mm H: 11.20mm	Black Grey White Red	LC
	TAD	L: 12.29mm W: 7.18mm H: 10.41mm	Black Grey White Red	LC
	TAG	L: 8.80mm W: 8.80mm H: 10.50mm	Black Grey White Red	LC
	TAM	L: 7.20mm W: 7.20mm H: 12.50mm	Black Grey White	TL1100C

E-SWITCH®		DIMENSIONS	COLORS	SUPPORTED SWITCHES
	TL3240R1	L: 10.2mm W: 10.2mm H: 3.5mm	Black Blue Green Ivory Red Yellow	TL3240
	TL3240S1	L: 10.2mm W: 10.2mm H: 3.5mm	Black Blue Green Ivory Red Yellow	TL3240
	TL3265	S - 5mm Diameter T - 4.7mm Diameter	Clear	TL3265

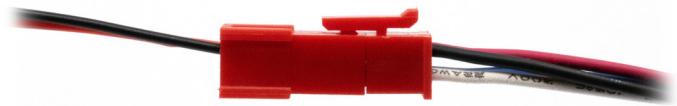
Specifications subject to change without notice

BIG RED CONNECTORS



Connectors are designed to link various components within a circuit by establishing physical connections between wires, cables or devices and to facilitate the flow of signals or power.

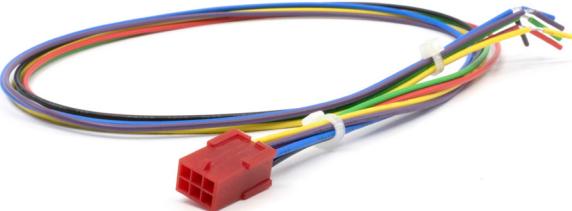
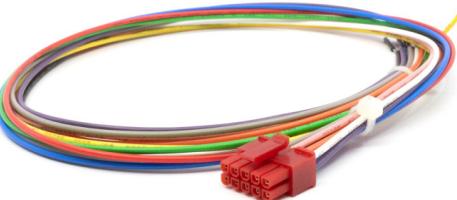
E-Switch's "Big Red" ECM Series helps support flexible routing and worry-free reliability while providing adaptable performance across a variety of industry applications.



BIG RED CONNECTORS

 E-SWITCH®	CONNECTOR TYPE	FREE HANGING SPACING	POLES	SYSTEM	COMPATIBLE WITH	
	ECM3022	Hanging Plug Housing	3mm	2, 4, 6, 10	Wire-to-wire receptacle-to-plug	ECM3025
	ECM3025	Free Hanging Receptacle Housing	3mm	2, 4, 6, 10	Wire-to-wire receptacle-to-plug	ECM3022 ECM3026
	ECM3026	PCB Header	3mm	2, 4, 6, 10	Wire-to-wire receptacle-to-plug	ECM3025

WIRE LEADS

CONNECTOR SERIES	WIRE LEADS (500MM)
ECM3022	
ECM3025	

Specifications subject to change without notice

NOTES



ENERGIZING INNOVATION

OVERVIEW

E-Switch, headquartered in Minneapolis, Minnesota, is a leading provider of high-performance electromechanical switch solutions serving the telecom, technology, medical, electronics, instrumentation, industrial, audio/visual, appliance, and consumer markets. Since 1979, the company has built a reputation for engineering excellence, product reliability, and customer-focused innovation. With international offices in Singapore, Hong Kong, Germany and Italy, E-Switch supports a global customer base across North and South America, Europe, Asia and Australia.

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