

# MICRO SWITCH TOGGLE SWITCH COMPARISON

Hermetic and environmentally sealed toggle switches offer enhanced reliability with MICRO SWITCH technology. They can be used in a variety of applications where a panel-mount switch with an environment-proof rating is needed, including industrial equipment, military and commercial aviation, agriculture, process control and medical.



SERIES	NT	TW	TL	AT	ET
Typical applications	<ul style="list-style-type: none"><li>Aerial platform lifts</li><li>Platform lifts for trucks</li><li>Industrial equipment</li><li>Railroad locomotives and maintenance equipment</li><li>Construction equipment</li><li>Agricultural machinery</li><li>Syringes (end of travel)</li></ul>	<ul style="list-style-type: none"><li>Military and commercial aircraft and helicopters</li><li>Aviation ground support equipment</li><li>Military land vehicles (track and wheeled vehicles)</li><li>Industrial machinery and construction equipment</li><li>Process control</li></ul>	<ul style="list-style-type: none"><li>Military and commercial aircraft: fixed wing aircraft and helicopter flight decks</li><li>Aviation ground support equipment: pumps, lights, and lift platforms</li><li>Military land vehicles (track and wheeled vehicles): lights, pumps, arming equipment, and lifts/ramps, etc.</li><li>Construction equipment: road milling, road pavers, trenchers, and stump cutters</li></ul>	<ul style="list-style-type: none"><li>Aircraft (commercial and military)</li><li>Military ground vehicles</li><li>Flight controls</li><li>Vehicle panel controls</li></ul>	<ul style="list-style-type: none"><li>Flight decks for commercial and military aircraft and helicopters</li></ul>
Type	commercial-grade toggle	miniature stainless steel toggle	military-grade toggle	stainless steel toggle	magnetically held toggle
Sealing	IP67/68; NEMA 3, 3R, 4 and 13	qualified to MIL-DTL-83781	qualified to MIL-DTL-3950	MIL-PRF-8805/26/98	most listings qualified to MIL-S-5594
Operating temp.	-40°C to 71°C [-40°F to 160°F]	-65°C to 71°C [-85°F to 160°F]	-65°C to 71°C [-85°F to 160°F]	various	-65°C to 71°C [-85°F to 160°F]
Actuator/lever	standard, locking, special design, tab	standard, locking, special design, tab	standard, special design, tab, paddle, none	standard, locking, tab, special design	standard, pull/push-to-unlock, tab
Action	2- or 3-position, momentary & maintained	2- or 3-position, momentary & maintained	2- or 3-position, momentary & maintained	2-position, momentary & maintained	2- or 3-position, momentary & maintained
Mounting	bushing 15/32 in	bushing 15/32 in or 1/4 in	bushing 15/32 in	15/32 in bushing, 1/4 in bushing, 3-hole, above panel	bushing 15/32 in
Termination	solder, screw, quick connect	IWTS, solder, screw, quick connect, H58, T2	IWTS, solder, screw, quick connect, leadwire	solder, solder T2, screw, quick connect, leadwire, H58	screw, leadwire, turret
Circuitry	SPST, SPDT, DPST, DPDT, 4PST, 4PDT	SPST, SPDT, DPST, DPDT	SPST, SPDT, DPST, DPDT, 3PST, 3PDT, 4PST, 4PDT	SPDT, DPDT, DPNO, 3PDT, 4PDT, 6PDT, 8PDT, 10PDT	SPDT, DPDT, 4PDT
Contacts	silver alloy, gold-plated	fine silver, gold-plated	silver alloy, gold-plated	silver, gold, bifurcated gold	fine silver
Amp rating	up to 20 A (resistive)	0.1 A to 5.0 A @ 0.5 Vdc to 28 Vdc; 0.1 A to 5.0 A @ 0.5 Vac to 115 Vac	up to 20 A (resistive)	0.01 A to 5 A (resistive)	7 A max. (resistive)
Measurements	58,4 mm H × 33,5 mm W × 22,6 mm D [2.3 in H × 1.32 in W × 0.89 in D]	49,78 mm H × 14,61 mm W × 14,61 mm D [1.96 in H × 0.575 in W × 0.575 in D]	58,4 mm H × 33,5 mm W × 22,6 mm D [2.3 in H × 1.32 in W × 0.89 in D]	various	51,56 mm H × 25,4 mm W × 25,4 mm D [2.03 in H × 1.0 in W × 1.0 in D]
Approvals	UL, CSA, CE, UKCA	UL, CSA, qualified to MIL-DTL-83781	UL, CSA, CE, UKCA, qualified to MIL-DTL-3950	qualified to MIL-PRF-8805/26/98	qualified to MIL-S-5594
Features	completely sealed switching chamber; enhanced tactile feedback	saves space and weight; sealed bushing versions	environment-proof sealing; qualified to MIL-DTL-3950	choice of sealed bushing; short behind panel depth	holding coil replaces mechanical holding mechanisms to maintain toggle in operate

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