

MICRO SWITCH™ Pushbutton Switches

Lit and Unlit Pushbuttons

Lighted or unlighted, pushbuttons are designed to enhance manual operation with a flexible and attractive interface. Snap-in surface products are easy to apply, operate, and maintain. Potential applications include control boards and panels found in industrial machinery, instrumentation, flight decks, and test equipment.



| Series | PB |
|-----------------|-------------------------------------------------------------------------|
| Panel area | depends on type and number of snap-action switches |
| Display | 8,1 mm [0.32 in] and other button sizes |
| Colored buttons | available |
| Mounting | threaded bushing |
| Termination | solder, H58, quick connect |
| Sealing | panel-seal version, hermetically sealed switch units |
| Electrical | 2 A to 5 A, 125/250 Vac |
| Approvals | UL, CSA, some meet MIL-S-8805 and MIL-STD-1080D |
| Features | up to four poles; compact or miniature sizes; sealed versions available |



| Series | AML | MML |
|--------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Panel area | 20,5 mm [0.80 in] square; 20,5 mm x 30,5 mm [0.80 in x 1.20 in] rectangular | 15 mm x 9,9 mm [0.59 in x 0.39 in] rectangular; 17,8 mm x 12,7 mm [0.70 in x 0.50 in] rectangular; 9,9 mm [0.39 in] square |
| Display | 15,0 mm [0.59 in] square; 15 mm x 25 mm [0.59 in x 0.99 in] buttons | 13 mm x 6,6 mm [0.51 in x 0.26 in] rectangular; 6,8 mm [0.27 in] square |
| Illumination | incandescent T-1-3/4 lamps – 6 V, 14 V, 28 V; LEDs – 2 V, 4 V, 5 V, 10 V, 15 V; neon lamps – 125 V, 250 V | T-1 – 5 V, 28 V; incandescent T-1-3/4 LEDs – 2 V, 2.5 V, 3 V |
| Behind panel | 43,1 mm [1.7 in] | 17,0 mm [0.67 in] |
| Mounting | snap-in individual, strip, matrix, sub-panel, pcb | snap-in individual, strip, sub-panel, pcb, bezel |
| Termination | solder, quick connect, pc board, push-on | solder, quick connect, printed wiring board |
| Sealing | optional panel seal | – |
| Electrical | solid state: 5 Vdc, 6 Vdc to 16 Vdc, 4.5 Vdc to 24 Vdc; electronic control: up to 3 A, 125 Vac | silver contacts: up to 1 A, 125 Vac; 6 A @ 125 Vac, 250 Vac; 2 A @ 30 Vdc; 1 A @ 125 Vdc; 1/10 hp @ 125 Vac; gold contacts: up to 0.25 A, 30 Vdc; UL rating 0.10 A |
| Approvals | UL, CSA, CDE, CE (selected products) | UL, CSA |
| Features | silver or gold contacts; full guard bezel option; lamp circuit independent of switch circuit | silver or gold contacts; pwb or panel-mount switches; multi-unit strip mounting available |

MICRO SWITCH™ Toggle & Rocker Switches

Sealed and Standard Toggles and Rockers



Hermetic and environmentally sealed toggle switches offer enhanced reliability with MICRO SWITCH™ technology. 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 | AT | TS |
|------------------------|--------------------------------------------------------|------------------------------------------|
| Type | stainless steel toggle | stainless steel, phenolic toggle |
| Sealing | MIL-S-8805/26/98 | – |
| Operating temp. | various | -54 °C to 71 °C [-65 °F to 160 °F] |
| Actuator/lever | standard, locking, tab, special design | standard |
| Action | 2-position, momentary & maintained | 2- or 3-position, momentary & maintained |
| Mounting | 15/32 in bushing, 1/4 in bushing, 3-hole, above panel | 15/32 in bushing |
| Termination | solder, solder T2, screw, quick connect, leadwire, H58 | solder, screw, quick connect |
| Circuitry | SPDT, DPDT, DPNO, 3PDT, 4PDT, 6PDT, 7PDT, 8PDT, 10PDT | SPST, SPDT, DPST, DPDT |
| Contacts | silver, gold | silver cadmium oxide |
| Amp rating | 0.01 A to 5 A (resistive) | up to 15 A |
| Measurements | various | various |
| Approvals | qualified to MIL-S-8805/26/98 | UL, CSA, CE |
| Features | choice of sealed bushing; short behind panel depth | lever-to-bushing seal |



| Series | AML |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Housing type | non-lighted, rectangle; 1 lamp circuit, rectangle; 2 lamp circuits, rectangle |
| Circuitry | SPST, SPDT, DPST, DPST, 4PDT |
| Action | 2 position, 3 position |
| Mounting | snap-in panel |
| Termination | solder, quick connect, printed circuit, push-on |
| Ampere/voltage range | 0.4 A to 2 A @ 0.5 Vdc to 30 Vdc; 0.4 A to 3 A @ 0.5 Vac to 125 Vac; 0.4 A to 2 A @ 0.5 Vac to 250 Vac |
| Light (if applicable) | no lamp installed; incandescent 6 V, 14 V, 28 V; neon |
| LED/neon color | red, yellow, green |
| Measurements | various |
| Approvals | – |
| Features | silver and gold contacts; available with or without diode protection for LEDs; lamp circuit independent of switch circuit |



| TW | ET | NT | TL |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| miniature stainless steel toggle | magnetically held toggle | industrial-grade toggle | military-grade toggle |
| qualified to MIL-S-83781 | most listings qualified to MIL-S-5594 | IP67/68; NEMA 3, 3R, 4 and 13 | qualified to MIL-S-3950 |
| -65 °C to 71 °C [-85 °F to 160 °F] | -65 °C to 71 °C [-85 °F to 160 °F] | -40 °C to 71 °C [-40 °F to 160 °F] | -65 °C to 71 °C [-85 °F to 160 °F] |
| standard, locking, special design, tab | standard, pull/push-to-unlock, tab | standard, locking, special design, tab | standard, special design, tab, paddle, none |
| 2- or 3-position, momentary & maintained | 2- or 3-position, momentary & maintained | 2- or 3-position, momentary & maintained | 2- or 3-position, momentary & maintained |
| bushing 15/32 in or 1/4 in | bushing 15/32 in | bushing 15/32 in | bushing 15/32 in |
| IWTS, solder, screw, quick connect, H58, T2 | screw, leadwire, turret | solder, screw, quick connect | IWTS, solder, screw, quick connect, leadwire |
| SPST, SPDT, DPST, DPDT | SPDT, DPDT, 4PDT | SPST, SPDT, DPST, DPDT, 4PST, 4PDT | SPST, SPDT, DPST, DPDT 3PST, 3PDT, 4PST, 4PDT |
| silver alloy, gold-plated | silver alloy, gold-plated | silver alloy | silver alloy, gold-plated |
| 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 | 7 A max. (resistive) | up to 20 A (resistive) | up to 20 A (resistive) |
| 49,78 mm H x 14,61 mm W x 14,61 mm D [1.96 in H x 0.575 in W x 0.575 in D] | 51,56 mm H x 25,4 mm W x 25,4 mm D [2.03 in H x 1.0 in W x 1.0 in D] | 26,7 mm H x 33,5 mm W x 22,6 mm D [1.05 in H x 1.32 in W x 0.89 in D] | 26,7 mm H x 33,5 mm W x 22,6 mm D [1.05 in H x 1.32 in W x 0.89 in D] |
| UL, qualified to MIL-S-83781 | qualified to MIL-S-5594 | UL, CSA, CE | UL, CSA, CE, qualified to MIL-S-3950 |
| saves space and weight; sealed bushing versions | holding coil replaces mechanical holding mechanisms to maintain toggle in operate | completely sealed switching chamber; enhanced tactile feedback | environment-proof sealing; qualified to MIL-DTL-3950 |



| TP |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| non-lighted, rectangle |
| SPST, SPDT, DPDT, 4PDT |
| 2 position, 3 position |
| flush mount; above panel mount |
| screw |
| silver, gold |
| - |
| - |
| various |
| UL recognized, CSA certified, CE approved |
| 2- or 3-position operating action; various button colors; dust and splash-proof sealed; silver or gold contacts available; can be provided with or without buttons |