

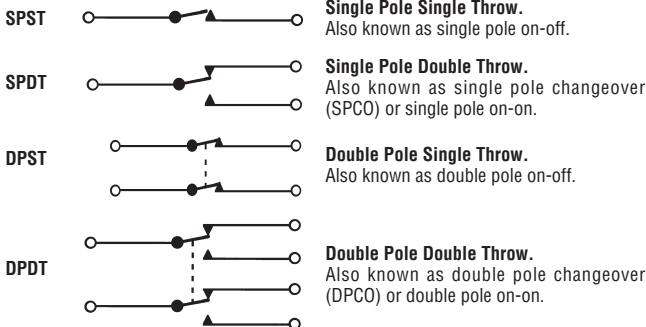
Switch Selection

Ratings

All voltage, current and power ratings quoted are for switching resistive loads unless otherwise stated or bracketed.

ie. 16(4)A @ 250V ac = 16A resistive, 4A inductive at 250V ac.

Configurations



3P, 4P NO, NC Multi-pole switches, 3 pole, 4 pole etc.
'Normally Open' contacts are operated to 'make' (turn on),
'Normally Closed' contacts are operated to 'break' (turn off).

Characteristics

Momentary Action The state of the switch will change only whilst the operating force is applied. When released the switch will return to its original state.

Latching Action The state of the switch changes when an operating force is applied. It will change back to its original state when an additional force is applied. Also known as maintained action.

Examples of Alternative Descriptions:

SPDT	Single pole on-on	(2 position)
SPDT - centre off	Single pole on-off-on	(3 position)
SPDT - biased	Single pole on-mom	(2 position)
SPDT - centre off, two way bias	Single pole mom-off-mom	(3 position)
SPDT - centre off, one way bias	Single pole on-off-mom	(3 position)

SW174

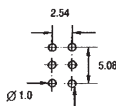
Subminiature Toggle Switches

Sealed PCB Mounting



SPDT Body H = 8, W = 9.5, D = 5
DPDT

- Gold plated contacts allow low level switching
- Case material meets **UL94V-0**



PCB drilling plan

Minimum load	1µA @ 20mV ac	Proof voltage	500V for 1 min.
Contact resistance	<50mΩ	Mechanical life	60000 ops.
Insulation resistance	10000mΩ @ 250V dc	Operating temperature	-20°C to +80°C

Mftrs. List No. ATE1D = 219-435, ATE2D = 219-447

SW195

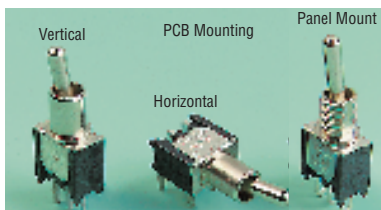
	Order Code	1+	25+	100+	250+	1000+
SPDT	219-435					
DPDT	219-447					

PCB Mount, Panel Mount, Sealed - TT Series

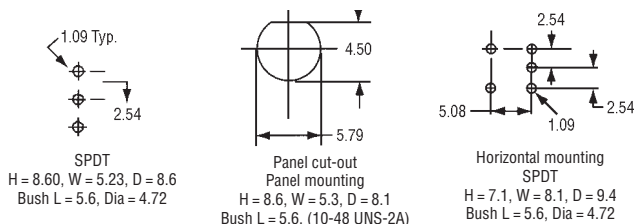
0.4VA @ 20V dc (gold), 3A @ 125V ac (silver)

ALCOSWITCH

Thomas & Betts



PCB drilling plans



- Gold contacts allow low level switching
 - Threaded bush types suitable for panel mounting
 - Vertical and Horizontal mounting
- Contact rating: 0.4VA @ 20V dc/ac gold contacts
3A @ 125V ac/28V dc silver contacts
- Contact material: Gold over nickel or Silver plate
- Contact resistance: ≤20mΩ
- Insulation resistance: 1000MΩ @ 500V dc
- Electrical life: 2 position (gold) 80,000 ops 3 position (gold) 60,000 ops
2 position (silver) 20,000 ops

Mftrs. List No.
TT11DGPC-1FN = 958-839, TT11EGPC-1FN = 958-840, TT13D-2TFN = 958-906,
TT11DGRA-1FN = 958-864, TT13A-2TFN = 958-890,

SW334

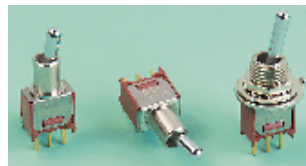
Order Code	1+	10+	25+	50+	100+	250+
PCB Mount - Vertical (Gold Contacts)						
SPDT - on-on						958-839
SPDT - on-off-on						958-840
PCB Mount - Horizontal (Gold Contacts)						
SPDT - on-on						958-864
Panel Mount - Vertical, (Silver Contacts)						
SPDT - on-off						958-890
SPDT - on-on						958-906

PCB Mounting

0.4VA @ 20V ac/dc

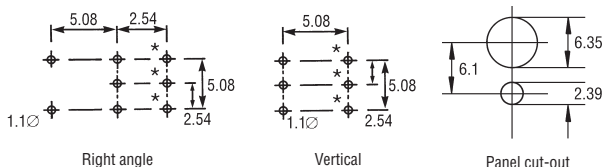


Vertical
Body H = 8.64
W = 5 (SPDT), 9.1 (DPDT)
D = 8.13



Vertical Threaded Bush
Body H = 8.64
W = 5 (SPDT), 9.1 (DPDT)
D = 8.13

Horizontal
Body H = 5 (SPDT), 9.1 (DPDT)
W = 8.1, D = 9.1 (SPDT), 11.6 (DPDT)



*This row needed only for double pole switches

- Gold plated contacts allow low level switching
- Epoxy sealed terminations
- Threaded bush types for panel mounting

Electrical life	60,000 2 position, 30,000 3 position
Contact resistance	≤20mΩ @ 4V dc
Operating temperature	-30°C to +85°C

Mftrs. List No.	T101MH9CBE = 986-010, T201MH9CBE = 986-045, T101MH9ABE = 986-070, T201MH9ABE = 986-100, T103STDCBE = 986-136,	T103MH9CBE = 986-021, T203MH9CBE = 986-057, T103MH9ABE = 986-082, T101STDCBE = 986-124, T108STDCBE = 986-148,	T108MH9CBE = 986-033, T203STDCBE = 986-161, T201STDCBE = 986-150,
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SW335

Vertical Mounting	Order Code	1+	25+	100+	250+	1000+
SPDT - on-on	986-010					
SPDT - on-off-on	986-021					
SPDT - on-mom	986-033					
DPDT - on-on	986-045					
DPDT - on-off-on	986-057					
Horizontal Mounting						
SPDT - on-on	986-070					
SPDT - on-off-on	986-082					
DPDT - on-on	986-100					
Vertical Mounting - Threaded Bush						
SPDT - on-on	986-124					
SPDT - on-off-on	986-136					
SPDT - on-mom	986-148					
DPDT - on-on	986-150					
DPDT - on-off-on	986-161					