

M83731

Specifications

Characteristic	Parameter
Description	miniature military-grade toggle switch
Sealing	qualified to MIL-DTL-83731
Operating temperature	-65 °C to 71 °C [-85 °F to 160 °F]
Actuators	standard, locking, special design, paddle
Action	2- or 3- position; momentary and maintained
Mounting	bushing 15/32 in (0.47 in) Ø; 1/4 in (0.25 in) Ø
Circuitry	SPDT, DPDT, SPST, DPST
Terminations	Solder (T and T2), quick connect (H58)
Contacts	fine silver or gold-plated
Amp rating	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
Approvals	UL, qualified to MIL-DTL-83781
Measurement	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]

Electrical ratings (in amp)

Volts	Resistive	Inductive	Lamp
30 Vdc	5	2	1
115 Vac	5	2	1
UL code 117	5A @ 125 Vac		

## Order guide

### Two-Position with 15/32 in Bushing

No. of poles	Terminals	Circuits made with toggle at:		Sealed standard toggle	Pull-to-unlock toggle	
		Keyway position	Opposite keyway	Military number	Add suffix to standard toggle listing	Military number
1	solder	OFF	2-3 ON	MS27718-22-1	D, F, G	MS27720-22-1
	solder	2-1 ON	2-3 ON	MS27718-23-1	D, F, G	MS27720-23-1
	solder	2-1 ON*	2-3 ON	MS27718-26-1	F	MS27720-26-1
2	solder	OFF	2-3, 5-6 ON	MS27719-22-1	D, F, G	MS27721-22-1
	solder	2-1, 5-4 ON	2-3, 5-6 ON	MS27719-23-1	D, F, G	MS27721-23-1
	solder	2-1, 5-4 ON*	2-3, 5-6 ON	MS27719-26-1	F	MS27721-26-1

\* These positions are momentary. All others are maintained.

### Two-Position TW Series with 1/4 in Bushing

No. of poles	Terminals	Circuits made with toggle at:		Unsealed standard toggle
		Keyway position	Opposite keyway	Military number
1	solder	OFF	2-3 ON	MS27716-22-1
	solder	2-1 ON	2-3 ON	MS27716-23-1
	solder	2-1 ON*	2-3 ON	MS27716-26-1
2	solder	OFF	2-3, 5-6 ON	MS27717-22-1
	solder	2-1, 5-4 ON	2-3, 5-6 ON	MS27717-23-1
	solder	2-1, 5-4 ON*	2-3, 5-6 ON	MS27717-26-1

\* These positions are momentary. All others are maintained.

Three-Position TW Series with 15/32 in Bushing

No. of poles	Terminals	Circuits made with toggle at:			Sealed standard toggle	Pull-to-unlock toggle	
		Keyway position	Center keyway	Opposite keyway	Military number	Add suffix to standard toggle listing	Military number
1	solder	2-1 ON	OFF	2-3 ON	MS27718-21-1	ALL	MS27720-21-1
	solder	2-1 ON*	OFF	2-3 ON	MS27718-31-1	E, F, K, L, M, N	MS27720-31-1
	solder	2-1 ON*	OFF	2-3 ON*	MS27718-27-1	E, L, N	MS27720-27-1
2	solder	2-1, 5-4 ON	OFF	2-3, 5-6 ON	MS27719-21-1	ALL	MS27721-21-1
	solder	2-1, 5-4 ON*	OFF	2-3, 5-6 ON	MS27719-31-1	E, F, K, L, M, N	MS27721-31-1
	solder	2-1, 5-4 ON*	OFF	2-3, 5-6 ON*	MS27719-27-1	E, L, N	MS27721-27-1

\* These positions are momentary. All others are maintained.

Three-Position TW Series with 1/4 in Bushing

No. of poles	Circuits made with toggle at:			Unsealed standard toggle
	Keyway position	Center position	Opposite keyway	Military number
1	2-1 ON	OFF	2-3 ON	MS27716-21-1
	2-1 ON*	OFF	2-3 ON	MS27716-31-1
	2-1 ON*	OFF	2-3 ON*	MS27716-27-1
2	2-1, 5-4 ON	OFF	2-3, 5-6 ON	MS27717-21-1
	2-1, 5-4 ON*	OFF	2-3, 5-6 ON	MS27717-31-1
	2-1, 5-4 ON*	OFF	2-3, 5-6 ON*	MS27717-27-1

\* These positions are momentary. All others are maintained.