MINIATURE POSITIVE ACTION SWITCHES
Series - 8855, 8856, 8866-69

MIL-DTL-8834 Miniature Positive Action Switches
Toggle and Lever Lock/IWTS Terminals

FEATURES

- Sealed bushing
- Dry circuit (logic level loads) to power switching levels
- 1 and 2 pole circuitry
- Non-teasible mechanism for all but center "ON" circuit
- Small and large size bushings and Actuator
- Toggle and lever lock Actuator
- Wiping action contacts
- Positive make and break action
- Integrated Wire Termination System (IWTS)

SPECIFICATIONS

- Bushing seal or bonded seal per MIL-DTL-8834
- MS approved and QPL listed to MIL-DTL-8834
- Temperature Range: -67°F to +160°F (-55°C to +71°C)
- Life: 20,000 operations at rated load
  40,000 operations mechanical life
- Bushing thread sizes:
  Small Toggle: ¼" - 40 thread
  Large Toggle and Lever Lock: 15/32" - 32 thread
- Accepts SAE-AS39029/1-101 Pins (pins not included)

CURRENT RATINGS

No. of Poles	Catalog Number	Type of Operation	28VDC (Amperes per pole)		115VAC 60Hz and 400Hz (Amperes per pole)			
			Resistive Load	Inductive Load	Resistive Load		Inductive Load	
			28VDC	28VDC	60Hz	400Hz	60Hz	400Hz
1	8855 8866 8868	Maintained and Momentary	5	1	2	3	1	2
2	8856 8867 8869	Maintained and Momentary	5	1	2	3	1	2

Minimum Rating: 25 microamperes at 5 millivolts.

SELECTION TABLE

8868 Large Lever

8866 Small Lever

8869 Large Lever

8867 Small Lever

CIRCUIT WITH LEVER IN . . .			ONE POLE				TWO POLE					
Up Position	Center Position	Down Position (Keyway)	MS Part Number	Catalog Number Large Lever	MS Part Number	Catalog Number Small Lever	MS Part Number	Catalog Number Large Lever	MS Part Number	Catalog Number Small Lever	MS Part Number	Catalog② Number
ON	OFF	ON	MS21346-211	8868K51	MS24655-211W	8866K51	MS21347-211	8869K51	MS24656-211W	8867K51	MS21347-711	8869K51X
ON	NONE	OFF	-221	K57	-221W	K57	-221	K57	-221W	K57	-721	K57X
ON	NONE	ON	-231	K54	-231W	K54	-231	K54	-231W	K54	-731	K54X
ON	OFF	NONE	-241	K55	-241W	K55	-241	K55	-241W	K55	-741	K55X
*ON	OFF	ON*	MS21346-271	8868K52	-271W	8866K52	MS21347-271	8869K52	-271W	8867K52	MS21347-771	8869K52X
NONE	OFF	ON*	-281	K56	-281W	K56	-281	K56	-281W	K56	-781	K56X
ON	OFF	ON*	-311	K53	-311W	K53	-311	K53	-311W	K53	-811	K53X
NONE	ON	ON*	MS21346-321	K58①	-321W	K58①	MS21347-321	8869K58①	-321W	8867K58①	MS21347-821	8869K58X①
ON	ON	ON	-	-	-331W	-	-331	K59①	-331W	K59①	-831	K59X①
ON	ON	ON*	-	-	-351W	-	-351	K510①	-351W	K510①	-851	K510X①
*ON	ON	ON*	-	-	-341W	-	-341	K511①	-341W	K511①	-841	K511X①

*** Momentary contact.**

① Dielectric per MIL-DTL-8834 except limited to 1250 volts. Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips.

② Furnished with Bonded Seal feature. (Meets 15' head of water level requirement.)

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SELECTION TABLE

8855

8856

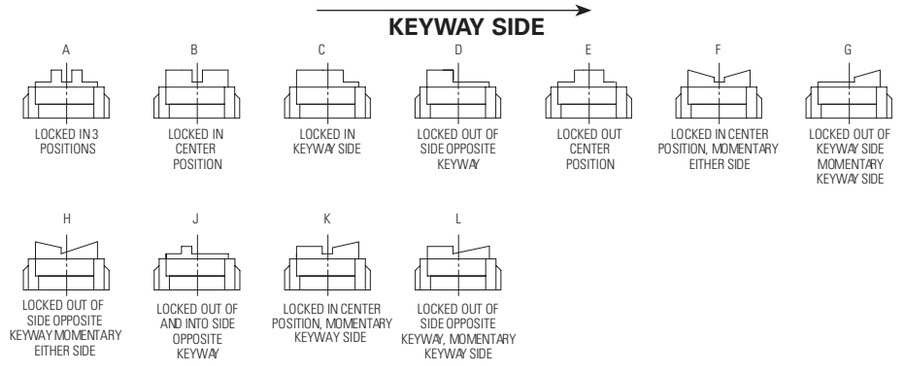
CIRCUIT WITH LEVER IN . . .				ONE POLE		TWO POLE	
Up Position	Center Position	Down Position (Keyway)	Lever Lock Bushing Style	MS Part Number	Catalog Number	MS Part Number	Catalog Number
ON→	← OFF→	← ON	A	MS21346-A211	8855K54	MS21347-A211	8856K54
ON	← OFF→	ON	B	-B211	K55	-B211	K55
ON	← OFF	NONE	B	-B241	K519	-B241	K519
ON	NONE	← OFF	C	-C221	K513	-C221	K513
ON	NONE	← ON	C	-C231	K57	-C231	K57
ON	← OFF	ON	D	MS21346-D211	8855K510	MS21347-D211	8856K510
ON→	NONE	← OFF	E	-E221	K514	-E221	K514
ON→	NONE	← ON	E	-E231	K58	-E231	K58
*ON	← OFF→	ON*	F	-F271	K515	-F271	K515
ON	OFF→	ON*	G	-G311	K516	-G311	K516
*ON	← OFF	ON*	H	MS21346-H271	8855K517	MS21347-H271	8856K517
ON→	← OFF	NONE	J	-J241	K59	-J241	K59
NONE	OFF→	ON*	K	-K281	K518	-K281	K518
ON	← OFF→	ON*	K	-K311	K520	-K311	K520
ON	← OFF	ON*	L	-L311	K512	-L311	L512

*** Momentary contact.**
→Indicates direction against which lever is locked.
See page A75 for special circuit diagrams.

OPTIONS/ACCESSORIES

- Special mounting hardware
- Special marking
- Mounting hardware furnished assembled
- Panel seal, Part Number 32-341 (15/32" - 32 bushing only)
- Special circuits
- Special bushing and lever finish
- Special locking cap style on lever lock switches
- EMI/RFI capability on two pole (15/32" - 32 bushing only)

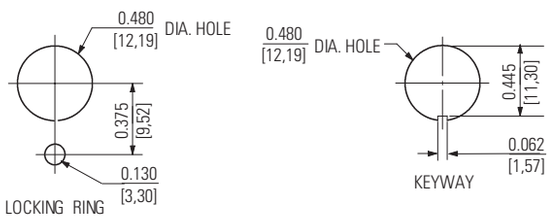
LEVER LOCK - BUSHING STYLES



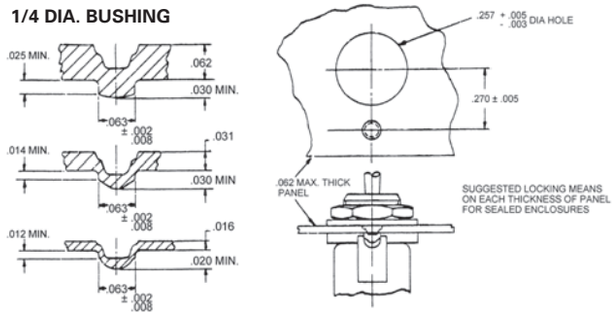
Figures A thru L do not represent details of construction. They schematically illustrate locking function.

PANEL CUTOUT DIMENSIONS

15/32 DIA. BUSHING



1/4 DIA. BUSHING



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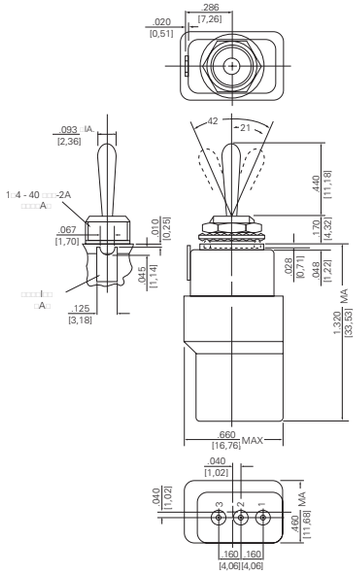
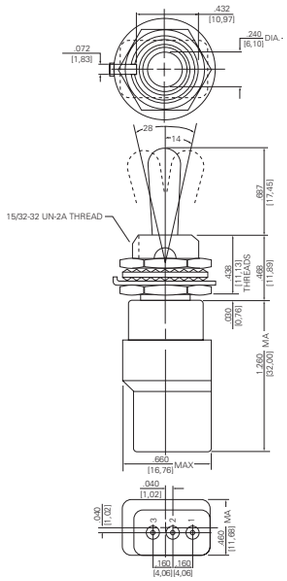
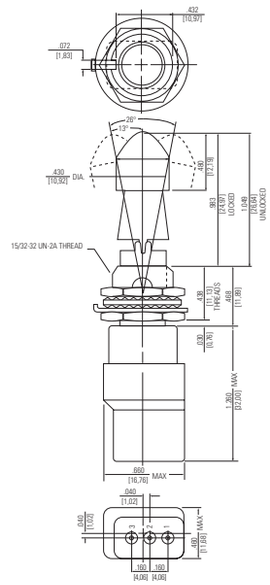
MOUNTING DIMENSIONS - ONE POLE / 8855, 8866, 8868



Small Toggle

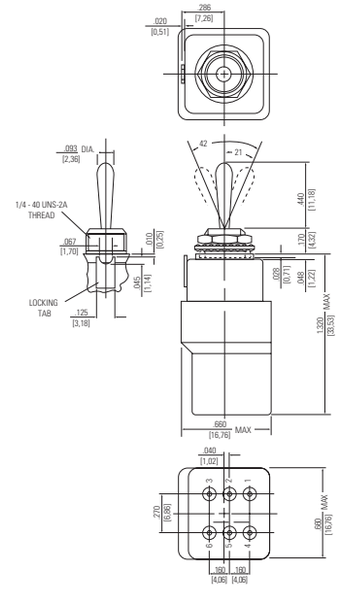


Large Toggle/ Terminal Identification

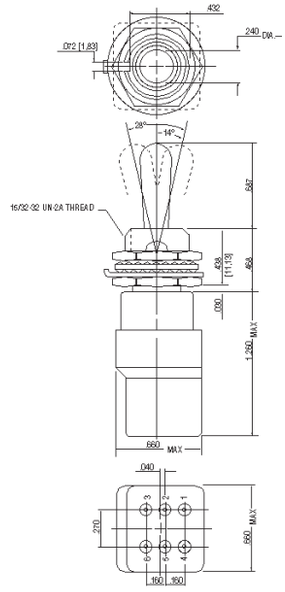


Lever Lock

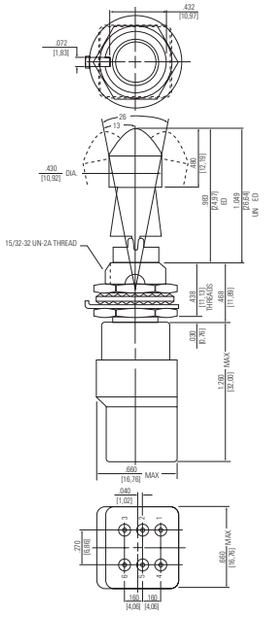
MOUNTING DIMENSIONS - TWO POLE / 8856, 8867, 8869



Small Toggle



Large Toggle/ Terminal Identification



Lever Lock

STANDARD
0.00 = inches
[0,0] = mm

Mounting dimensions for reference only.

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