

MINIATURE POSITIVE ACTION SWITCHES

Series - 8866-8869

MIL-S-8834 Miniature Positive Action Switches Solder Lug Terminals

FEATURES

- Sealed bushing
- Current rating versatility
- 1 and 2 pole circuitry
- Non-tearable mechanism for all but center "ON" circuits
- Dry circuit (logic level loads) to power switching levels
- Wiping action contacts
- Positive make and break action
- Small and large size bushings and Actuator
- Solder lug terminals
- Also available with locking Actuator, integrated wire termination and printed circuit board terminals.

SPECIFICATIONS

- Bushing seal or bonded seal per MIL-S-8834
- MS approved and QPL'd to MIL-S-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
- "O" ring panel seal on 1/4" - 40 type bushing size
- Solder lug terminals .050 [1,27] dia. hole

CURRENT RATINGS

No. of Poles	Catalog Number	Type of Operation	28 and 50VDC (Amperes per pole)		115VAC 60Hz and 400Hz (Amperes per pole)	
			Resistive Load	Inductive Load	Resistive Load	Inductive Load
			28VDC 50VDC	28VDC 50VDC	60Hz 400Hz	60Hz 400Hz
1	8866 and 8868	Maintained and Momentary	5	1	1 -	2 3
2	8867 and 8869	Maintained and Momentary	5	1	1 -	2 3

Minimum Rating: 25 microamperes at 5 millivolts.

SELECTION TABLE

CIRCUIT WITH LEVER IN ...

8866



Up Position	Center Position	Down Position (Keyway)	Military Part Number	Catalog Number ②
ONE POLE				
ON	OFF	ON	MS24655-211	8866K1
ON	NONE	OFF	-221	K7
ON	NONE	ON	-231	K4
ON	OFF	NONE	-241	K5
* ON	OFF	ON*	MS24655-271	8866K2
NONE	OFF	ON*	-281	K6
ON	OFF	ON*	-311	K3
NONE	ON	ON*	321	K8①

8867



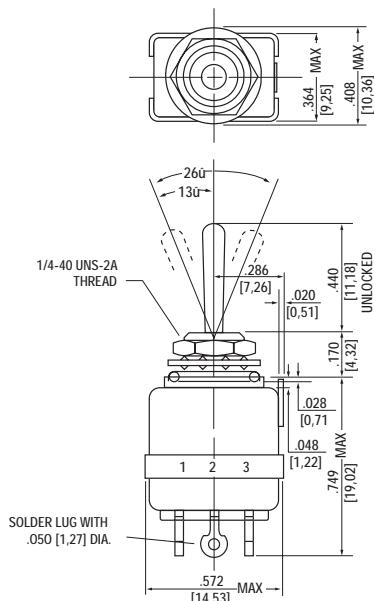
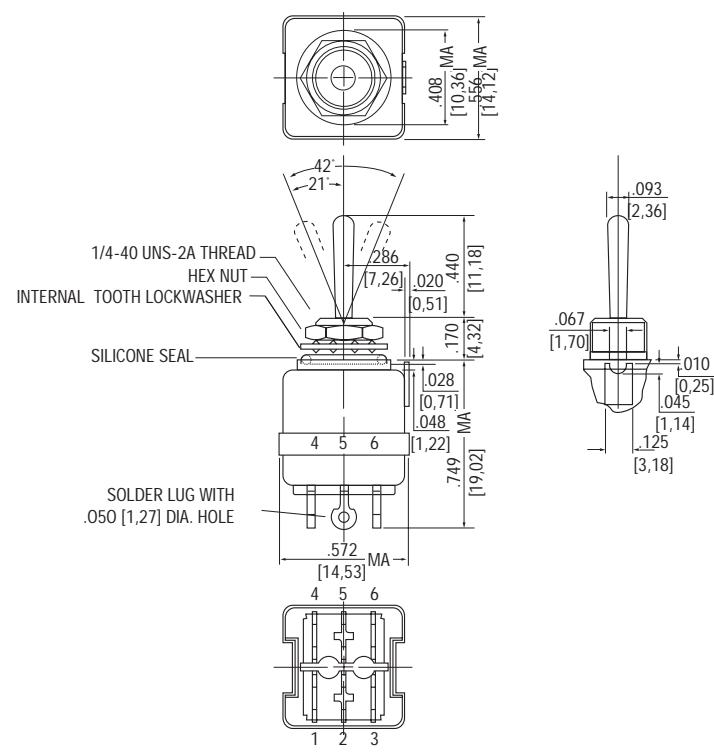
Up Position	Center Position	Down Position (Keyway)	Military Part Number	Catalog Number ②
TWO POLE				
ON	OFF	ON	MS24656-211	8867K1
ON	NONE	OFF	-221	K7
ON	NONE	ON	-231	K4
ON	OFF	NONE	-241	K5
* ON	OFF	ON*	MS24656-271	8867K2
NONE	OFF	ON*	-281	K6
ON	OFF	ON*	-311	K3
NONE	ON	ON*	MS24656-321	8867K8 ①
ON	ON	ON	-331	K9 ①
ON	ON	ON*	-351	K10①
* ON	ON	ON*	-341	K11①

* Momentary contact.

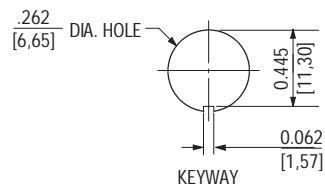
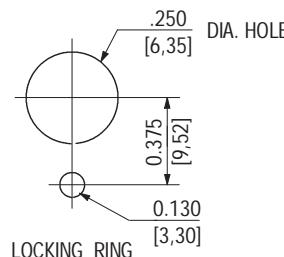
See page A75 for special circuit diagrams.

① Dielectric per MIL-S-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 Caution should be exercised during soldering and flux removal. See page A56 for details.

MOUNTING DIMENSIONS - ONE POLE / 8866**Terminal Identification****MOUNTING DIMENSIONS - TWO POLE / 8867****Terminal Identification**

Non-functional terminals not supplied.

PANEL CUTOUT DIMENSIONS**1/4 - 40 DIA. BUSHING****STANDARD**

0.00 = inches

[0,0] = mm

Mounting dimensions for reference only.

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Series - 8866-8869

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SELECTION TABLE

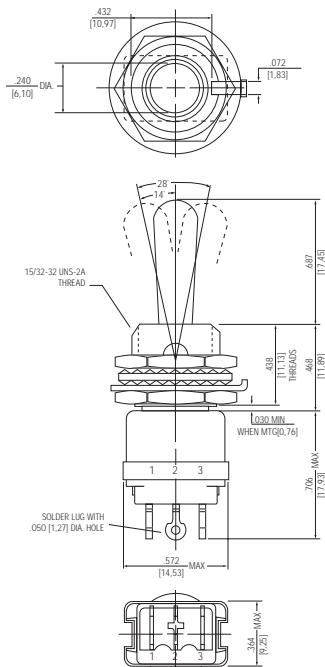
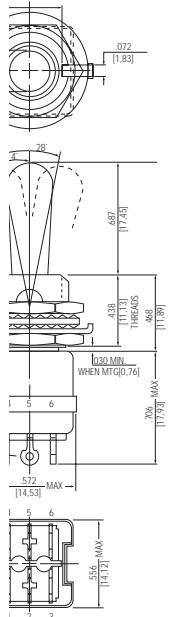
CIRCUIT WITH LEVER IN . . .						
	Up Position	Center Position	Down Position (Keyway)	MS Part Number	Catalog Number ②	MS Part Number ③
ONE POLE						
8868				MS90310-211	8868K1	Feature Not Available
	ON	OFF	ON	-221	K7	in Single Pole Switches
	ON	NONE	OFF	-231	K4	—
	ON	NONE	ON	-241	K5	—
	ON	OFF	NONE			
	* ON	OFF	ON*	MS90310-271	8868K2	—
	NONE	OFF	ON*	-281	K6	—
	ON	OFF	ON*	-311	K3	—
	NONE	ON	ON*	MS21351-321	K8①	—
TWO POLE						
8869				MS90311-211	8869K1	MS90311-711
	ON	OFF	ON	-221	K7	-721
	ON	NONE	OFF	-231	K4	-731
	ON	NONE	ON	-241	K5	-741
	ON	OFF	NONE			
	* ON	OFF	ON*	MS90311-271	8869K2	MS90311-771
	NONE	OFF	ON*	-281	K6	-781
	ON	OFF	ON*	-311	K3	-811
	NONE	ON	ON*	MS21353-321	8869K8 ①	MS21353-821
	ON	ON	ON	-331	K9 ①	-831
	ON	ON	ON*	-351	K10 ①	-851
	* ON	ON	ON*	-341	K11 ①	-841
						8869K8X①
						K9X①
						K10X①
						K11X①

*** Momentary contact.**

① Dielectric per MIL-S-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 Caution should be exercised during soldering and flux removal. See page A56 for details.

③ Furnished with Bonded Seal Feature. (Meets 15' water sealing level requirements.)

MOUNTING DIMENSIONS - ONE POLE / 8868**Terminal Identification****MOUNTING DIMENSIONS - TWO POLE / 8869****Terminal Identification****STANDARD**

0.00 = inches

[0,0] = mm

Mounting dimensions for reference only.

Non-functional terminals not supplied.

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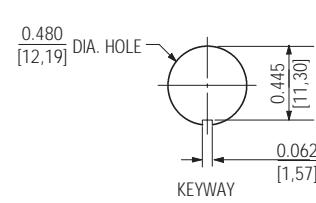
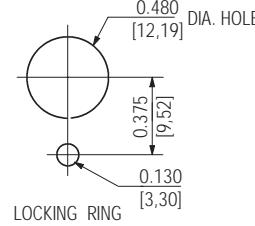
Solder Lug Terminals

OPTIONS/ACCESSORIES

- Special mounting hardware
- Special marking
- Mounting hardware furnished assembled
- Panel seal, Part Number 32-341
- Lever extensions and attachable tips
- Special circuits
- Special bushing and lever plating
- Mounting adapter nuts
- Custom wire harnesses
- EMI/RFI capability on two pole (large bushing)
- Gold plated contacts

PANEL CUTOUT DIMENSIONS

15/32 DIA. BUSHING



STANDARD

0.00 = inches

[0,0] = mm

Mounting dimensions for reference only.

See page A56 for soldering and cleaning recommendations.