

# MILITARY - ENVIRONMENTALLY SEALED SWITCHES

Series - 8500, 8501, 8502

MIL-DTL-3950 Toggle Switches

FEATURES		SPECIFICATIONS			CURRENT RATINGS					
<ul style="list-style-type: none"> <li>Environmentally sealed</li> <li>1, 2 and 4 pole circuitry</li> <li>2 &amp; 3 position with maintained and momentary action</li> <li>Molded-in terminal inserts and terminal numbers</li> </ul>	<ul style="list-style-type: none"> <li>Environmentally sealed per MIL-DTL-3950</li> <li>MS approved and QPL'd per MIL-DTL-3950</li> <li>Thermoset molding materials meet flame retardant requirements</li> <li>Bushing: 15/32" - 32 thread</li> <li>Temperature Range: -85°F to +160°F (-65°C to +71°C)</li> <li>Life: 20,000 operations at rated load 40,000 operations mechanical life</li> </ul>	No. of Poles	Catalog Number	Type of Operation	28VDC			115VAC 60 or 400Hz		
					Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
		1	8500	Maintained	5	20	15	3	15	10
				Momentary	4	15	10	2	15	7
		2	8501	Maintained	7	20	15	4	15	15
				Momentary	5	18	10	2	11	8
		4	8502	Maintained	5	20	12	4	15	15
				Momentary	4	18	10	2	11	8

## STANDARD LEVER SELECTION TABLE

Minimum Rating: "Intermediate Current" per MIL-DTL-3950.



8500



8501



8502

CIRCUIT WITH LEVER IN . . .			ONE POLE		TWO POLE		FOUR POLE	
Up Position	Center Position	Down Position (Keyway)	MS Part Number	Catalog Number	MS Part Number	Catalog Number	MS Part Number	Catalog Number
ON	OFF	ON	MS24523-21	8500K1	MS24524-21	8501K1	MS24525-21	8502K1
ON	NONE	OFF	-22	K9	-22	K9	-22	K9
ON	NONE	ON	-23	K4	-23	K4	-23	K4
ON	OFF	NONE	-24	K6	-24	K6	-24	K6
ON	NONE	ON*	MS24523-26	8500K5	MS24524-26	8501K5	MS24525-26	8502K5
* ON	OFF	ON*	-27	K2	-27	K2	-27	K2
NONE	OFF	ON*	-28	K7	-28	K7	-28	K7
ON	NONE	OFF*	-29	K10	-29	K10	-29	K10
OFF	NONE	ON*	-30	K11	-30	K11	-30	K11
ON	OFF	ON*	MS24523-31	8500K3	MS24524-31	8501K3	MS24525-31	8502K3
* ON	ON	NONE	-32	K12	-32	K12	-32	K12
ON	ON	NONE	-33	K13	-33	K13	-33	K13
ON	ON	ON	—	—	MS27407-1	8501K14	MS27406-1	8502K15
ON	ON	ON*	—	—	-2	K15	-2	K16
* ON	ON	ON*	—	—	-3	K16	-3	K17
ON	ON	ON	—	—	-4	K17	—	—
ON	ON	ON*	—	—	-5	K18	—	—
* ON	ON	ON*	—	—	-6	K19	—	—

\* Momentary contact.

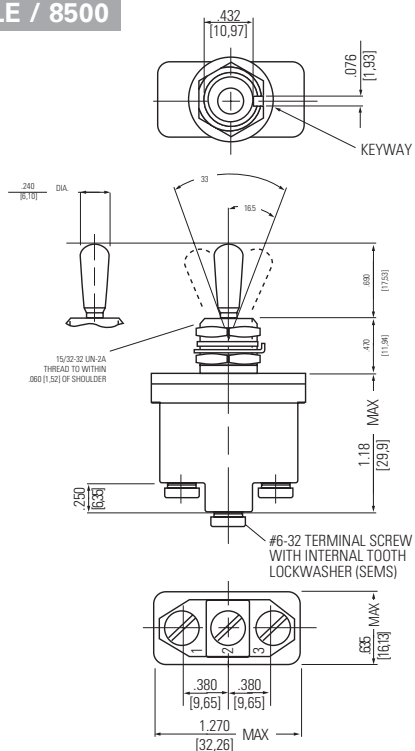
See page A71 for circuit diagrams.

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## MIL-DTL-3950 Toggle Switches

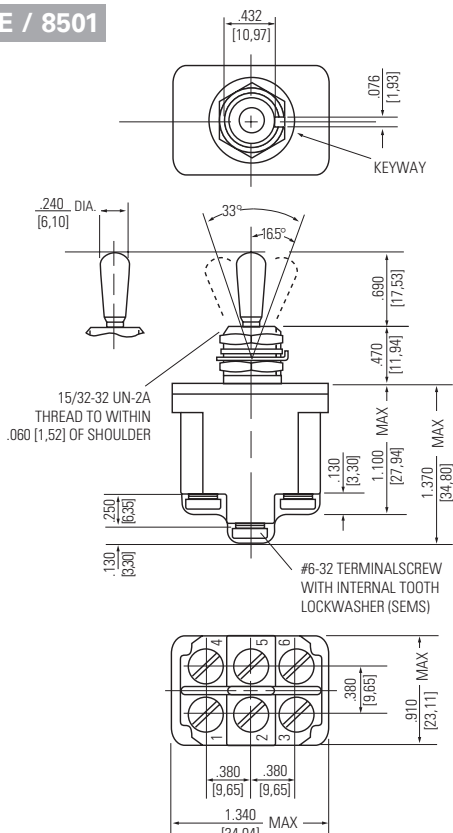
Series - 8500, 8501, 8502

### MOUNTING DIMENSIONS - ONE POLE / 8500



#### Terminal Identification

### MOUNTING DIMENSIONS - TWO POLE / 8501



#### Terminal Identification

#### STANDARD

0.00 = inches

[0,0] = mm

Mounting dimensions for reference only.

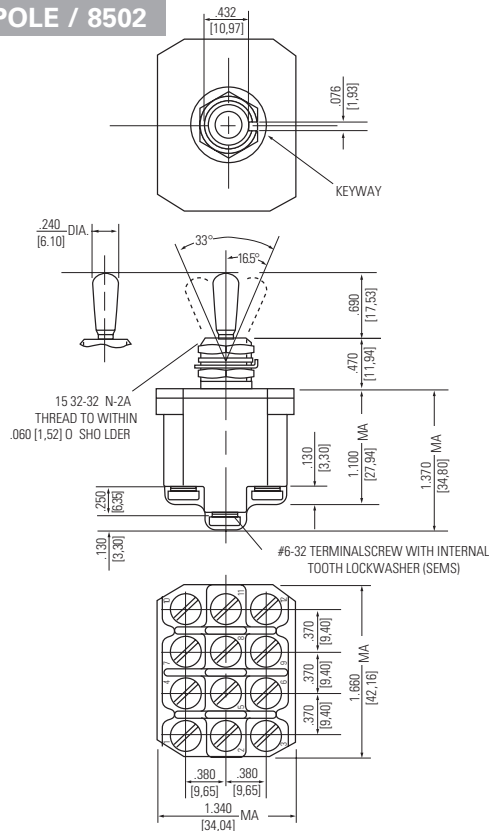
Non-functional terminals not supplied.

# MILITARY - ENVIRONMENTALLY SEALED SWITCHES

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# MIL-DTL-3950 Toggle Switches

### MOUNTING DIMENSIONS - FOUR POLE / 8502



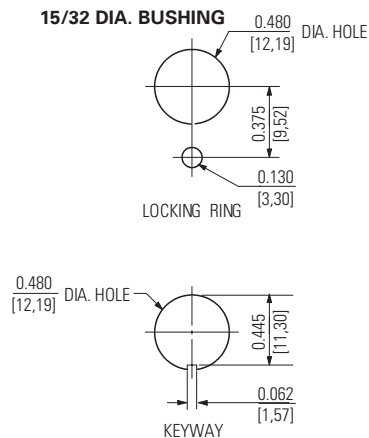
### Terminal Identification

Non-functional terminals not supplied.

### OPTIONS/ACCESSORIES

- Special mounting hardware
- Mounting hardware furnished assembled
- Terminal screws furnished assembled
- Special circuits
- Panel seal, part number 32-341 (See Accessories and Custom Components section)
- Special "3 Cateye" luminous lever attachment
- Lever extensions and attachable tips (See Accessories and Custom Components section)
- Custom wiring harnesses

### PANEL CUTOUT



**STANDARD**  
0.00 = inches  
[0,0] = mm

Mounting dimensions for reference only.