# MILITARY - ENVIRONMENTALLY SEALED SWITCHES Series - 8500, 8501, 8502

## MIL-DTL-3950 Toggle Switches

FEATURES	SPECIFICATIONS	ATIONS (					CURRENT RATINGS					
<ul><li>Environmentally sealed</li><li>1, 2 and 4 pole circuitry</li></ul>	<ul> <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 Catalog Type of Poles Number Operation			28VDC			115 VAC 60 or 400Hz				
2 & 3 position with maintained and momentary action					Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load		
<ul> <li>Molded-in terminal inserts and terminal numbers</li> </ul>		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









CIRCUIT WITH LEVER IN			ONE POLE		TWO	POLE	FOUR POLE		
Up Position	Center Position	Down Position (Keyway)							
7	1	4	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	_	_	

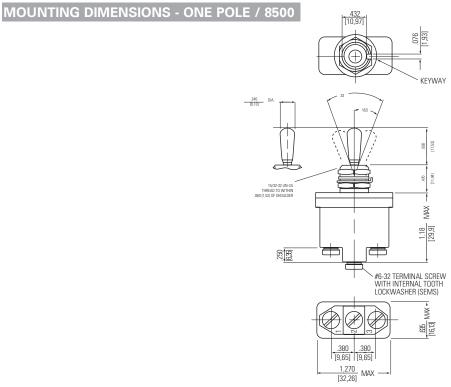
<sup>\*</sup> Momentary contact.

See page A71 for circuit diagrams.

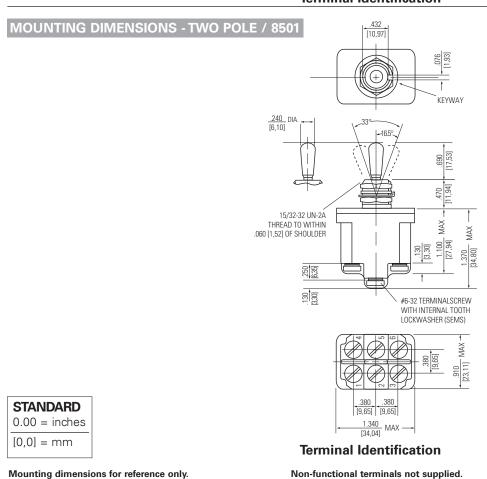


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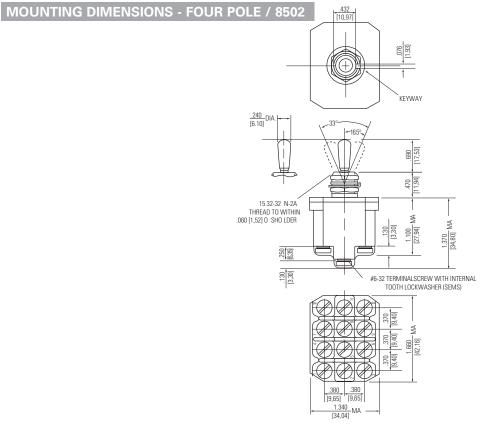
## **Terminal Identification**



SAFRAN

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## MIL-DTL-3950 Toggle Switches



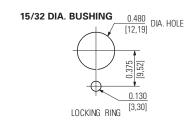
## **Terminal Identification**

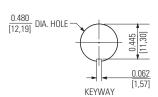
Non-functional terminals not supplied.

### **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.

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