MILITARY - ENVIRONMENTALLY SEALED SWITCHES MIL-DTL-3950 Lever Lock Switches

Series - 8503, 8504, 8505

FEATURES	SPECIFICATIONS	CURRENT RATINGS								
Environmentally sealed			Catalog Number	Type of Operation	28VDC			115 VAC 60 or 400Hz		
 1, 2 and 4 pole circuitry 2 & 3 position with maintained and momentary action Locking actuator for safety Molded-in terminal inserts and terminal numbers 	flame retardant requirements • Bushing: 15/32" - 32 thread • Temperature Range: -85°F to +160°F (-65°C to +71°C) • Life: 20,000 operations at rated load 40,000 operations mechanical life						Inductive Load	Lamp Load	Resistive Load	Inductive Load
		1	8503	Maintained	5	20	15	3	15	10
				Momentary	4	15	10	2	15	7
		2	8504	Maintained	7	20	15	4	15	15
		10	2	11	8					
		4	8505	Maintained	5	20	12	4	15	15
				Momentary	4	18	10	2	11	8

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

8504

LEVER LOCK SELECTION TABLE







8505

CIRCUIT	IRCUIT WITH LEVER IN			ONE P	OLE	TWO PC	DLE	FOUR POLE			
Up Position	Center Position	Down Position (Keyway)	Lever ① Lock	Flush Screv	v Terminals	Flush Screw T	erminals	Flush Screw Terminals			
7 T T		Bushing Style	MS Part Number	Catalog Number	MS Part Number	Catalog Number	MS Part Number	Catalog Number			
ON → ON ON → ON ON → ON ON →	← OFF → ← OFF → OFF ← OFF → OFF	← ON ← ON ← ON ON ON ← ON	A B D E F	MS24658-21A -21B -21D -21E -21F MS24658-21G	8503K1 K27 K5 K2 K2 K28 8503K3	MS24659-21A -21B -21D -21E -21F MS24659-21G	8504K1 K27 K5 K2 K2 K28 8504K3	MS24660-21A -21B -21D -21E -21F MS24660-21G	8505K1 K27 K5 K2 K28 8505K3		
$ \begin{array}{c} ON \rightarrow \\ ON \\ ON \rightarrow \\ ON \\ \hline ON \rightarrow \end{array} $	OFF → ← OFF ← OFF → OFF → OFF	ON ← ON ON ON ON	H J K L	-21H -21J -21K -21L MS24658-21M	K29 K30 K31 <u>K32</u> 8503K33	-21H -21J -21K -21L MS24659-21M	K29 K30 K31 K32 8504K33	-21H -21J -21K -21L MS24660-21M	K29 K30 K31 K32 8505K33		
$ \begin{array}{c} ON \\ ON \rightarrow \\ ON \rightarrow \\ ON \rightarrow \end{array} $	← OFF OFF → NONE NONE	ON ← ON ← OFF OFF ← OFF	N P D F	-21N -21P -22D -22F MS24658-22G	K4 K34 K10 <u>K35</u> 8503K9	-21N -21P -22D -22F MS24659-22G	K4 K34 K10 <u>K35</u> 8504K9	-21N -21P -22D -22F MS24660-22G	K4 K34 K10 K35 8505K9		
$ \begin{array}{c} ON \rightarrow \\ ON \\ ON \\ ON \rightarrow \end{array} $	NONE NONE NONE ← OFF	← ON ON ← ON NONE NONE	D F G E	-23D -23F -23G -24E MS24658-24F	K6 K36 K7 K16 8503K37	-23D -23F -23G -24E MS24659-24F	K6 K36 K7 K16 8504K37	-23D -23F -23G -24E MS24660-24F	K6 K36 K7 K16 8505K37		
ON → ON → ON → * ON * ON	← OFF ← OFF NONE ← OFF → OFF →	NONE NONE ON * ON *	K M F E L	-24K -24M -26F MS24658-27E -27L	K38 K11 <u>K20</u> 8503K12 K39	-24K -24M -26F MS24659-27E -27L	K38 K11 K20 8504K12 K39	-24K -24M -26F MS24660-27E -27L	K38 K11 K20 8505K12 K39		
* ON NONE ON → OFF→ ON	← OFF OFF → NONE NONE ← OFF →	ON * ON * OFF* ON *	N E F E	-27N -28E -29F MS24658-30F -31E	K14 K15 K21 8503K19 K18	-27N -28E -29F MS24659-30F -31E	K14 K15 K21 8504K19 K18	-27N -28E -29F MS24660-30F -31E	K14 K15 K21 8505K19 K18		
ON → ON → ON	OFF → OFF → OFF →	ON * ON * ON *	F K	-31E -31F -31K -31I	K40 K41 K13	-31E -31F -31K -31I	K18 K40 K41 K13	-31E -31F -31K -31I	K40 K41 K13		



^{*} Momentary contact.
→ Indicates direction against which lever is locked. See page A71 for circuit diagrams.

① Reference bushing styles on page A26.

MILITARY - ENVIRONMENTALLY SEALED SWITCHES Series - 8503, 8504, 8505

MIL-DTL-3950 Lever Lock Switches

LEVER LOCK SELECTION TABLE, CONT'D







CIRCUIT	WITH LEVE	R IN		ONE P	OLE	TWO PO	OLE	FOUR POLE			
Up Position	Center Position	Down Position (Keyway)	Lever ① Lock	Flush Screv	v Terminals	Flush Screw	Terminals	Flush Screw	Terminals		
7	7 7 7		Bushing Style	MS Part Number	Catalog Number	MS Part Number	Catalog Number	MS Part Number	Catalog Number		
ON→	← OFF	ON *	М	MS24658-31M	8503K17	MS24659-31M	8504K17	MS24660-31M	8505K17		
ON	← OFF	ON *	N	-31N	K8	-31N	K8	-31N	K8		
* ON	← ON	NONE	E	-32E	K23	-32E	K23	-32E	K23		
ON	← ON	NONE NONE	E F	-33E	K24	-33E	K24	-33E	K24 K25		
ON→	ON ← ON	NONE	K	-33F MS24658-33K	K25 8503K26	-33F MS24659-33K	K25 8504K26	-33F MS24660-33K	8505K26		
ON→	← ON	NONE	M	-33M	6503K20 K42	-33M	6504K26 K42	-33M	K42		
ON→	← ON →	← ON	A	-55101	N42 —	MS27408-1A	K42 K43	MS27409-1A	K42 K43		
ON	← ON →	← ON	B		_	-1B	K43	-1B	K44		
ON→	ON	← ON	D		_	-1D	K45	-1D	K45		
ON	← ON →	ON	E	_		MS27408-1E	8504K46	MS27409-1E	8505K46		
ON→	ON	ON	Ē			-1F	K47	-1F	K47		
ON	ON	← ON	G	_	_	-1G	K48	-1G	K48		
ON→	ON→	ON	Ьй			-1H	K49	-1H	K49		
ON	← ON	← ON	J			-1J	K50	-1J	K50		
ON→	← ON →	ON	K			MS27408-1K	8504K51	MS27409-1K	8505K51		
ON	ON→	ON	L			-1L	K52	-1L	K52		
ON→	← ON	ON	М	_	_	-1M	K53	-1M	K53		
ON	← ON	ON	N			-1N	K54	-1N	K54		
ON	ON→	← ON	Р			-1P	K55	-1P	K55		
ON	\leftarrow ON \rightarrow	ON*	E			MS27408-2E	8504K56	MS27409-2E	8505K56		
ON→	ON	ON*	F			-2F	K57	-2F	K57		
$ON \rightarrow$	\leftarrow ON \rightarrow	ON*	K	_	_	-2K	K58	-2K	K58		
ON	ON→	ON*	L			-2L	K59	-2L	K59		
ON→	← ON	ON*	М			-2M	K60	-2M	K60		
ON	← ON	ON*	N			MS27408-2N	8504K61	MS27409-2N	8505K61		
* ON	← ON →	ON*	E			-3E	K62	-3E	K62		
* ON	ON→	ON*	L	_	_	-3L	K63	-3L	K63		
* ON	← ON →	ON * ← ON	N			-3N	K64	-3N —	K64		
ON→ ON	← ON →	← ON	A B			-4A MS27408-4B	K65				
ON→	ON	← ON	D			-4D	8504K66 K67				
ON	← ON →	ON	E			-4D -4E	K68				
ON→	ON	ON	F	_	_	-4F	K69	_	_		
ON	ON	← ON	Ġ			-4G	K70				
ON→	ON →	ON	H			MS27408-4H	8504K71				
ON	← ON	← ON	l 'i			-4J	K72				
ON→	\leftarrow ON \rightarrow	ON	K	_	_	-4K	K73	_	_		
ON	ON→	ON	Ĺ			-4L	K74				
ON→	← ON	ON	M			-4M	K75				
ON	← ON	ON	N			MS27408-4N	8504K76				
ON	ON→	← ON	Р			-4P	K77				
ON	\leftarrow ON \rightarrow	ON*	E	_	_	-5E	K78	_	_		
ON→	ON	ON*	F			-5F	K79				
ON→	← ON →	ON*	K			-5K	K80				
ON	ON→	ON*	L			MS27408-5L	8504K81				
ON→	← ON	ON*	M			-5M	K82				
ON	← ON	ON*	N	_	_	-5N	K83	_	_		
* ON	← ON →	ON*	E			-6E	K84				
* ON	ON→	ON*	L			-6L	K85	1			
* ON	← ON OFF	* ON	N	_	_	-6N	K86	_	_		
ON	← ON-OFF	→ ← ON	В			-7B	K87				

^{*} Momentary contact.

① Reference bushing styles on page A26.

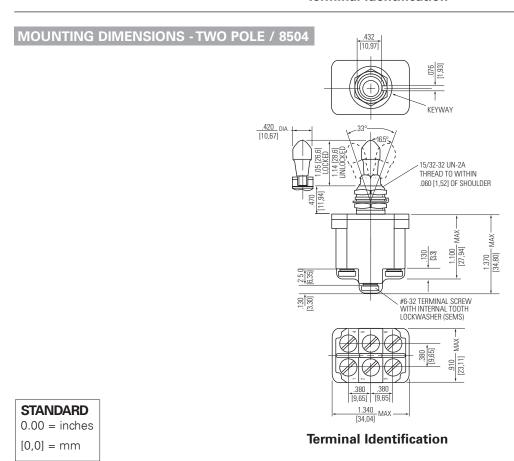




[→] Indicates direction against which lever is locked. See page A71 for circuit diagrams.

MOUNTING DIMENSIONS - ONE POLE / 8503 KFYWAY 15/32-32 UN-2A THREAD TO WITHIN .060 [1,52] OF SHOULDER #6-32 TERMINAL SCREW WITH INTERNAL TOOTH LOCKWASHER (SEMS)

Terminal Identification



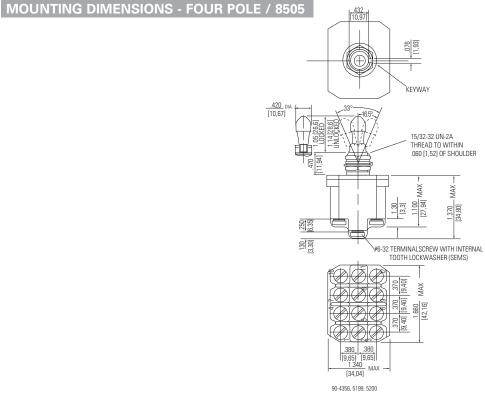
Mounting dimensions for reference only.

Non-functional terminals not supplied.



MILITARY - ENVIRONMENTALLY SEALED SWITCHES Series - 8503, 8504, 8505

MIL-DTL-3950 Lever Lock Switches



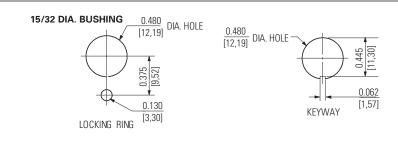
Terminal Identification

Non-functional terminals not supplied.

LEVER LOCK - BUSHING STYLES OPTIONS/ACCESSORIES Special mounting hardware Mounting hardware furnished assembled Terminal screws furnished assembled LOCKED IN 3 LOCKED IN LOCKED OUT • Substitute SEMS screws CENTER AND IN KEYWAY SIDE CENTER POSITION Special circuits KFYWAY • Panel seal, part number 32-341 (See Accessories and Custom Components section) Special shaped caps available Custom wiring harnesses KEYWAY SIDE LOCKED OUT OF LOCKED IN LOCKED OUT LOCKED OUT LOCKED OUT CENTER AND SIDE OPPOSITE KEYWAY CENTER AND OF AND INTO SIDE OPPOSITE OF SIDE OPPOSITE KEYWAYSIDE SIDE OPPOSITE KEYWAY SIDE KEYWAY KEYWAY

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

PANEL CUTOUT DIMENSIONS



[0,0] = mm

STANDARD

0.00 = inches

Mounting dimensions for reference only.

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