

M8834

ENVIRONMENTALLY SEALED POSITIVE ACTION SWITCHES

MS14001 、 14002 、 14003 、 25306 、 25307 、 25308 、 24614

Features

1. Environmentally sealed
2. High electrical/ mechanical reliability
3. Non-teasible mechanism
4. Wiping action contacts
5. Positive make and break action
6. Molded-in terminal numbers
7. One hole mounting for easy installation
8. Terminal variations
9. Toggle and lever lock Actuator
10. Dry circuit (logic level loads) to power switching levels
11. Solderable screw terminals
12. 1, 2 and 4 pole circuitry

Specifications

1. Environmentally sealed per MIL-DTL-8834
2. MS approved and QPL'd per MIL-DTL-8834
3. Two terminal variations
 - Screw 6-32 UNC-2B threads
 - Solder Lug .125 [3,17] dia. hole
4. Temperature range:
 - 67°F to +160°F
 - (-55°C to +71°C)
5. Life: 20,000 cycles at rated load 40,000 cycles mechanical life
6. Positive action mechanism for high reliability and low contact bounce

Current ratings

No. of poles	28 VDC (Amp per pole)			115 VAC 400 Hz			115 VAC 60 Hz		
	Lamp	Resistive	Inductive	Lamp	Resistive	Inductive	Lamp	Resistive	Inductive
1, 2, 4	7	26	16	7	26	16	7	20	16

Selection table

Circuit with lever in			Military P/N	
Up position	Center position	Down position	Screw terminal	Solder lug
One pole				
ON	OFF	ON	MS25306-212	MS14001-212
ON	NONE	OFF	MS25306-222	MS14001-222
ON	NONE	ON	MS25306-232	MS14001-232
ON	OFF	NONE	MS25306-242	MS14001-242
ON	NONE	ON*	MS25306-262	MS14001-262
ON	OFF	ON	MS25306-272	MS14001-272
NONE	OFF	ON*	MS25306-282	MS14001-282
ON	NONE	OFF*	MS25306-292	MS14001-292
OFF	NONE	ON*	MS25306-302	MS14001-302
ON	OFF	ON*	MS25306-312	MS14001-312
Two pole				
ON	OFF	ON	MS25307-212	MS14002-212
ON	NONE	OFF	MS25307-222	MS14002-222
ON	NONE	ON	MS25307-232	MS14002-232
ON	OFF	NONE	MS25307-242	MS14002-242
ON	NONE	ON*	MS25307-262	MS14002-262
ON	OFF	ON	MS25307-272	MS14002-272
NONE	OFF	ON*	MS25307-282	MS14002-282
ON	NONE	OFF*	MS25307-292	MS14002-292
OFF	NONE	ON*	MS25307-302	MS14002-302
ON	OFF	ON*	MS25307-312	MS14002-312
Four pole				
ON	OFF	ON	MS25308-212	MS14003-212
ON	NONE	OFF	MS25308-222	MS14003-222
ON	NONE	ON	MS25308-232	MS14003-232
ON	OFF	NONE	MS25308-242	MS14003-242
ON	NONE	ON*	MS25308-262	MS14003-262
ON	OFF	ON	MS25308-272	MS14003-272
NONE	OFF	ON*	MS25308-282	MS14003-282
ON	NONE	OFF*	MS25308-292	MS14003-292
OFF	NONE	ON*	MS25308-302	MS14003-302
ON	OFF	ON*	MS25308-312	MS14003-312

* Momentary contact

Selection table

Circuit with lever in			Lever lock bushing style	Military P/N
Up position	Center position	Down position		
One pole				
ON→	←OFF→	←ON	A	MS24612-A212
ON	←OFF→	ON	B	MS24612-B212
ON	←OFF	NONE	B	MS24612-B242
ON	OFF	←ON	C	MS24612-C212
ON	NONE	←OFF	C	MS24612-C222
ON	NONE	←ON	C	MS24612-C232
ON	←OFF	ON	D	MS24612-D212
ON→	OFF	←ON	E	MS24612-E212
ON→	NONE	←OFF	E	MS24612-E222
ON→	NONE	←ON	E	MS24612-E232
ON	←OFF→	ON	F	MS24612-F272
ON	OFF→	ON*	G	MS24612-G312
ON	←OFF	ON	H	MS24612-H272
ON→	←OFF	NONE	J	MS24612-J242
NONE	OFF→	ON*	K	MS24612-K282
ON	←OFF→	ON*	K	MS24612-K312
ON→	NONE	ON*	L	MS24612-L262
ON→	NONE	OFF*	L	MS24612-L292
OFF→	NONE	ON*	L	MS24612-L302
ON	←OFF	ON*	M	MS24612-M312
ON→	←OFF	ON*	N	MS24612-N312
Two pole				
ON→	←OFF→	←ON	A	MS24613-A212
ON	←OFF→	ON	B	MS24613-B212
ON	←OFF	NONE	B	MS24613-B242
ON	OFF	←ON	C	MS24613-C212
ON	NONE	←OFF	C	MS24613-C222
ON	NONE	←ON	C	MS24613-C232
ON	←OFF	ON	D	MS24613-D212
ON→	OFF	←ON	E	MS24613-E212
ON→	NONE	←OFF	E	MS24613-E222
ON→	NONE	←ON	E	MS24613-E232
ON	←OFF→	ON	F	MS24613-F272

ON	OFF→	ON*	G	MS24613-G312
ON	←OFF	ON	H	MS24613-H272
ON→	←OFF	NONE	J	MS24613-J242
NONE	OFF→	ON*	K	MS24613-K282
ON	←OFF→	ON*	K	MS24613-K312
ON→	NONE	ON*	L	MS24613-L262
ON→	NONE	OFF*	L	MS24613-L292
OFF→	NONE	ON*	L	MS24613-L302
ON	←OFF	ON*	M	MS24613-M312
ON→	←OFF	ON*	N	MS24613-N312
Four pole				
ON→	←OFF→	←ON	A	MS24614-A212
ON	←OFF→	ON	B	MS24614-B212
ON	←OFF	NONE	B	MS24614-B242
ON	OFF	←ON	C	MS24614-C212
ON	NONE	←OFF	C	MS24614-C222
ON	NONE	←ON	C	MS24614-C232
ON	←OFF	ON	D	MS24614-D212
ON→	OFF	←ON	E	MS24614-E212
ON→	NONE	←OFF	E	MS24614-E222
ON→	NONE	←ON	E	MS24614-E232
ON	←OFF→	ON	F	MS24614-F272
ON	OFF→	ON*	G	MS24614-G312
ON	←OFF	ON	H	MS24614-H272
ON→	←OFF	NONE	J	MS24614-J242
NONE	OFF→	ON*	K	MS24614-K282
ON	←OFF→	ON*	K	MS24614-K312
ON→	NONE	ON*	L	MS24614-L262
ON→	NONE	OFF*	L	MS24614-L292
OFF→	NONE	ON*	L	MS24614-L302
ON	←OFF	ON*	M	MS24614-M312
ON→	←OFF	ON*	N	MS24614-N312

* Momentary contact

MINIATURE POSITIVE ACTION SWITCHES

MS21354 、 21355 、 21356 、 21357 、 21433 、 21434

Features

1. Sealed bushing
2. Dry circuit (logic level loads) to power switching levels
3. Two bushing and toggle lever sizes
4. 1 and 2 pole circuitry
5. Non-teasible mechanism for all but center "ON" circuits
6. Wiping action contacts
7. Positive make and break action
8. Small and large size bushings and Actuator
9. Printed circuit board termination
10. Two types of printed circuit board terminals:
 - Straight
 - Formed (Right Angle)

Specifications

1. Bushing seal or bonded seal per MIL-DTL 8834
2. MS approved and QPL'd to MIL-DTL-8834
3. Temperature range: -67°F to +160°F (-55°C to +71°C)
4. Life: 20,000 operations at rated load 40,000 operations mechanical life
5. "O" ring panel seal on ¼" - 40 type bushing size

Current ratings

No. of poles	28 VDC (Amp per pole)		115 VAC 400 Hz		115 VAC 60 Hz	
	Resistive	Inductive	Resistive	Inductive	Resistive	Inductive
1, 2	5	1	3	2	2	1

Selection table

Circuit with lever in			Small lever with straight mount PC terminals	Small lever with formed mount PC terminals	Large lever with straight mount PC terminals	
Up Position	Center position	Down position	Military P/N			
One pole						
ON	OFF	ON	MS21354-211	MS21433-211	MS21356-211	Feature not available in single pole switches
ON	NONE	OFF	MS21354-221	MS21433-221	MS21356-221	
ON	NONE	ON	MS21354-231	MS21433-231	MS21356-231	
ON	OFF	NONE	MS21354-241	MS21433-241	MS21356-241	
ON	OFF	ON	MS21354-271	MS21433-271	MS21356-271	
NONE	OFF	ON*	MS21354-281	MS21433-281	MS21356-281	
ON	OFF	ON*	MS21354-311	MS21433-311	MS21356-311	
NONE	ON	ON*	MS21354-321	MS21433-321	MS21356-321	
Two pole						
ON	OFF	ON	MS21355-211	MS21434-211	MS21357-211	MS21357-711
ON	NONE	OFF	MS21355-221	MS21434-221	MS21357-221	MS21357-721
ON	NONE	ON	MS21355-231	MS21434-231	MS21357-231	MS21357-731
ON	OFF	NONE	MS21355-241	MS21434-241	MS21357-241	MS21357-741
ON	OFF	ON	MS21355-271	MS21434-271	MS21357-271	MS21357-771
NONE	OFF	ON*	MS21355-281	MS21434-281	MS21357-281	MS21357-781
ON	OFF	ON*	MS21355-311	MS21434-311	MS21357-311	MS21357-811
NONE	ON	ON*	MS21355-321	MS21434-321	MS21357-321	MS21357-821
ON	ON	ON	MS21355-331	MS21434-331	MS21357-331	MS21357-831
ON	ON	ON*	MS21355-351	MS21434-351	MS21357-351	MS21357-851
ON	ON	ON	MS21355-341	MS21434-341	MS21357-341	MS21357-841