

PERFORMANCE SPECIFICATION SHEET

SWITCHES, THERMOSTATIC, (BIMETALLIC), TYPE I,  
HERMETICALLY SEALED, SINGLE POLE, SINGLE THROW  
(SPST), 1 AMPERE AND LOW LEVEL

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the switches described herein shall consist of this specification sheet and MIL-PRF-24236.

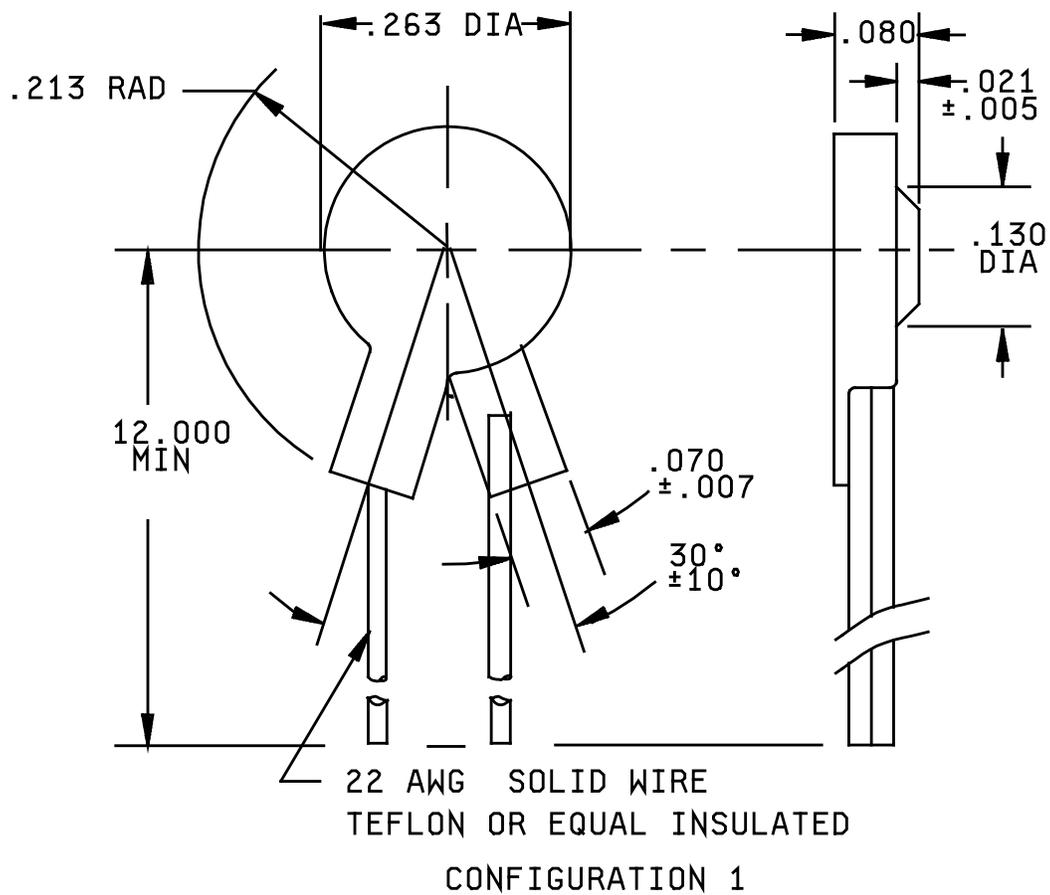


FIGURE 1. Switches.

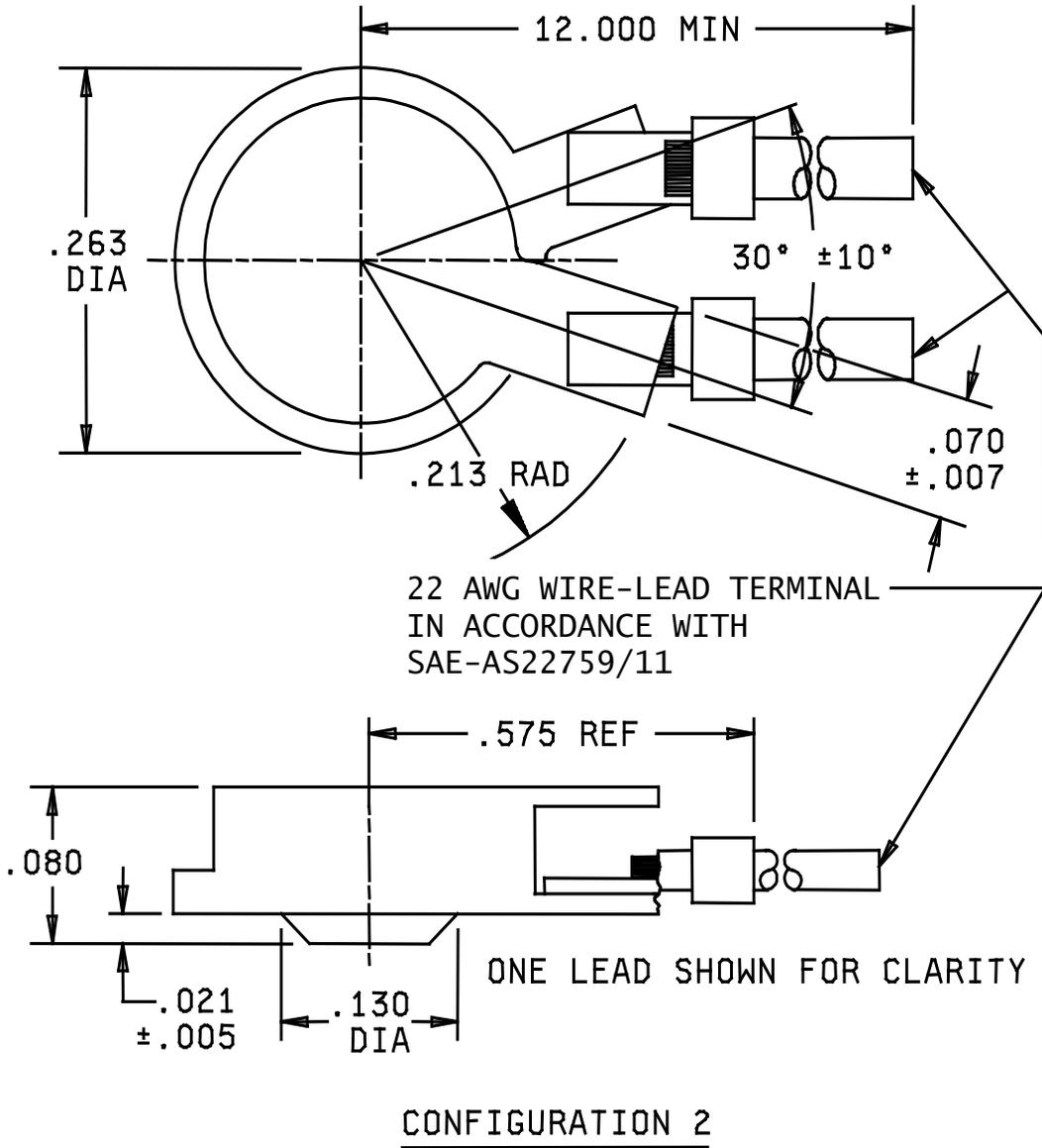
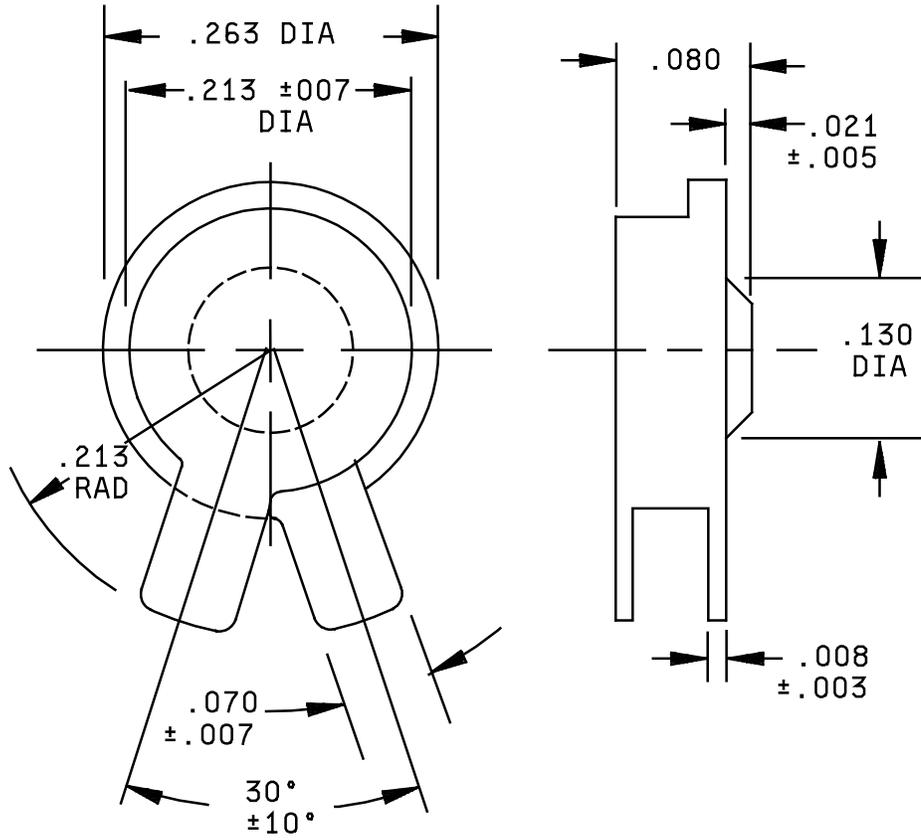


FIGURE 1. Switches - Continued.



CONFIGURATION 3

Inches	mm
.003	.08
.007	.18
.008	.20
.021	.53
.070	1.78
.080	2.03
.130	3.30
.213	5.41
.263	6.68
.575	14.60
12.000	304.80

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ±.015 (0.38 mm).

FIGURE 1. Switches - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

High temperature setting: -30°F to +365°F (see tables II and III).

High temperature setting tolerance:  $\pm 8^\circ\text{F}$ .

Low temperature setting (differential):  $30^\circ\text{F} \pm 8^\circ\text{F}$  below applicable high temperature setting.

Class: 4, except vibration 10 to 2,000 Hz, 30 G.

Notes:

1. Devices with open on temperature rise should not be subjected to vibration while at temperatures of  $75^\circ\text{F}$  or more below the opening temperature.
2. Devices with close on temperature rise should not be subjected to vibration while at temperatures of  $75^\circ\text{F}$  or more above the opening temperature.

Mounting: See figure 1.

Weight: 0.3 gram maximum.

Dielectric withstanding voltage:

Sea level - 500 V ac for 5 seconds or 400 V ac for 1 minute.

70,000 feet - 250 V ac.

Electrical ratings:

1.0 ampere resistive at 115 V ac, 60 Hz.

1.0 ampere resistive at 28 V dc.

10 milliamperes resistive at 30 millivolts dc or 30 millivolts peak ac (when specified, see PIN information).

Endurance: 10,000 cycles.

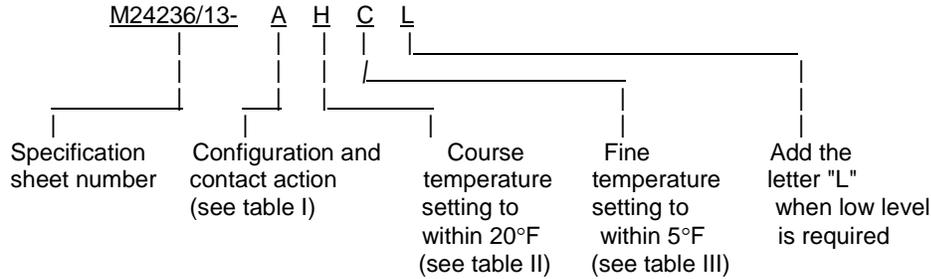
Salt spray (corrosion): In accordance with MIL-PRF-24236, except switches shall be subjected to and pass the seal test after undergoing salt spray. NOTE: Destructive corrosion shall be construed as any type of corrosion which in any way interferes with the mechanical or electrical performance of the switch, or corrosion which causes seal failure.

Marking: Identification marking shall be placed on the unit package label or tag.

Low level: When specified, see PIN information.

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Part or Identifying Number (PIN): PIN shall be assigned as illustrated below:



PIN M24236/13-AHCL identifies a thermostatic switch that opens on increasing temperature at 120°F ±8°F with a temperature differential of 30°F ±8°F with low level capabilities.

Qualification:

Group submission: See table IV.

Substitutability: See table V.

TABLE I. Configuration and contact action.

	Configuration			Contact action
	1	2	3	
Code -----	A	C	E	Open on increasing temperature
Code -----	B	D	F	Close on increasing temperature
Code -----	A	C	E	Close on decreasing temperature
Code -----	B	D	F	Open on decreasing temperature

TABLE II. Course high temperature setting to within 20°F.

Code	Temperature (°F)	Code	Temperature (°F)
A -----	-30	M-----	+190
B -----	-10	N-----	+210
C -----	+10	P-----	+230
D -----	+30	Q-----	+250
E -----	+50	R-----	+270
F -----	+70	S-----	+290
G-----	+90	T-----	+310
H-----	+110	U-----	+330
J-----	+130	V-----	+350
K-----	+150	W-----	+365
L-----	+170		

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TABLE III. Fine high temperature setting to within 5°F.

Code	Temperature
	(°F)
A -----	0
B -----	+5
C -----	+10
D -----	+15

TABLE IV. Extent of qualification.

Configuration	Number of samples required	Tests	Qualifies
1	All in accordance with qualification table of MIL-PRF-24236	Complete in accordance with qualification inspection of MIL-PRF-24236	All
2	2 each	Visual and mechanical examination, terminal strength, shock and vibration	
3	2 each		

TABLE V. Supersession data.

Superseded Military PIN M24236/13-	Superseding Military PIN M24236/13-	Superseded Military PIN M24236/13-	Superseding Military PIN M24236/13-
01	BLB	24	AFA
02	BLD	25	AFB
03	BMB	26	AFC
04	BMC	27	AFD
05	BNC	28	AGA
06	BPA	29	AGB
07	BPC	30	AGC
08	BQB	31	AGD
09	BRB	32	AHA
10	ABC	33	AHB
11	ABD	34	AHC
12	ACA	35	AHD
13	ACB	36	AJA
14	ACC	37	AJB
15	ACD	38	AJC
16	ADA	39	AJD
17	ADB	40	AKA
18	ADC	41	AKB
19	ADD	42	AKC
20	AEA	43	AKD
21	AEB	44	ALA
22	AEC	45	ALB
23	AED	46	ALC

TABLE V. Supersession data - Continued.

Superseded Military PIN M24236/13-	Superseding Military PIN M24236/13-	Superseded Military PIN M24236/13-	Superseding Military PIN M24236/13-
47	ALD	81	BBC
48	AMA	82	BBD
49	AMB	83	BCA
50	AMC	84	BCB
51	AMD	85	BCC
52	ANA	86	BCD
53	ANB	87	BDA
54	ANC	88	BDB
55	AND	89	BDC
56	APA	90	BDD
57	APB	91	BEA
58	APC	92	BEB
59	APD	93	BEC
60	AQA	94	BED
61	AQB	95	BFA
62	AQC	96	BFB
63	AQD	97	BFC
64	ARA	98	BFD
65	ARB	99	BGA
66	ARC	100	BGB
67	ARD	101	BGC
68	ASA	102	BGD
69	ASB	103	BHA
70	ASC	104	BHB
71	ASD	105	BHC
72	ATA	106	BHD
73	ATB	107	BJA
74	ATC	108	BJB
75	ATD	109	BJC
76	AUA	110	BJD
77	AUB	111	BKA
78	AUC	112	BKB
79	AUD	113	BKC
80	AVA	114	BKD
115	BLA	129	BRD
116	BLC	130	BSA
117	BMA	131	BSB
118	BMD	132	BSC
119	BNA	133	BSD
120	BNB	134	BTA
121	BND	135	BTB
122	BPB	136	BTC
123	BPD	137	BTD
124	BQA	138	BUA
125	BQC	139	BUB
126	BQD	140	BUC
127	BRA	141	BUD
128	BRC	142	BVA

Referenced documents:

MIL-PRF-24236  
SAE-AS22759/11

The margins of this specification are marked with vertical lines to indicate where modifications from this revision were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Custodians:

Army - CR  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5930-2012-039)

Review activities:

Army - AR, AT, AV, MI  
Navy - AS, MC, OS  
Air Force - 99

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