

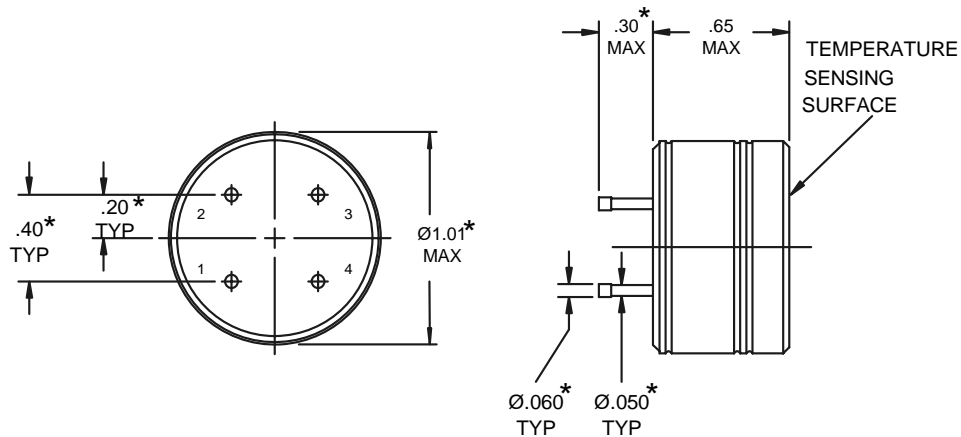
INCH-POUND
MIL-PRF-24236/29
21 October 2006

PERFORMANCE SPECIFICATION SHEET

SWITCHES, THERMOSTATIC, (BIMETALLIC), TYPE I,
HERMETICALLY SEALED, SINGLE POLE,
SINGLE THROW (SPST), 10 AMPERE

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 and the latest issue of MIL-PRF-24236.



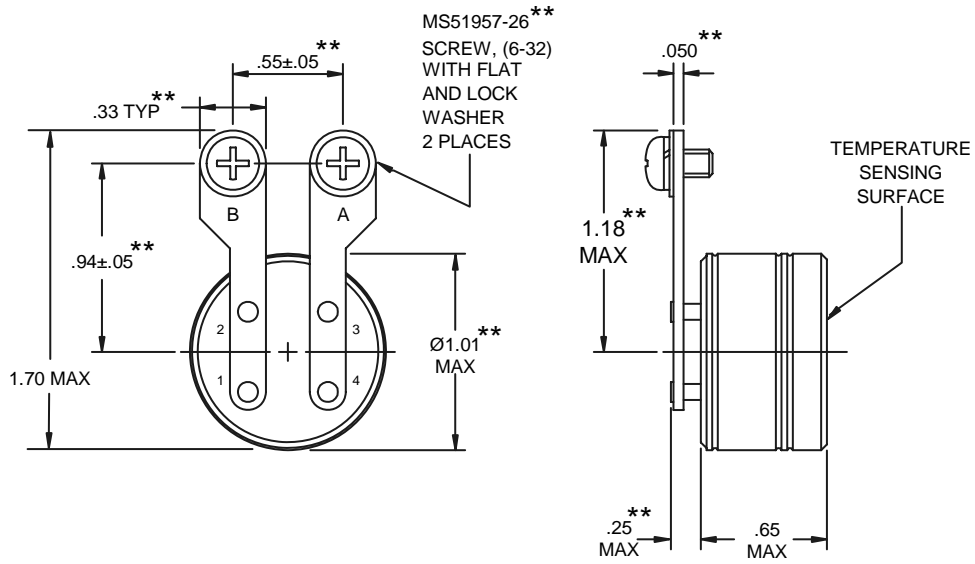
CONFIGURATION 1

WEIGHT: 0.07 pound maximum (30 grams)

* Typical all solder terminal configurations

FIGURE 1. Switches.

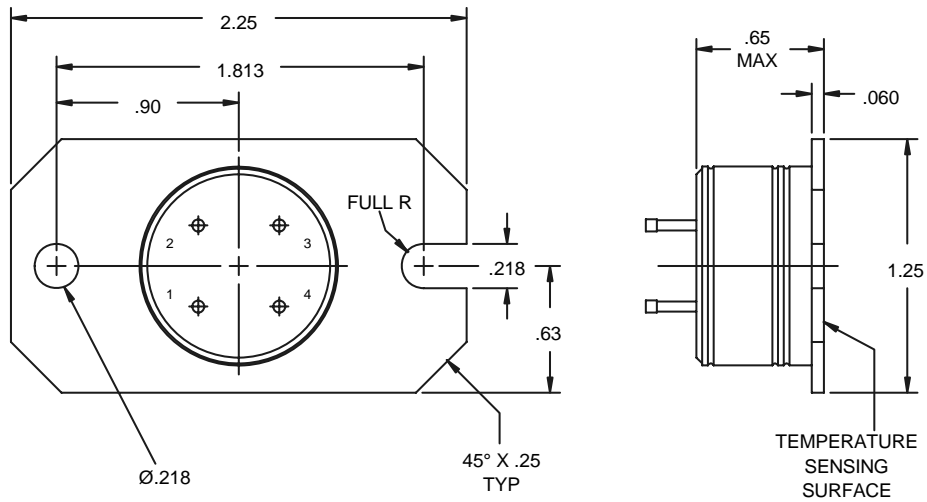
MIL-PRF-24236/29



CONFIGURATION 2

WEIGHT: 0.08 pound maximum (36 grams)

** Typical all screw terminal configurations

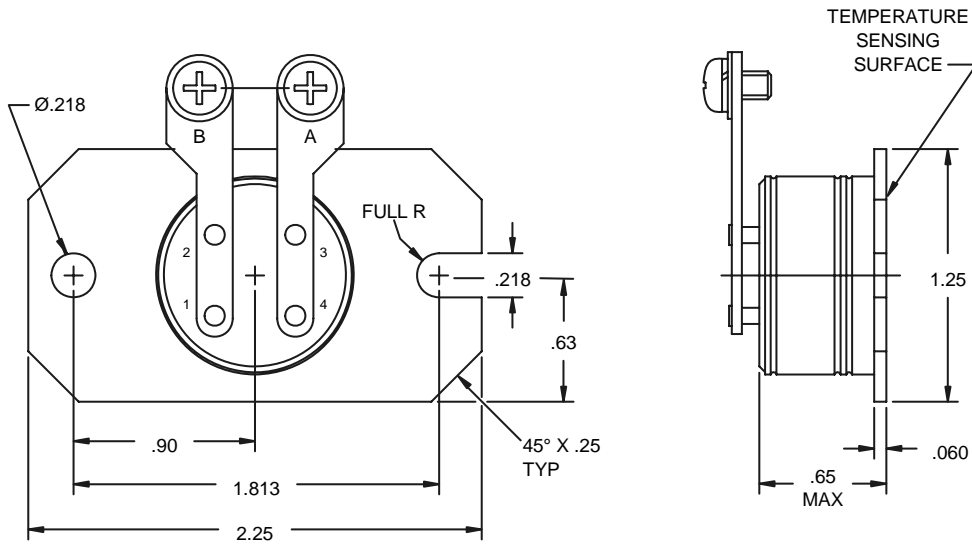


CONFIGURATION 3

WEIGHT: 0.11 pound maximum (50 grams)

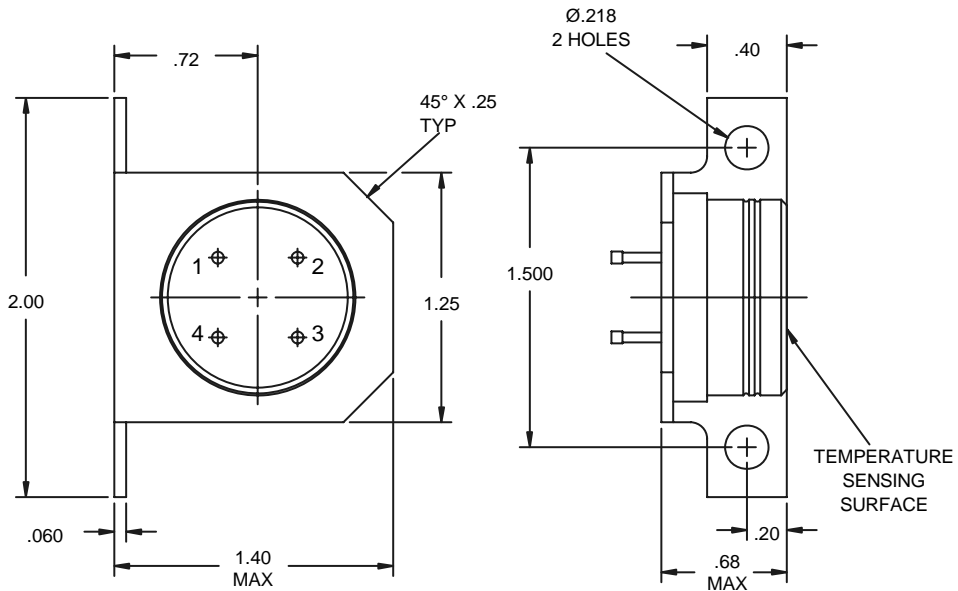
FIGURE 1. Switches – Continued

MIL-PRF-24236/29



CONFIGURATION 4

WEIGHT: 0.12 pound maximum (56 grams)

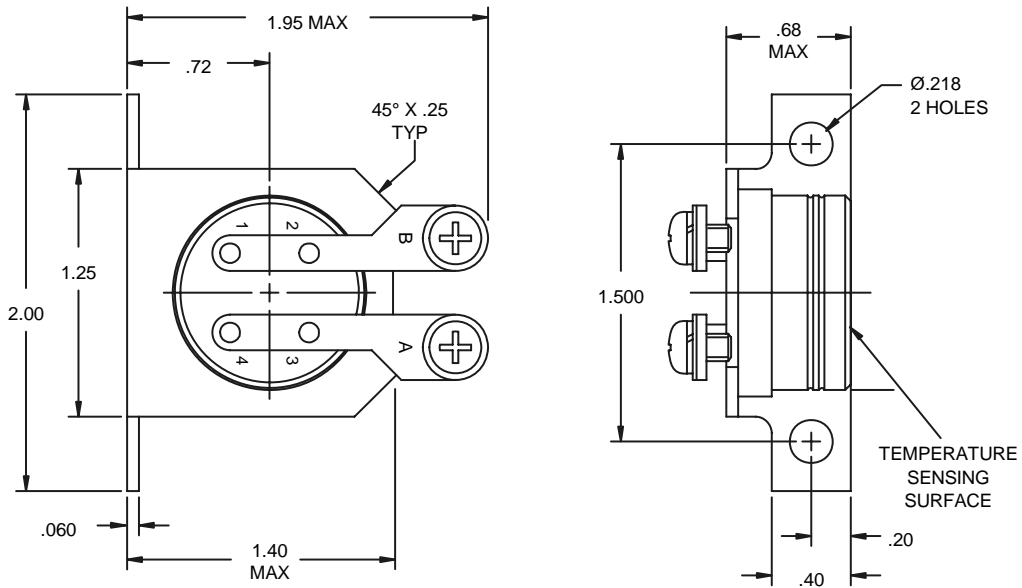


CONFIGURATION 5

WEIGHT: 0.11 pound maximum (50 grams)

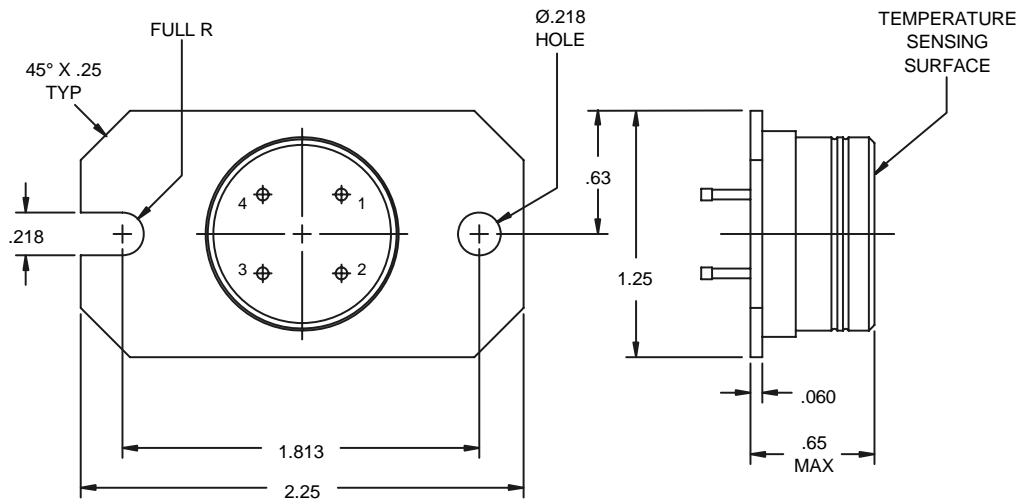
FIGURE 1. Switches - Continued

MIL-PRF-24236/29



CONFIGURATION 6

WEIGHT: 0.12 pound maximum (55 grams)

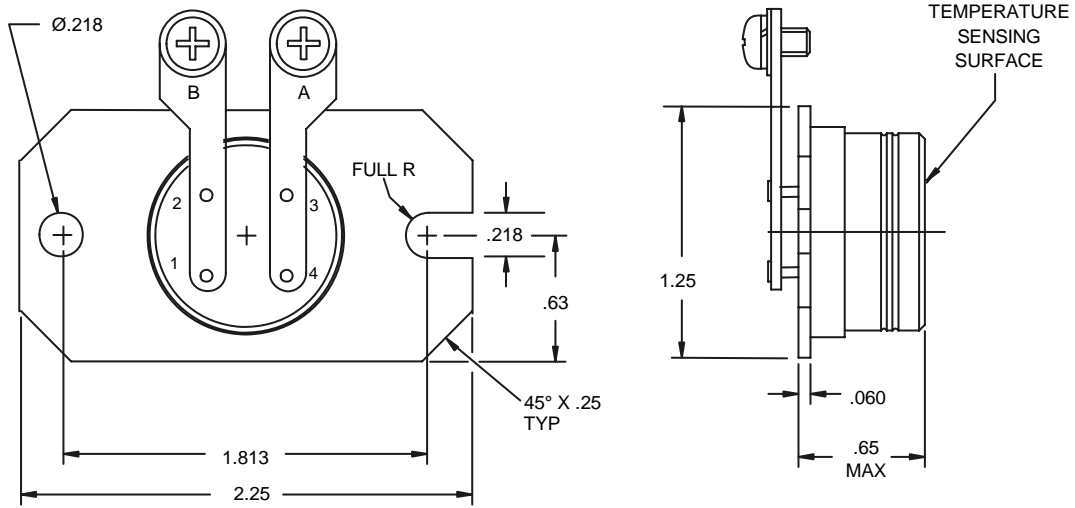


CONFIGURATION 7

WEIGHT: 0.11 pound maximum (50 grams)

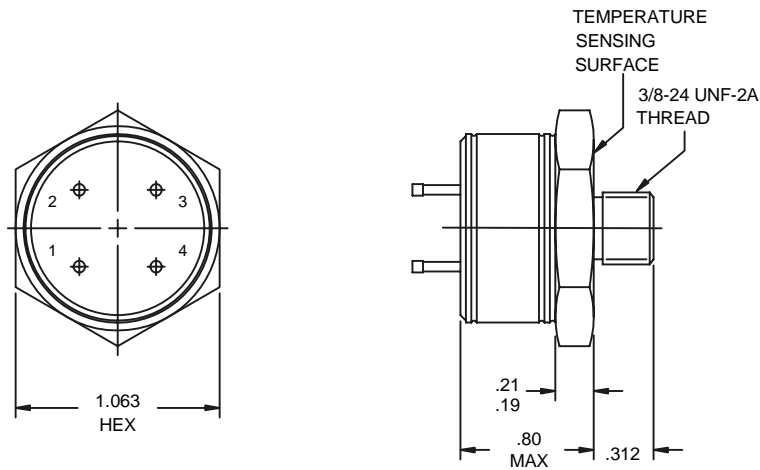
FIGURE 1. Switches - Continued

MIL-PRF-24236/29



CONFIGURATION 8

WEIGHT: 0.12 pound maximum (56 grams)

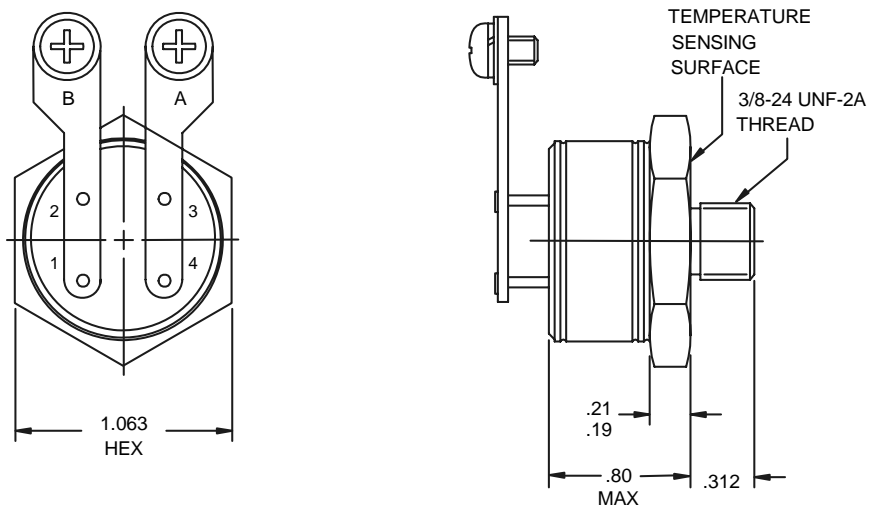


CONFIGURATION 9

WEIGHT: 0.10 pound maximum (43 grams)

FIGURE 1. Switches – Continued

MIL-PRF-24236/29

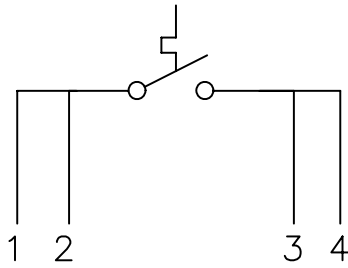


CONFIGURATION 10

WEIGHT: 0.11 pound maximum (50 grams)

FIGURE 1. Switches – Continued

MIL-PRF-24236/29

FIGURE 2. Schematic Diagram

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.050	1.27	0.25	6.4	0.63	16.0	0.94	23.9	1.40	35.6
0.060	1.52	0.30	7.6	0.65	16.5	0.98	24.9	1.50	38.1
0.19	4.8	0.31	7.9	0.68	17.3	1.01	25.7	1.813	46.05
0.20	5.1	0.33	8.4	0.72	18.3	1.063	27.00	1.95	49.5
0.218	5.54	0.40	10.2	0.80	20.3	1.18	30.0	2.00	50.8
0.22	5.5	0.55	14.0	0.90	22.9	1.25	31.8	2.25	57.2

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified tolerances are ± 0.020 (0.51 mm)

MIL-PRF-24236/29

REQUIREMENTS:

Dimensions and configuration: See Figure 1 and Table I.

Tolerance: .XX = ± 0.03
 .XXX = ± 0.010
 Angle = $\pm 5^\circ$

Temperature Setpoint Range: -85°F (-65°C) to $+350^\circ\text{F}$ ($+177^\circ\text{C}$).

Standard setpoint tolerance: $\pm 5^\circ\text{F}$ (2.8°C)

Standard differential (deadband): 6 to 36°F (3.3 to 20°C)

Vibration: Class 4, except vibration 10 to 2,000 Hz, 16 G.

Mounting: See Figure 1.

Weight: See Figure 1.

Schematic Diagram: See Figure 2

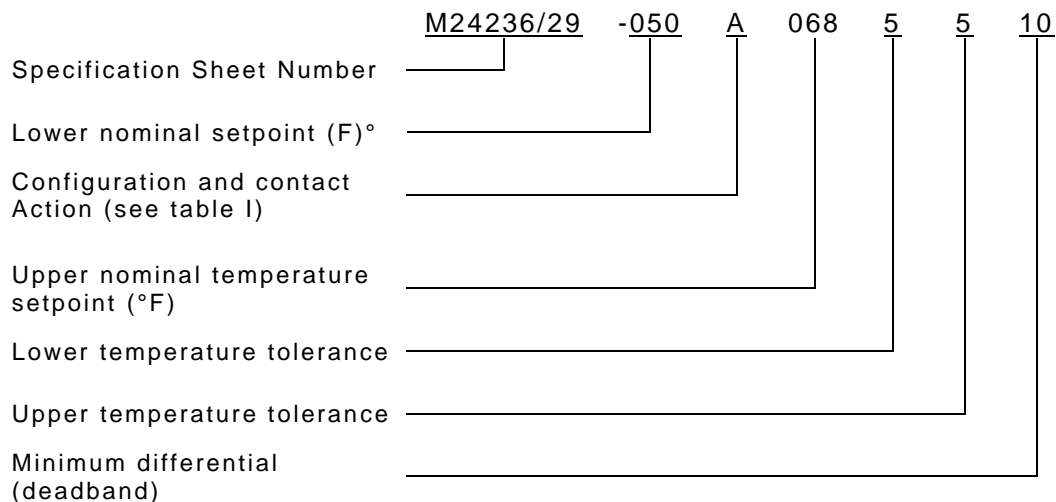
Dielectric withstanding voltage: 1,500 VAC, 5 seconds, terminals to case.

Electrical ratings: See Table II.

Endurance: See Table II.

Marking: In accordance with MIL-PRF-24236.

Part or identifying Number (PIN): As shown in the following example:



The above example identifies a switch of configuration 1 which opens on increasing temperature at $68 \pm 5^\circ\text{F}$, and closes on decreasing temperature at $50 \pm 5^\circ\text{F}$ with 10°F minimum differential.

MIL-PRF-24236/29

TABLE I. Configuration and contact action.

	Configuration										Contact action
	1	2	3	4	5	6	7	8	9	10	
Code	A	C	E	G	J	L	N	Q	S	U	Open on increasing temperature
Code	B	D	F	H	K	M	P	R	T	V	Close on increasing temperature

TABLE II. Electrical ratings.

	Altitude				Life cycles
	Sea level to Space				
	55VDC (amperes)	28 VDC (amperes)	115 V, 60 Hz (amperes)	75 VDC (amperes)	
Resistive	3.0	10.0	15.0	-	100,000
Inductive	-	-	-	0.75	1,000,000
Motor	-	4.5	-	-	10,000

TABLE III. 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. Endurance 28VDC, 10.0 ampere.	All

Referenced Documents: MIL-PRF-24236

Custodians:
 Army – CR
 Navy – EC
 Air Force – 11
 DLA – CC

Preparing activity:
 DLA – CC
 (Project 5930-2007-001)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil/>.