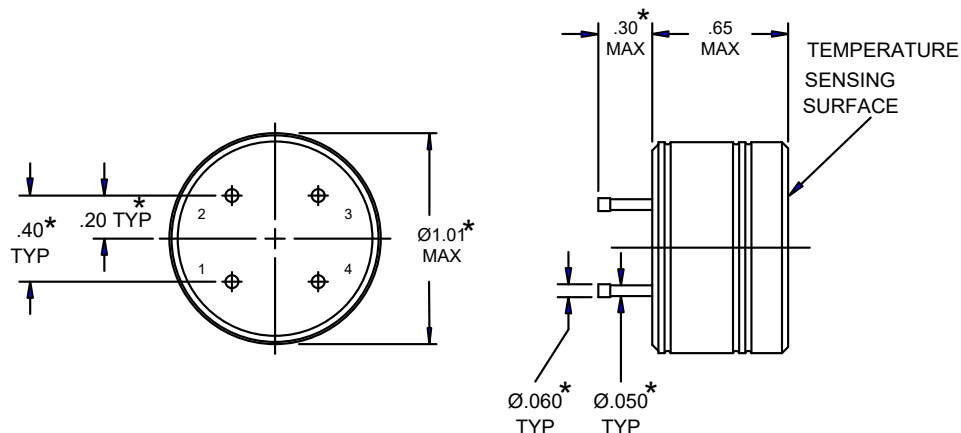


PERFORMANCE SPECIFICATION SHEET

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](#).



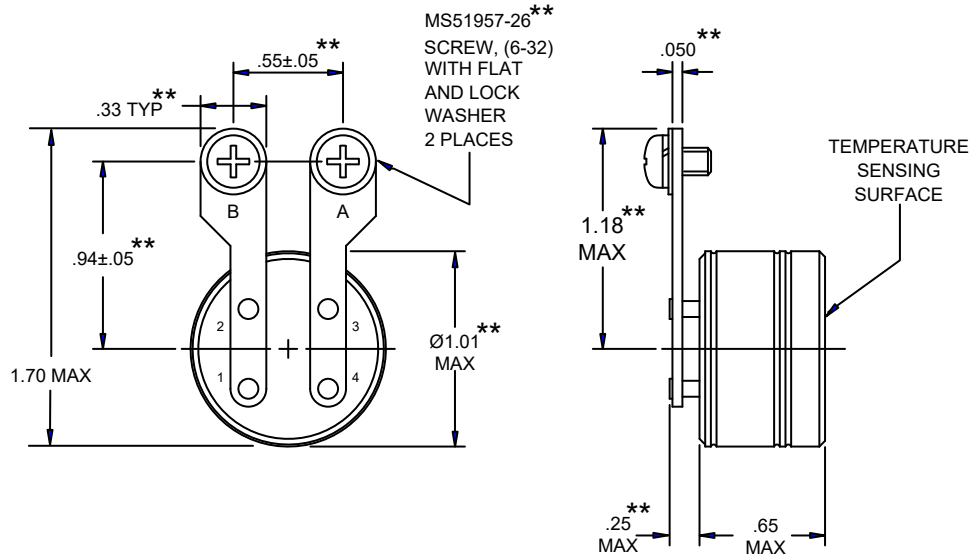
CONFIGURATION 1

WEIGHT: 0.07 pound maximum (30 grams)

* Typical all solder terminal configurations

FIGURE 1. Switches.

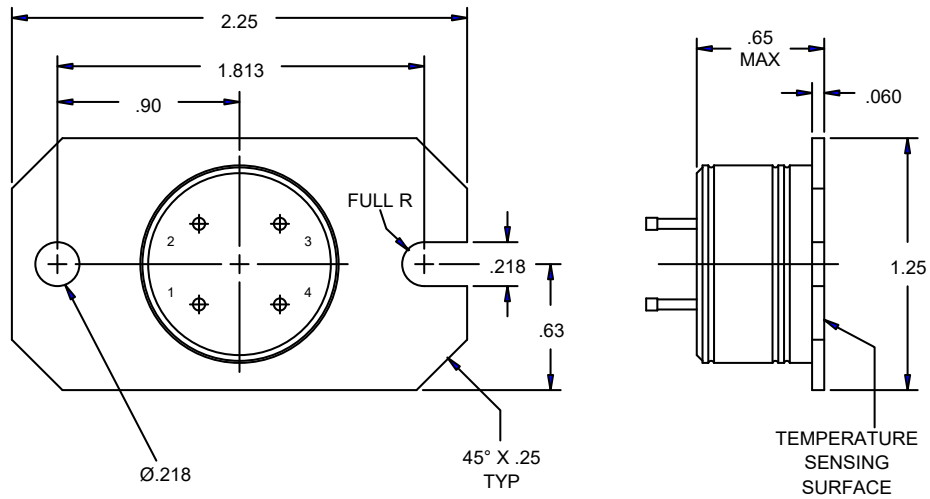




CONFIGURATION 2

WEIGHT: 0.08 pound maximum (36 grams)

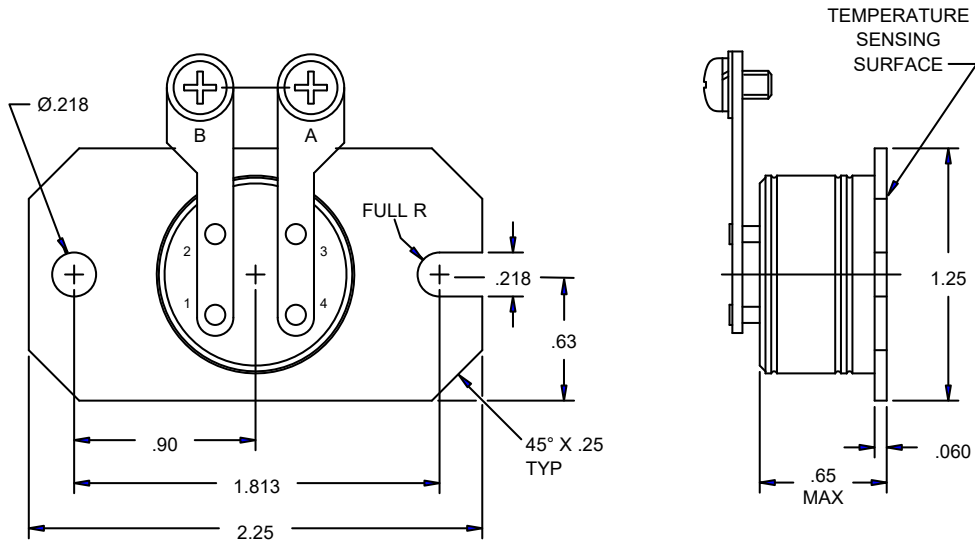
** Typical all screw terminal configurations



CONFIGURATION 3

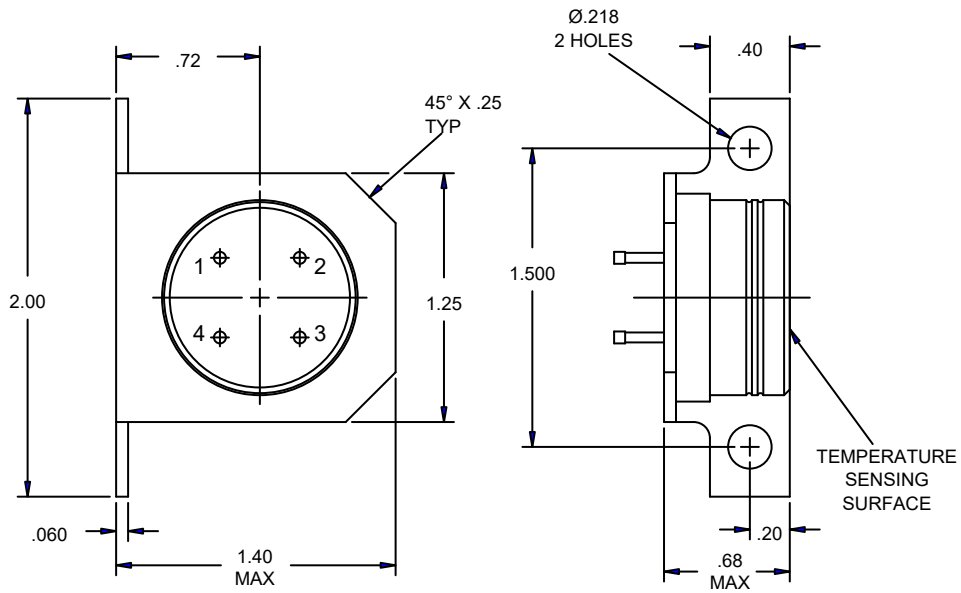
WEIGHT: 0.11 pound maximum (50 grams)

FIGURE 1. Switches – Continued



CONFIGURATION 4

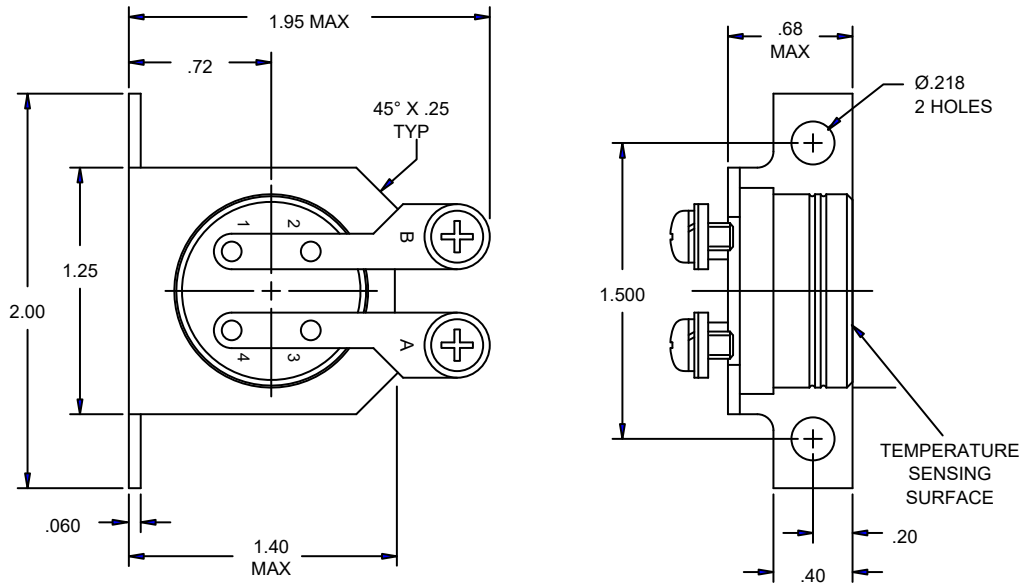
WEIGHT: 0.12 pound maximum (56 grams)



CONFIGURATION 5

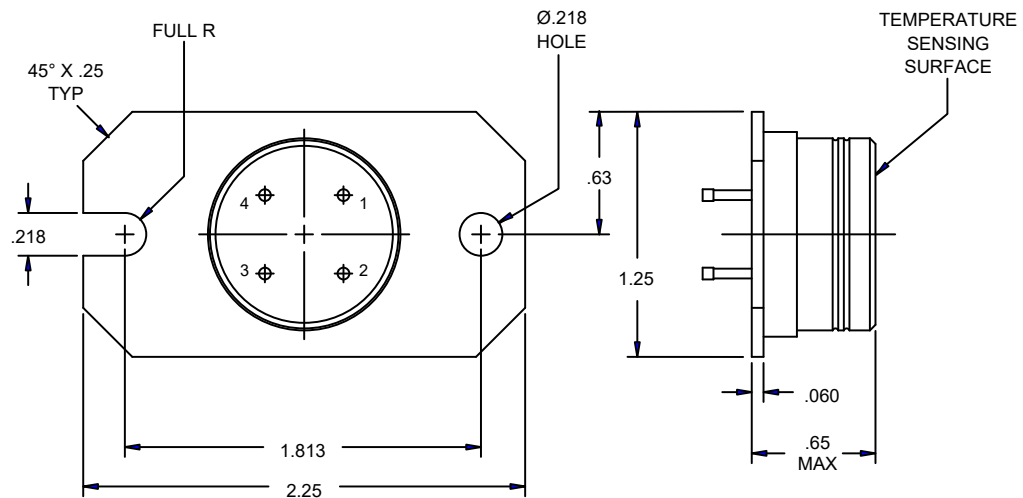
WEIGHT: 0.11 pound maximum (50 grams)

FIGURE 1. Switches – Continued



CONFIGURATION 6

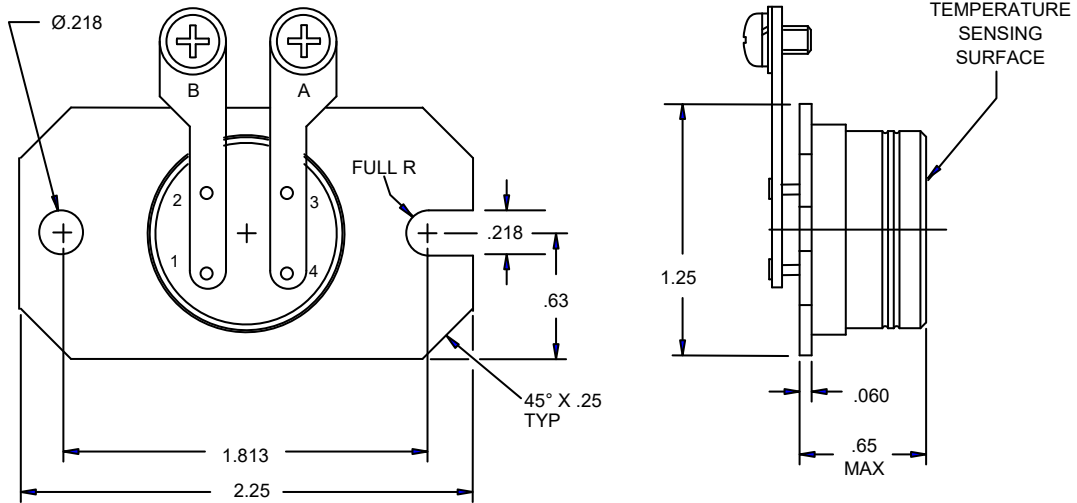
WEIGHT: 0.12 pound maximum (55 grams)



CONFIGURATION 7

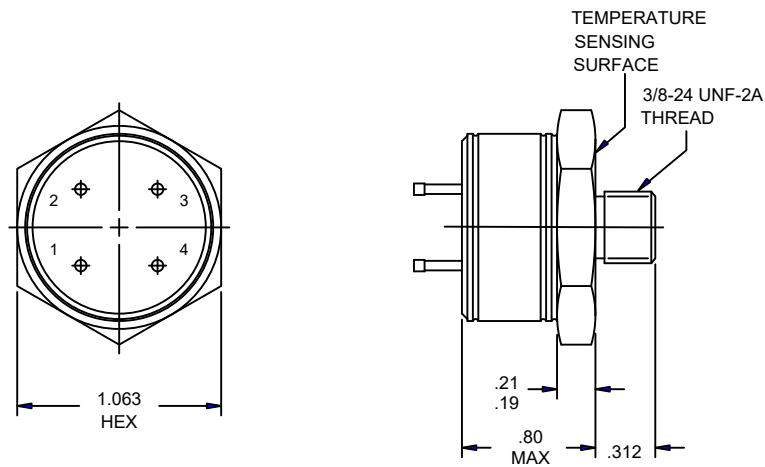
WEIGHT: 0.11 pound maximum (50 grams)

FIGURE 1. Switches – Continued



CONFIGURATION 8

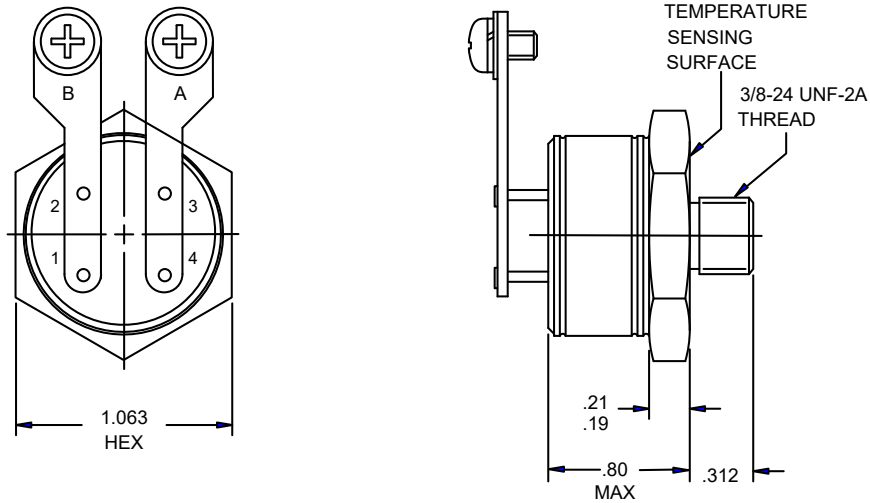
WEIGHT: 0.12 pound maximum (56 grams)



CONFIGURATION 9

WEIGHT: 0.10 pound maximum (43 grams)

FIGURE 1. Switches – Continued



CONFIGURATION 10

WEIGHT: 0.11 pound maximum (50 grams)

FIGURE 1. Switches – Continued

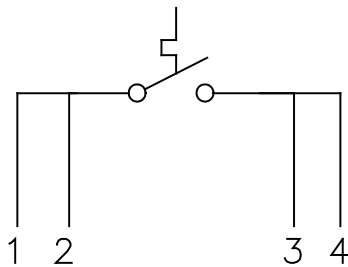


FIGURE 2. Schematic Diagram

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified tolerances are $\pm .020$

MIL-PRF-24236/29C

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, 15 G

Short circuit current: 75 Amps

Mounting: See Figure 1.

Weight: See Figure 1.

Schematic Diagram: See Figure 2

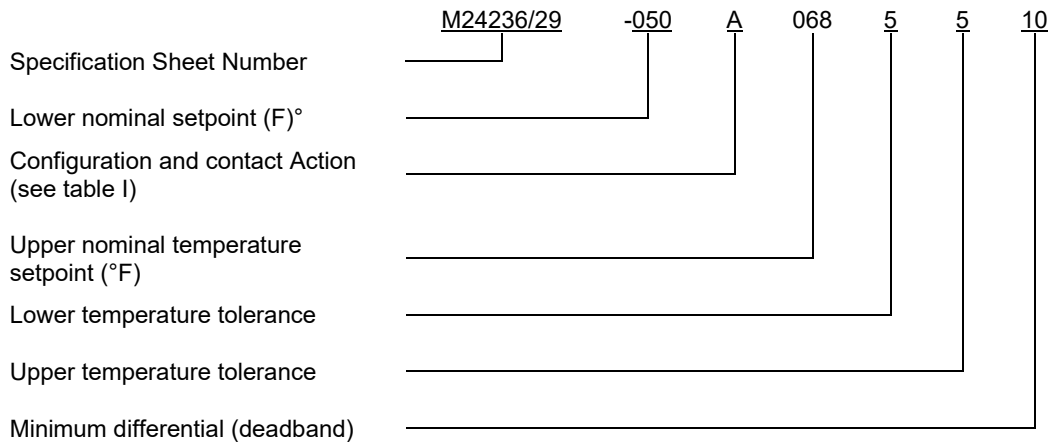
Dielectric withstanding voltage: $1,500$ VAC, 5 seconds, terminals to case.

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.

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	28 VDC	115 V, 60 Hz	75 VDC	
	(amperes)	(amperes)	(amperes)	(amperes)	
Resistive	3.0	8.0	15.0	-	100,000
Resistive	3.0	10.0	15.0	-	50,000
Inductive	-	-	-	0.75	1,000,000
Motor	-	4.5	-	-	10,000

Qualification: Not required.

Inspection of product for delivery: Inspection of product for delivery shall consist of group A and group B inspections as specified in [MIL-PRF-24236](#).

Certification: The acquiring activity, at its discretion, may accept a certificate of compliance with group B requirements in lieu of performing group B tests.

Acquisition data: In addition to that specified in MIL-PRF-24236, the acquisition documents should specify whether the manufacturer performs the group B tests or provides certification of compliance with group B requirements.

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue 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 and relationship to the previous issue.

Referenced Documents: [MIL-PRF-24236](#)

Custodians:
 Army – CR
 Navy – EC
 Air Force – 85
 DLA – CC

Preparing activity:
 DLA – CC
 (Project 5930-2023-055)

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 <https://assist.dla.mil/>.