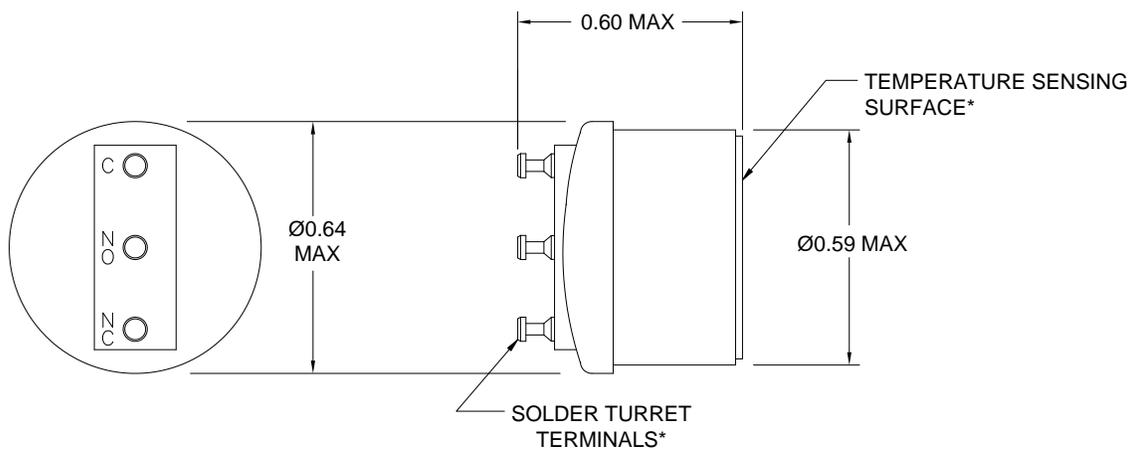


PERFORMANCE SPECIFICATION SHEET

SWITCHES, THERMOSTATIC, (BIMETALLIC), TYPE I, ENVIRONMENTALLY SEALED, SINGLE POLE DOUBLE THROW (SPDT), 5 AMPERES, AND LOW LEVEL

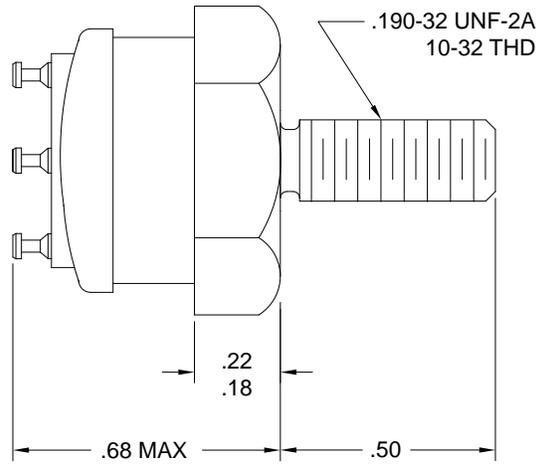
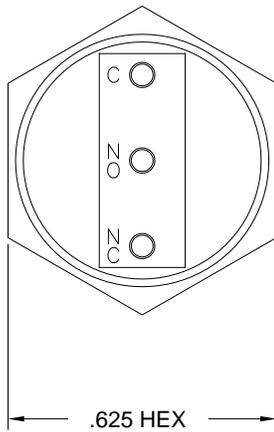
This specification is approved for use by all Departments and Agencies of the Department of Defense.

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

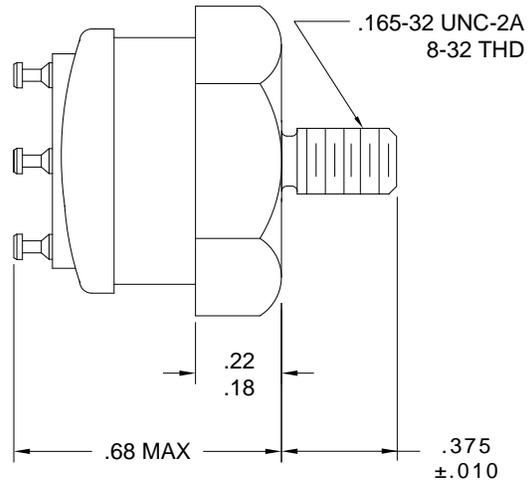
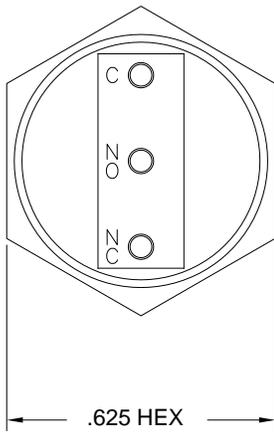


CONFIGURATION 1
WEIGHT: 8 grams maximum
* Typical all configurations

FIGURE 1. Switches, thermostatic, (bimetallic), type I, environmentally sealed, SPDT

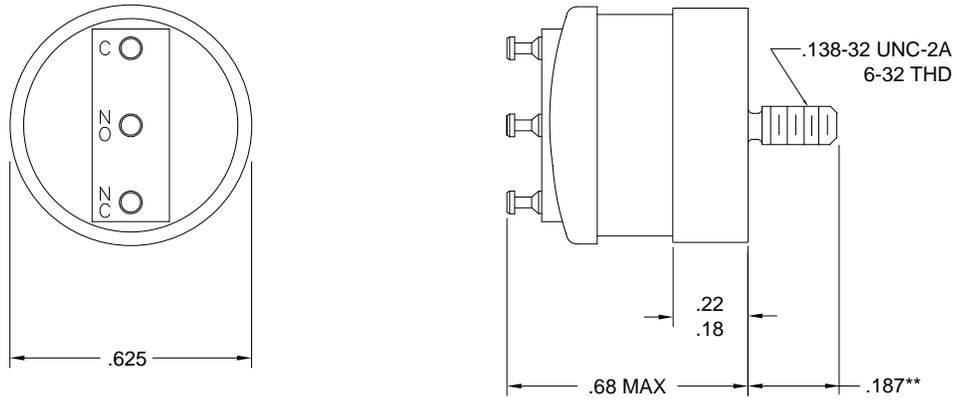


CONFIGURATION 2
WEIGHT: 14 grams maximum

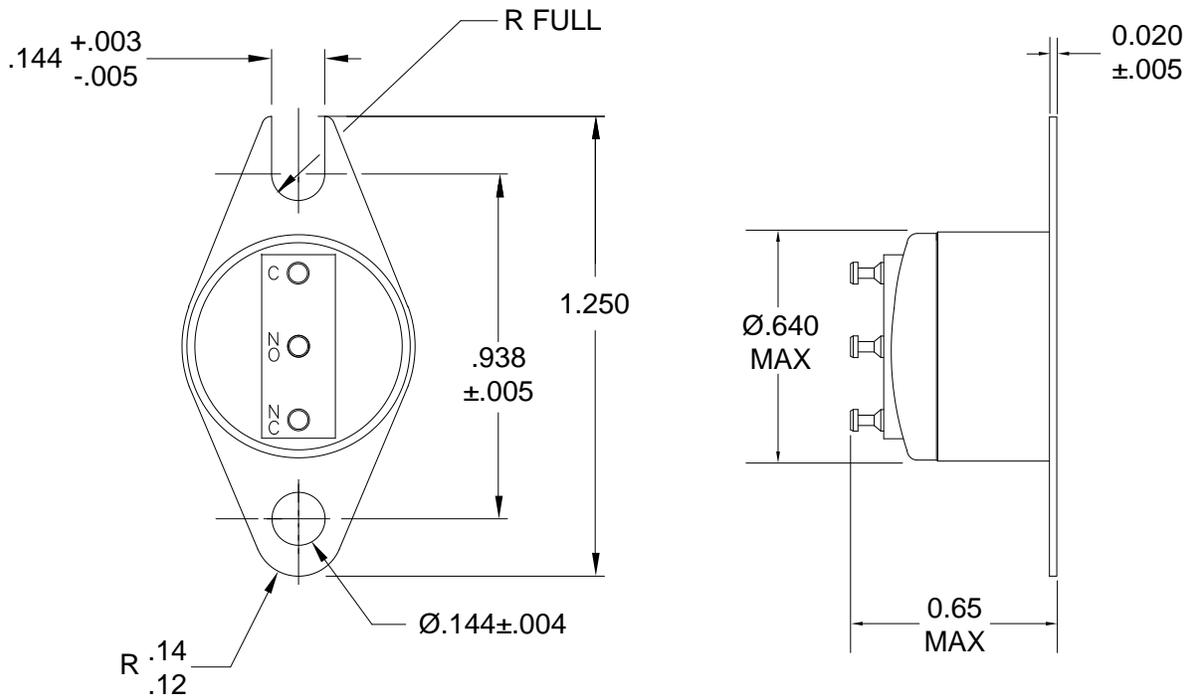


CONFIGURATION 3
WEIGHT: 12 grams maximum
** Other lengths available (consult factory)

FIGURE 1. Switches, thermostatic, (bimetallic), type I, environmentally sealed, SPDT - Continued

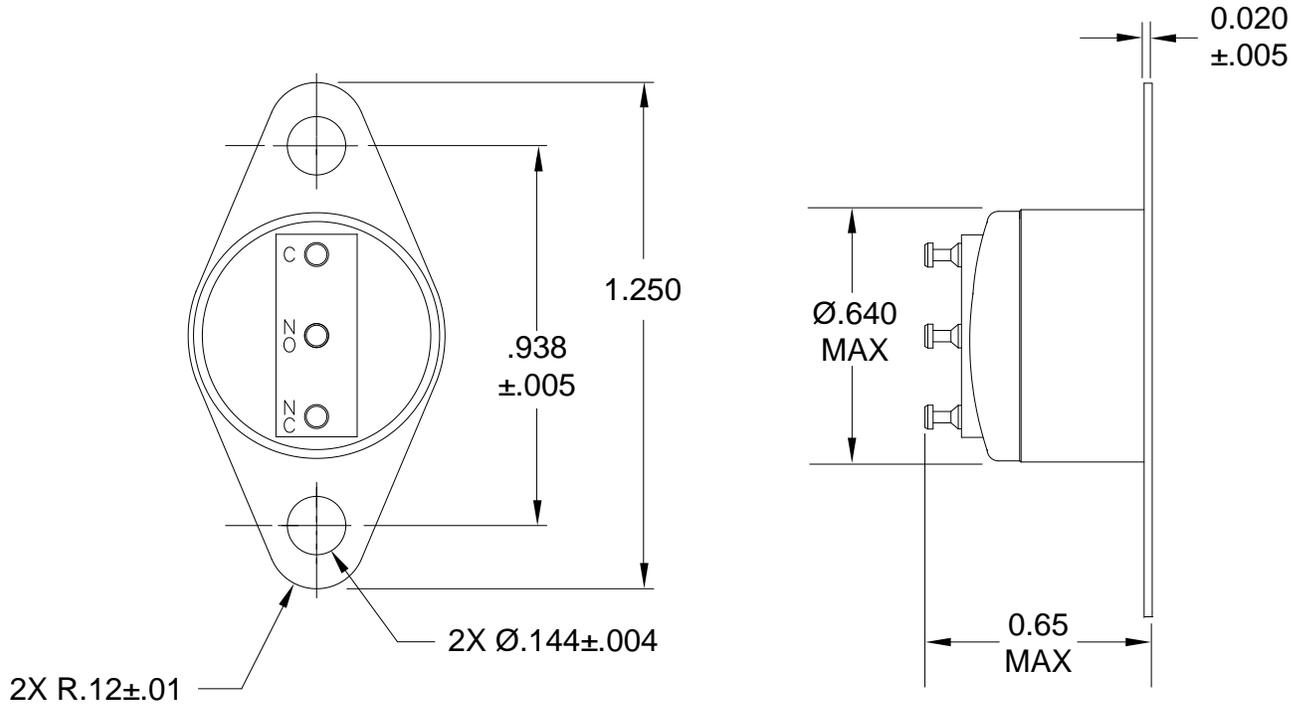


CONFIGURATION 4
 WEIGHT: 11 grams maximum
 ** Other lengths available (consult factory)

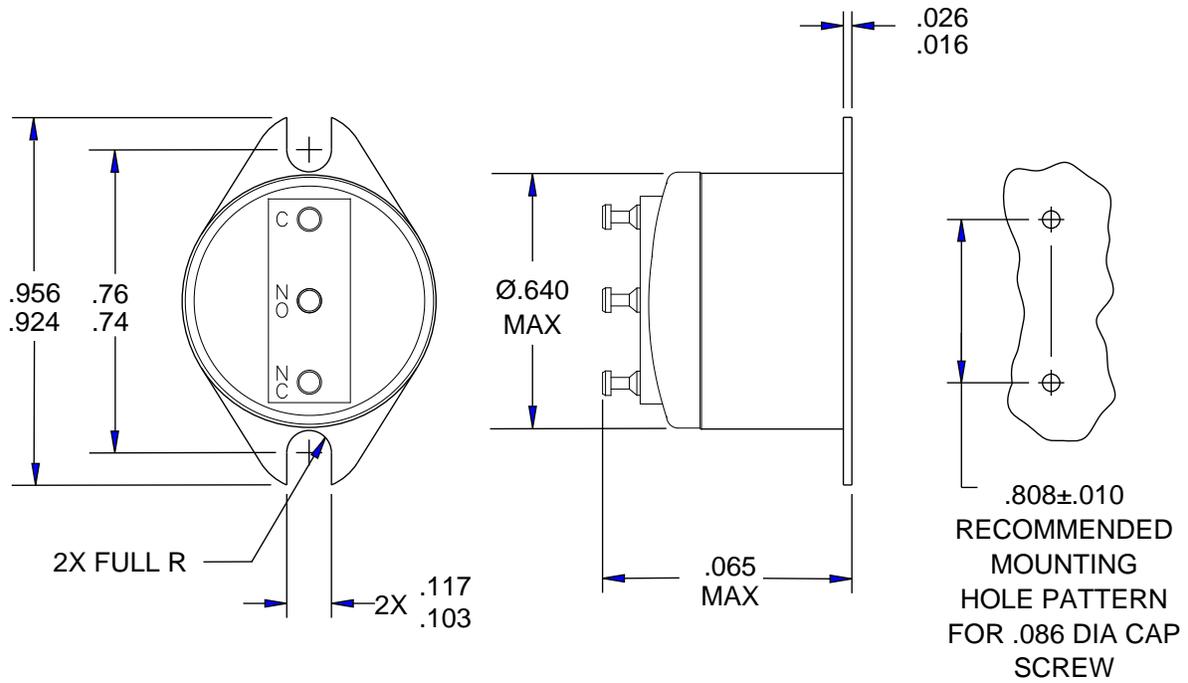


CONFIGURATION 5
 WEIGHT: 11 grams maximum

FIGURE 1. Switches, thermostatic, (bimetallic), type I, environmentally sealed, SPDT - Continued

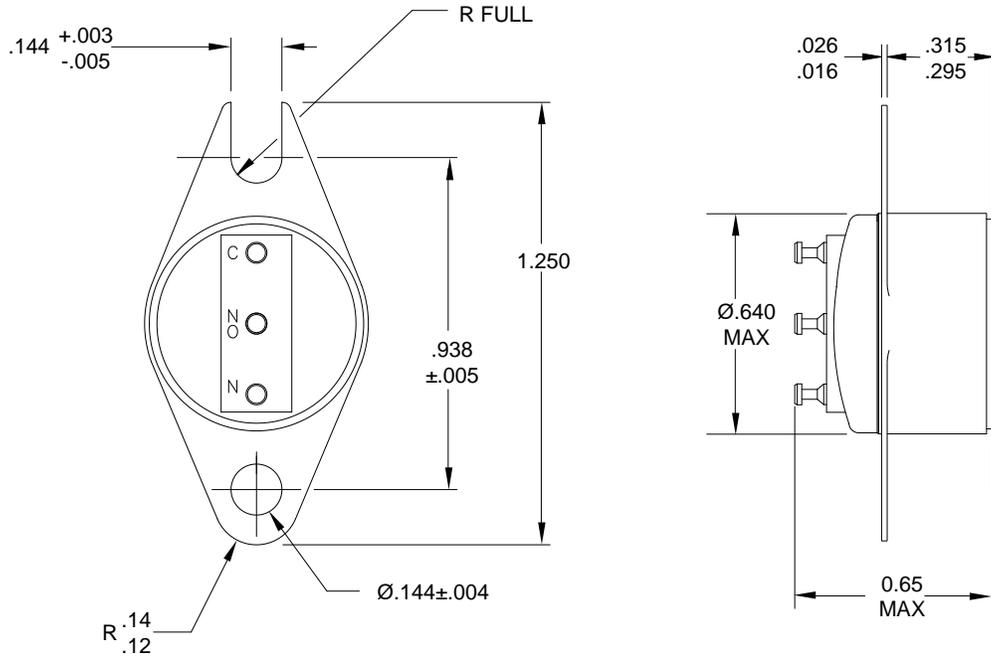


CONFIGURATION 6
WEIGHT: 11 grams maximum

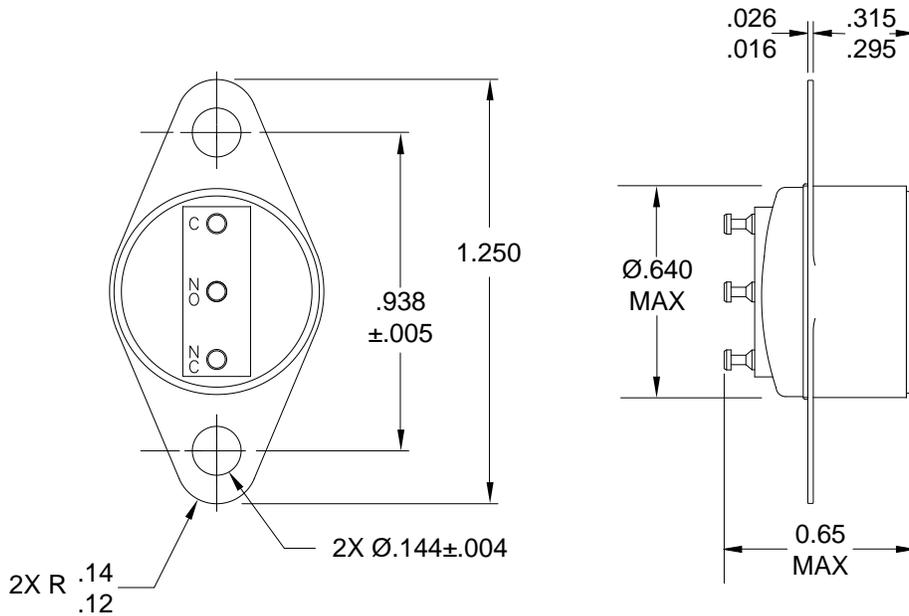


CONFIGURATION 7
WEIGHT: 10 grams maximum

FIGURE 1. Switches, thermostatic, (bimetallic), type I, environmentally sealed, SPDT - Continued

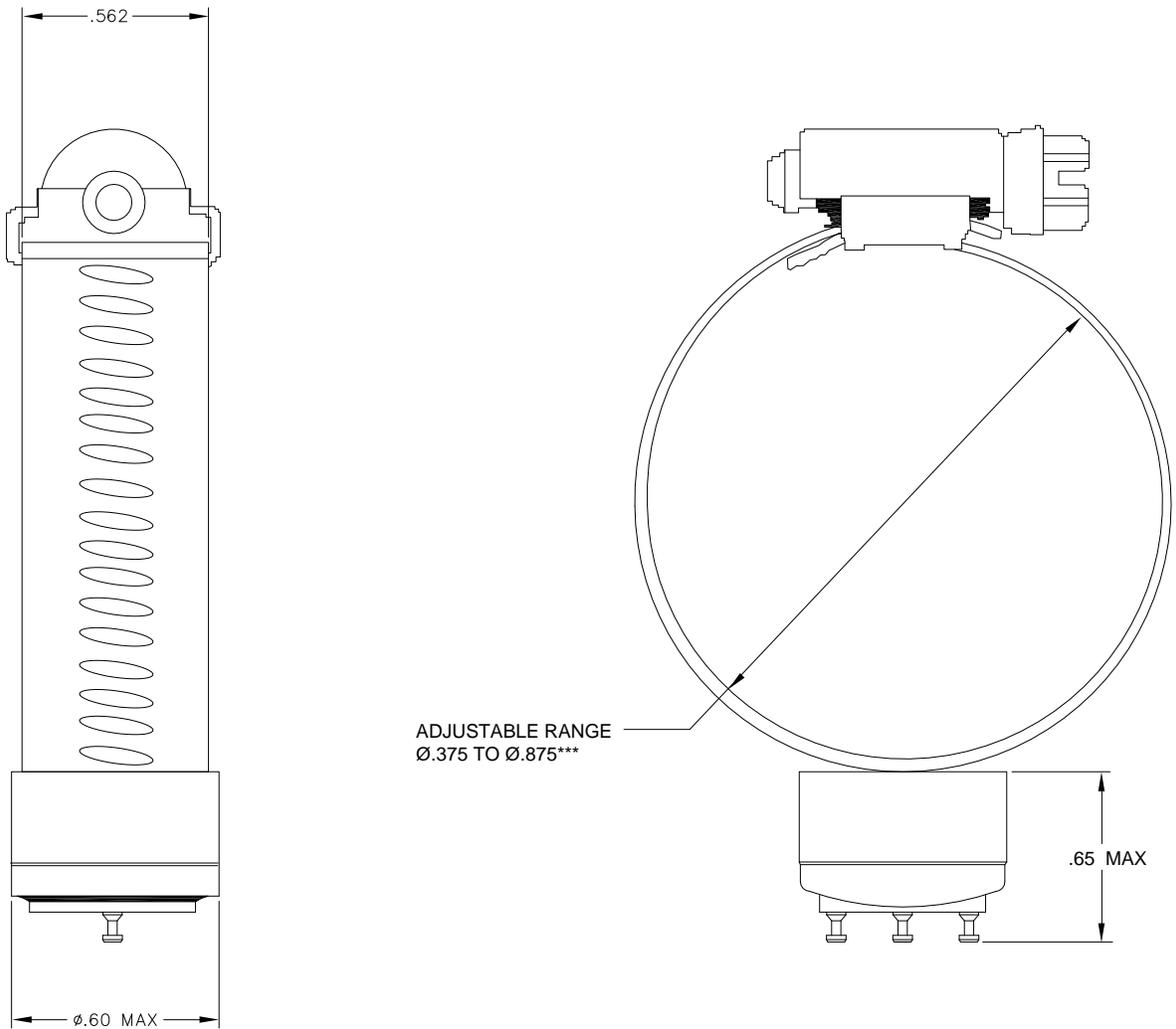


CONFIGURATION 8
WEIGHT: 11 grams maximum



CONFIGURATION 9
WEIGHT: 11 grams maximum
** Other diameters available (consult factory)

FIGURE 1. Switches, thermostatic, (bimetallic), type I, environmentally sealed, SPDT - Continued



CONFIGURATION 10
WEIGHT: 35 grams maximum
*** Other ranges available. Consult Factory

FIGURE 1. Switches, thermostatic, (bimetallic), type I, environmentally sealed, SPDT - Continued

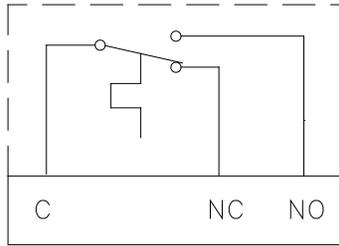


FIGURE 2. Schematic Diagram

| Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|------|--------|-------|--------|-------|
| 0.003 | 0.08 | 0.103 | 2.62 | 0.295 | 7.49 | 0.64 | 16.26 |
| 0.004 | 0.10 | 0.117 | 2.97 | 0.315 | 8.00 | 0.65 | 16.51 |
| 0.005 | 0.13 | 0.12 | 3.05 | 0.374 | 9.50 | 0.74 | 18.80 |
| 0.01 | 0.25 | 0.138 | 3.51 | 0.375 | 9.53 | 0.76 | 19.30 |
| 0.016 | 0.41 | 0.14 | 3.56 | 0.5 | 12.70 | 0.808 | 20.52 |
| 0.02 | 0.51 | 0.144 | 3.66 | 0.562 | 14.27 | 0.875 | 22.23 |
| 0.026 | 0.66 | 0.165 | 4.19 | 0.57 | 14.48 | 0.924 | 23.47 |
| 0.04 | 1.02 | 0.18 | 4.57 | 0.59 | 14.99 | 0.938 | 23.83 |
| 0.06 | 1.52 | 0.187 | 4.75 | 0.6 | 15.24 | 0.956 | 24.28 |
| 0.062 | 1.57 | 0.19 | 4.83 | 0.62 | 15.75 | 1.25 | 31.75 |
| 0.07 | 1.78 | 0.22 | 5.59 | 0.625 | 15.88 | | |

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)
4. Exact shape of switch and terminals are optional provided dimensions specified are not exceeded.

REQUIREMENTS:

Dimensions and configuration: See Figure 1 and Table I.

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

Temperature Setpoint Range: -45°F (-43°C) to $+250^\circ\text{F}$ ($+121^\circ\text{C}$).

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

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

Mounting: See Figure 1.

Weight: See Figure 1.

Schematic Diagram: See Figure 2 (Switch state shown is room temperature state of the switch determined by operating temperature and customer selection of SPST or SPDT functionality)

Hermetic enclosure: NA (switches are environmentally sealed)

Seal: NA

Moisture Resistance: NA

Salt Spray: NA (metal parts are of corrosion-resistant material or are plated to resist corrosion)

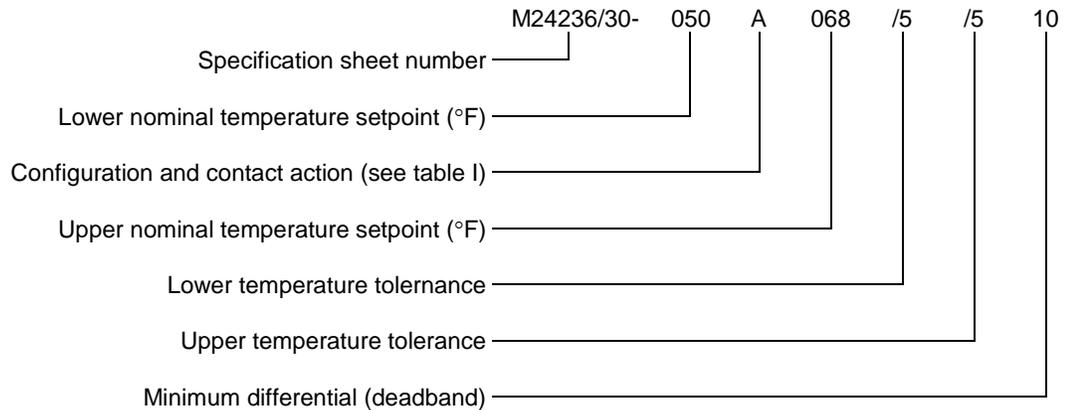
Dielectric withstanding voltage: 1500 VAC, 5 seconds, terminals to case.

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.

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

TABLE II. Electrical ratings.

| | Altitude | | | | Life cycles |
|-----------|--------------------|---------------------|---------------------------|---------------------|-------------|
| | Sea level | | | 50,000 feet | |
| | 55VDC (amperes) | 28 VDC (amperes) | 115 V, 60 Hz (amperes) | 28 VDC (amperes) | |
| Resistive | 3.0 | 5.0 | 5.0 | 4.0 | 100,000 |
| Inductive | - | 4.0 | 5.0 | 2.5 | 100,000 |
| Lamp | - | 2.5 | 2.0 | 2.5 | 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, 5.0 ampere, 100,000 cycles. Seal - NA Moisture Resistance - NA Salt Spray - NA | All |

Referenced documents: MIL-PRF-24236

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 5930-2012-041)

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/>.