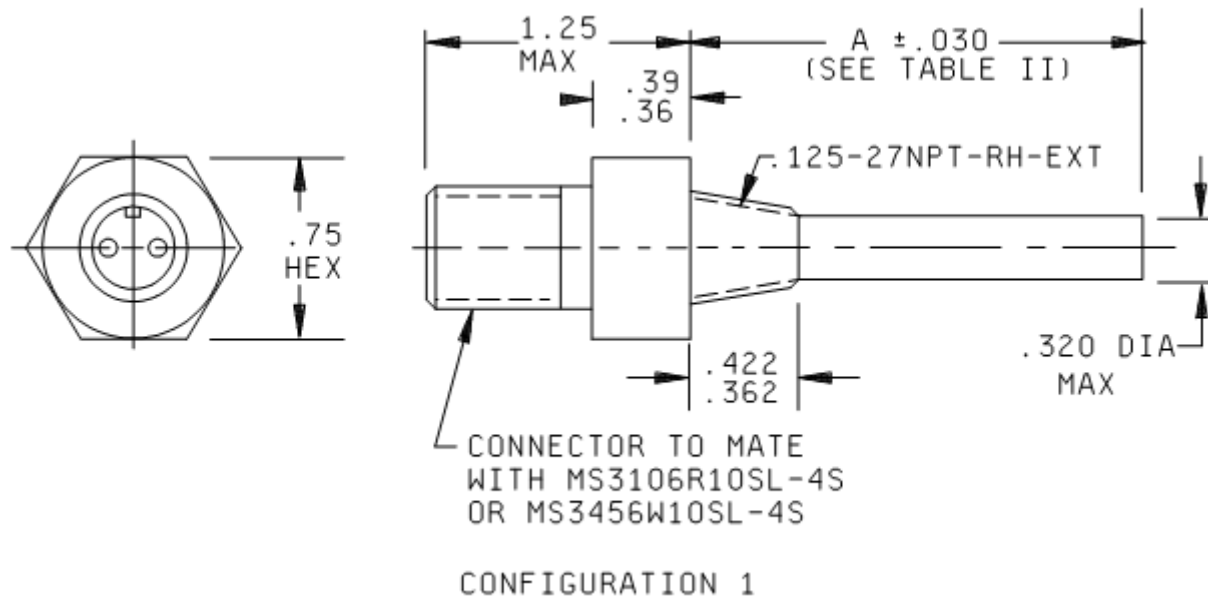


PERFORMANCE SPECIFICATION SHEET

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

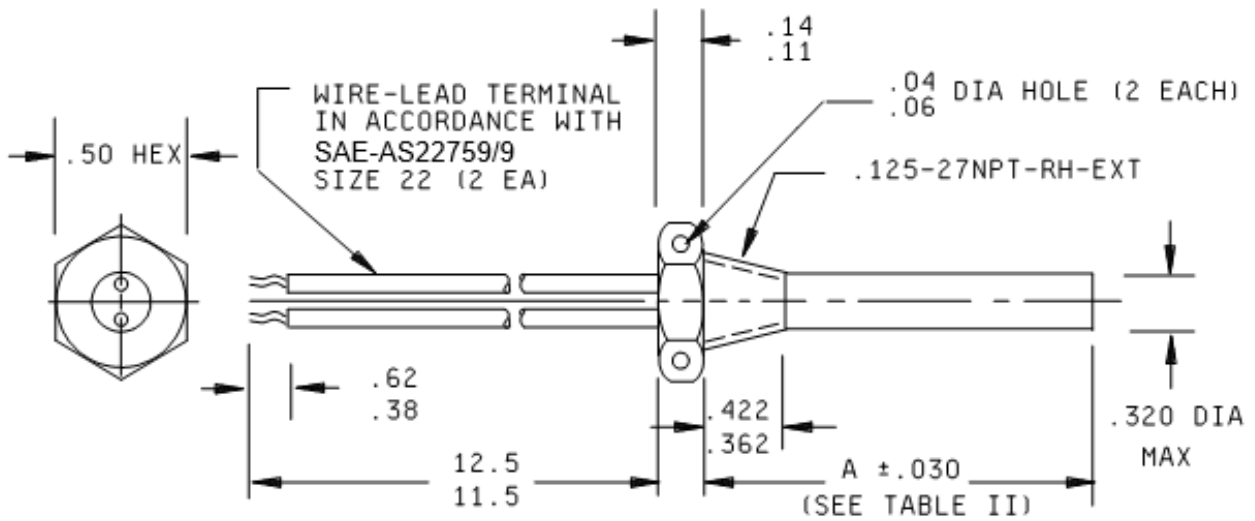
This specification is approved for use by Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet [MIL-PRF-24236](#).

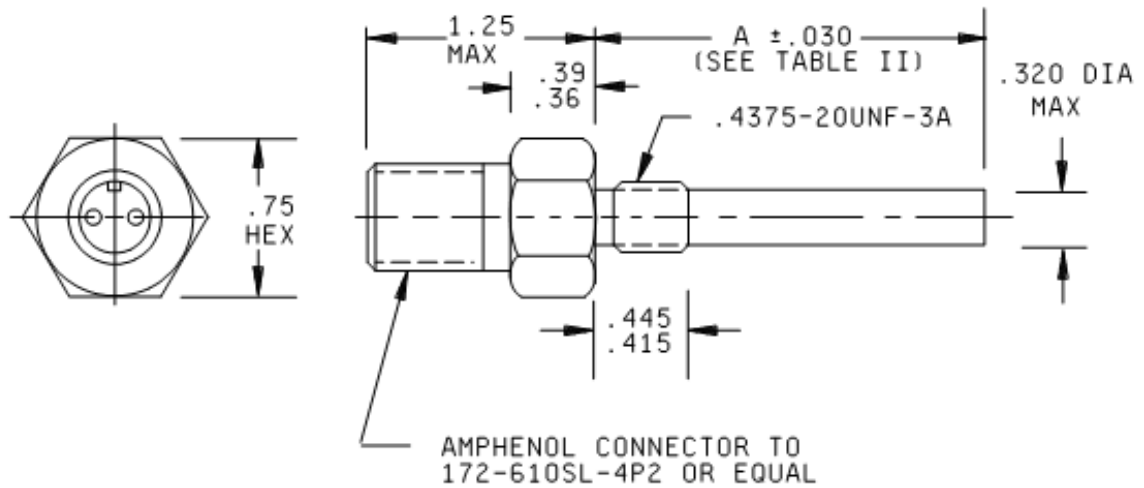


1. MS3106R10SL-4S details are found in [SAE-AS31061](#).
2. MS3456W10SL-4S details are found in [SAE-AS34561](#).

FIGURE 1. Switches.

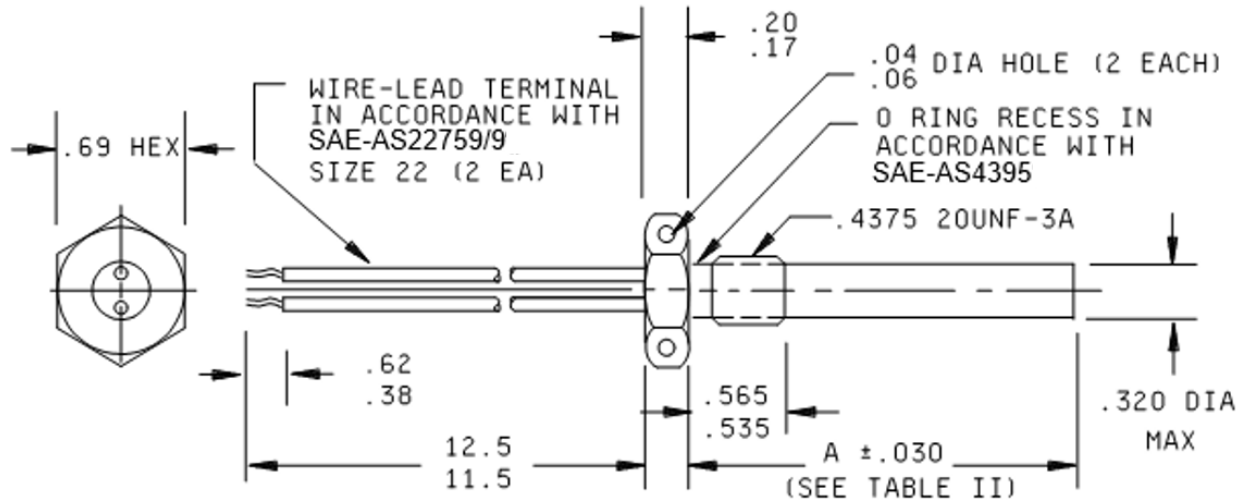


CONFIGURATION 2



CONFIGURATION 3

FIGURE 1. Switches - Continued.



CONFIGURATION 4

NOTES:

1. Dimensions are in inches.
2. MS3456R10SL-4S and MS3456W10SL-4S details are found in [SAE-AS34561](#).

FIGURE 1. Switches - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1 and tables I and II.

High temperature setting: 0°F to +350°F (see tables III and IV).

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

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

Class: 4, except vibration 5 to 2,000 Hz, 30 G.

Mounting: See figure 1.

Weight: .11 pound maximum (50 grams).

Torque:

Connector: 10 foot-pounds (configurations 1 and 3 only).

Switch mounting: 6 foot-pounds.

Initial contact resistance shall not exceed 50 milliohms; following endurance test, contact resistance shall not exceed 100 milliohms.

Electrical ratings: See table V.

Endurance: See table V.

Marking: In accordance with [MIL-PRF-24236](#).

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

EXAMPLE

	<u>M24236/11-</u>	<u>A</u>	<u>A</u>	<u>CD</u>
Specification sheet number _____				
Configuration and contact action (see table I) _____				
Probe length (see table II) _____				
High temperature setting (to nearest 25°F, table III) _____ (to nearest 5°F, table IV) _____				

The above example identifies a switch of configuration 1 which opens on increasing temperature at $55^{\circ}\text{F} \pm 8^{\circ}\text{F}$, closes on decreasing temperature at $30^{\circ}\text{F} \pm 8^{\circ}$ and has a probe length of 1.5 inches.

QUALIFICATION:

Group submission: See table VI.

TABLE I. Configuration and contact action.

	Configuration				Contact action
	1	2	3	4	
Code -----	A	C	E	G	Open on increasing temperature
Code -----	B	D	F	H	Close on increasing temperature
Code -----	A	C	E	G	Close on decreasing temperature
Code -----	B	D	F	H	Open on decreasing temperature

TABLE II. Probe length.

Code	Dimension A, figure 1 (Inches <u>1</u>)
A -----	1.5 (38.10)
B -----	2.0 (50.80)
C -----	2.5 (63.50)
D -----	3.0 (76.20)
E -----	4.0 (101.60)

1/ Metric equivalents are shown in parentheses.TABLE III. High temperature setting to the nearest 25°F.

Code	Temperature (°F)	Code	Temperature (°F)	Code	Temperature (°F)
A -----	0	F -----	125	L -----	250
B -----	25	G -----	150	M -----	275
C -----	50	H -----	175	N -----	300
D -----	75	J -----	200	P -----	325
E -----	100	K -----	225	Q -----	350

TABLE IV. High temperature setting to
the nearest 5°F.

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

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TABLE V. Electrical ratings and endurance.

Load	Altitude			Life cycles
	Sea level		70,000 feet	
	28 V (Ampere)	115 V, 60 Hz (Ampere)	28 V (Ampere)	
Resistive -----	1.0	1.0	1.0	10,000
Inductive -----	.5	.5	.5	10,000
Lamp -----	.2	.2	.2	10,000

TABLE VI. Group submission.

Configuration	Number of samples required	Tests	Extent of approval
1 and 2	3 each	Visual and mechanical examination, torque, vibration, shock, and seal	All <u>1/</u>

1/ Qualification is based upon prior approval to [MIL-PRF-24236/19](#).

Supersession data: See table VII.

TABLE VII. Supersession data.

Superseded military PIN	Superseding military PIN	Superseded military PIN	Superseding military PIN
M24236/11-01	M24236/11-ABFD	M24236/11-56	M24236/11-BBKB
-02	-AAEC	-57	-BBLA
-03	-AAFB	-58	-BBLE
-04	-AAGA	-59	-BBMD
-05	-AAGE	-60	-BBNC
-06	-AAHD	-61	-BBPB
-07	-AAJC	-62	-BBQA
-08	-AAKB	-63	-BBQE
-09	-AALA	-66	-ACEC
-10	-AALE	-67	-ACFB
-11	-AAMD	-68	-ACGA
-12	-AANC	-69	-ACGE
-13	-AATB	-70	-ACHD
-14	-AAQH	-71	-ACJC
-15	-AAQE	-72	-ACKB
-18	-BAEC	-73	-ACLA
-19	-BAFB	-74	-ACLE
-20	-BAGA	-75	-ACMD
-21	-BAGE	-76	-ACNC
-22	-BAHD	-77	-ACPB
-23	-BAJC	-78	-ACQA
-24	-BAKB	-79	-ACQE
-25	-BALA	-82	-BCEC
-26	-BALE	-83	-BCFB
-27	-BAMD	-84	-BCGA
-28	-BANC	-85	-BCGE
-29	-BATB	-86	-BCHD
-30	-BAQA	-87	-BCJC
-31	-BAQE	-88	-BCKB
-34	-ABEC	-89	-BCLA
-35	-ABFB	-90	-BCLE
-36	-ABGA	-91	-BCMD
-37	-ABGE	-92	-BCMC
-38	-ABHD	-93	-BCPB
-39	-ABJC	-94	-BCQA
-40	-ABAB	-95	-BCQE
-41	-ABLA	-98	-ADEC
-42	-ABLE	-99	-ADFB
-43	-ABND	-100	-ADGA
-44	-ABNC	-101	-ADGE
-45	-ABEB	-102	-ADHD
-46	-ABQA	-103	-ADJC
-47	-ABQE	-104	-ADKB
-50	-BBEC	-105	-ADLA
-51	-BBFB	-106	-ADLE
-52	-BBGA	-107	-ADMD
-53	-BBGE	-108	-ADNC
-54	-BBHD	-109	-ADPB
-55	-BBJC	-110	-ADQA

TABLE VII. Supersession data - Continued.

Superseded military PIN	Superseding military PIN	Superseded military PIN	Superseding military PIN
M24236/11-111	M24236/11-ADQE	M24236/11-137	M24236/11-AELA
-114	-BDEC	-138	-AELE
-115	-BDFB	-139	-AEMD
-116	-BDGA	-140	-AENC
-117	-BDGE	-141	-AEPB
-118	-BDHD	-142	-AEQA
-119	-BDJC	-143	-AEQE
-120	-BDKB	-146	-BEEC
-121	-BDLA	-147	-BEFB
-122	-BDLE	-148	-BEGA
-123	-BDMB	-149	-BEGE
-124	-BDNC	-150	-BEHD
-125	-BDED	-151	-BEJC
-126	-BDQA	-152	-BEKB
-127	-BDQE	-153	-BELA
-130	-AEEC	-154	-BELE
-131	-AEFB	-155	-BEMD
-132	-AEGA	-156	-BENC
-133	-AEGE	-157	-BEPB
-134	-AEHD	-158	-BEQA
-135	-AEJC	-159	-BEQE
-136	-AEKB		

Referenced Documents:

[MIL-PRF-24236](#)
[SAE-AS22759/9](#)

[MIL-PRF-24236/19](#)
[SAE-AS4395](#)

[SAE-AS34561](#)
[SAE-AS31061](#)

Changes from previous revision. 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.

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5930-2026-002)

Review activities:

Army - AR, AT, AV, MI
Navy - AS, MC, OS

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/>.