

INCH-POUND

MIL-S-15291/4A(SH)

22 July 1991

SUPERCEDING

MIL-S-15291/4(SH)

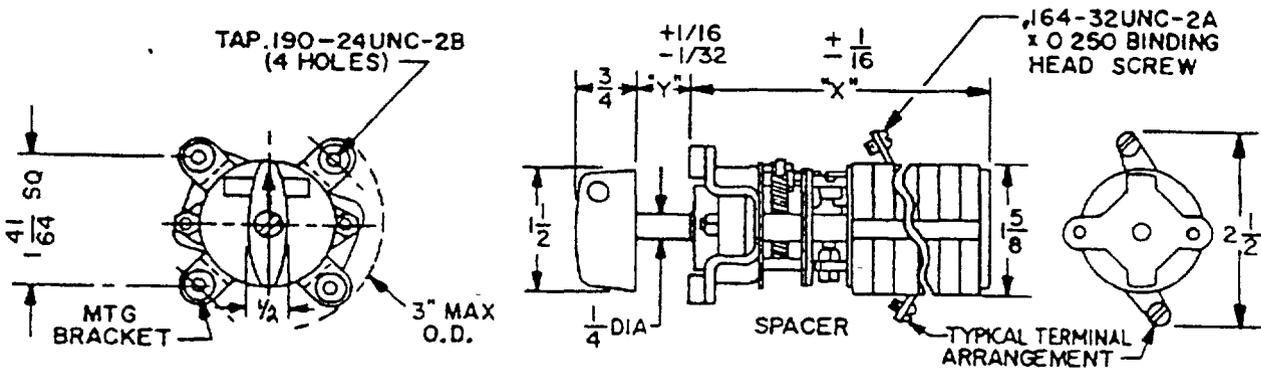
17 April 1981

MILITARY SPECIFICATION SHEET

SWITCHES, ROTARY, DETENT AND SPRING-RETURN ACTION CLASS 1SRN
FRONT MOUNTED, SIDE CONNECTED

This specification is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available 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 the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-S-15291



NOTES

- 1 Dimensions are in inches
- 2 Unless otherwise specified, tolerance is plus or minus 0 015

FIGURE 1 Class 1SRN switch, 4 positions

AMSC N/A

FSC 5930

DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

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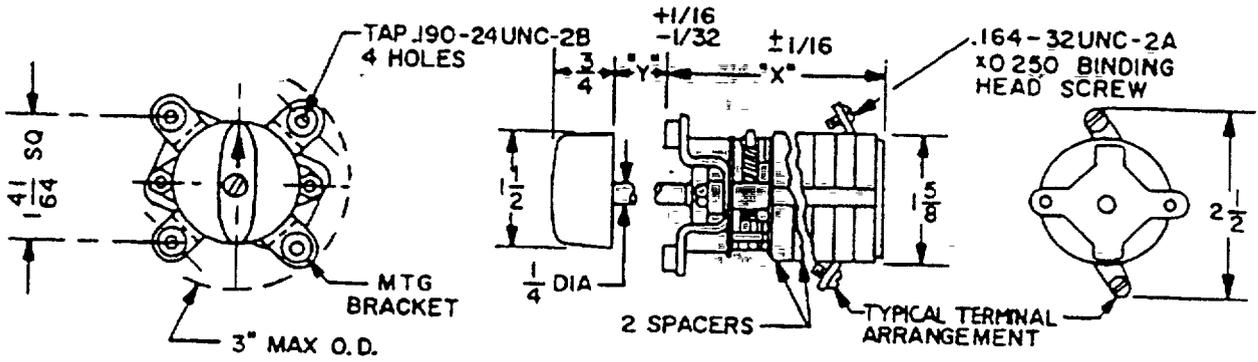


FIGURE 2 Class 1SRN switch, 3 positions

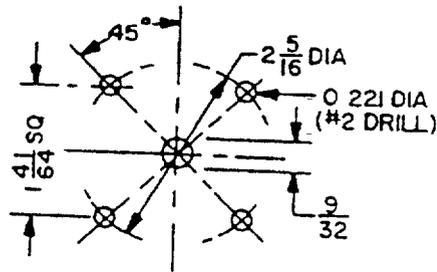
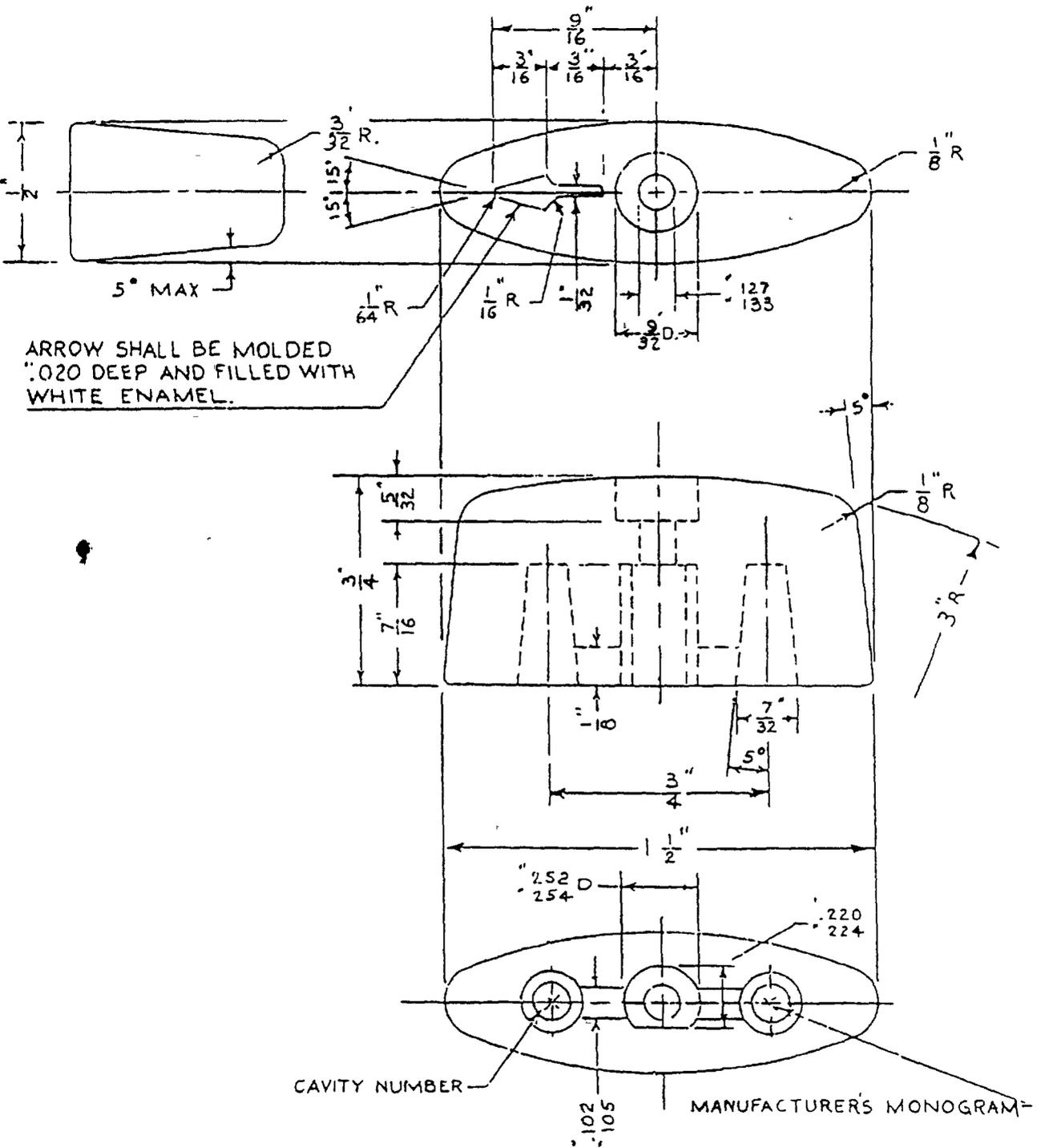
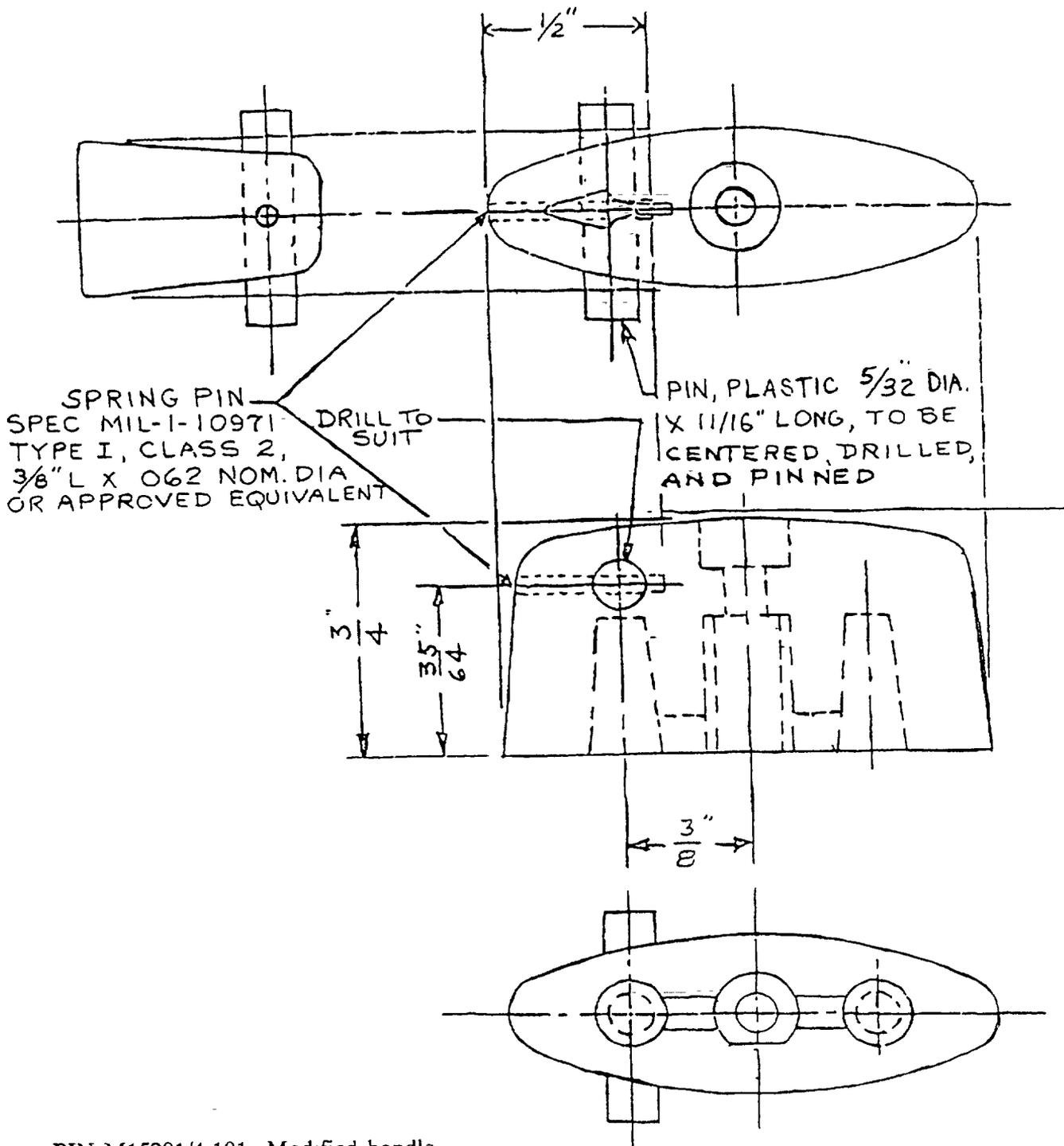


FIGURE 3 Panel drilling



PIN M15291/4-100

FIGURE 4 Handle.



PIN M15291/4-101 Modified handle
USE M15291/4-100 to modify

FIGURE 4 Handle - Continued

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REQUIREMENTS:

Applicable specification	MIL-S-15291
Dimensions and mounting	See figures 1 through 3
Electrical circuits:	See table I
Angle of throw:	90 degrees
Switching action:	Detent and spring-return, reciprocating
Electrical and endurance ratings	See table II
Stop strength (applicable to switches with stops):	50 inch-pounds
Vibration:	50 Hz, MIL-STD-167-1
Shock:	High impact, MIL-S-901
Insulation (Spacers and decks)	Glass alkyd, MAI-60 (or MAI-30) in accordance with MIL-M-14
Contact resistance:	0.02 ohms maximum
Dielectric withstanding voltage	1,250 Vrms
Insulation resistance:	200 megohms minimum
Temperature rise	50 °C maximum
Contact material	Rotor, phosphor bronze — Stationary contact, copper
Mounting screws	.190-24UNC-2A (4) length and headstyle to suit application. Screws not furnished.
Transfer time:	Not applicable

TABLE II *Electrical and endurance ratings*

Tests	Current (amperes)	Voltage (volts)	Electrical operations (number of operations) ¹	Test rate (operations per minute)	De-energized operations (number of operations)
Alternating current (rms)	10	125	20,000	30	10,000

¹For purpose of this test the switch shall be operated alternately to a detented position then to a momentary position. Action shall be single line make and break at rated load in both positions. This cycling shall be considered as two operations.

Terminal marking.

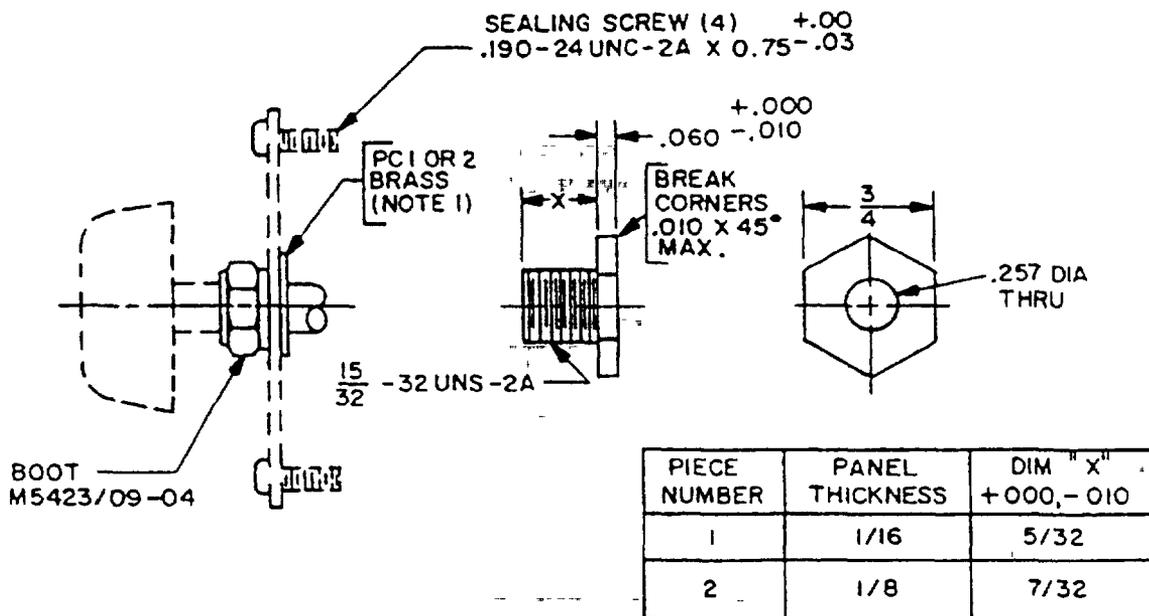
Terminal markings shown in table I locates terminals as viewed from the front of the switch (handle end). Markings shall be stamped in rear surfaces of terminals, clear of the screw heads.

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GENERAL INFORMATION:

Switches not covered by specification sheets:

Switches which are fabricated from standard parts, as used in qualified switches, but which do not comply with switches detailed herein with respect to circuit characteristics, switching action, mounting arrangement, and handle details may be acquired under this specification from contractors having qualification approval under this specification. Kits not supplied unless specified (see 6.2 of MIL-S-15291).

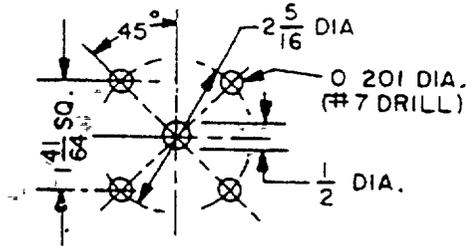


NOTE

1 Finish shall be zinc and dichromate, ASTM B 633

FIGURE 5. Dripproof mounting kit

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NOTE

- 1 Do not chamfer mounting holes Breaking 1/64 maximum permissible

FIGURE 6 Kit for panel seal mounting.

APPLICATION AND ACQUISITION GUIDE:

PIN and type designation cross reference shall be as shown in table IV.

TABLE IV. Application and acquisition guide

M15291/4 dash No	Type designation	For new or existing design	For re- placement	Circuit configuration (see table I)
-001	-	X		S
-002	-	X		S
-003	-	X		S
-004	-	X		S
-005	-	X		S
-006	-	X		S

Revision letters are not used to denote changes due to the extensiveness of the changes

Preparing activity
Navy - SH
(Project 5930-N663-5)