

INCH-POUND
MIL-DTL-21604/6C
27 March 2009
SUPERSEDING
MIL-DTL-21604/6B
27 June 2003

DETAIL SPECIFICATION SHEET

SWITCH, ASSEMBLIES FOR REMOTE OPERATED SWITCHES, 10 AMPERE,
STYLES RJR AND RJRA

INACTIVE FOR NEW DESIGN AFTER 30 MARCH 1992
FOR NEW DESIGN, USE MIL-S-24187

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

The complete requirements for acquiring the switches described herein shall consist of this specification and the latest issue of MIL-DTL-21604.

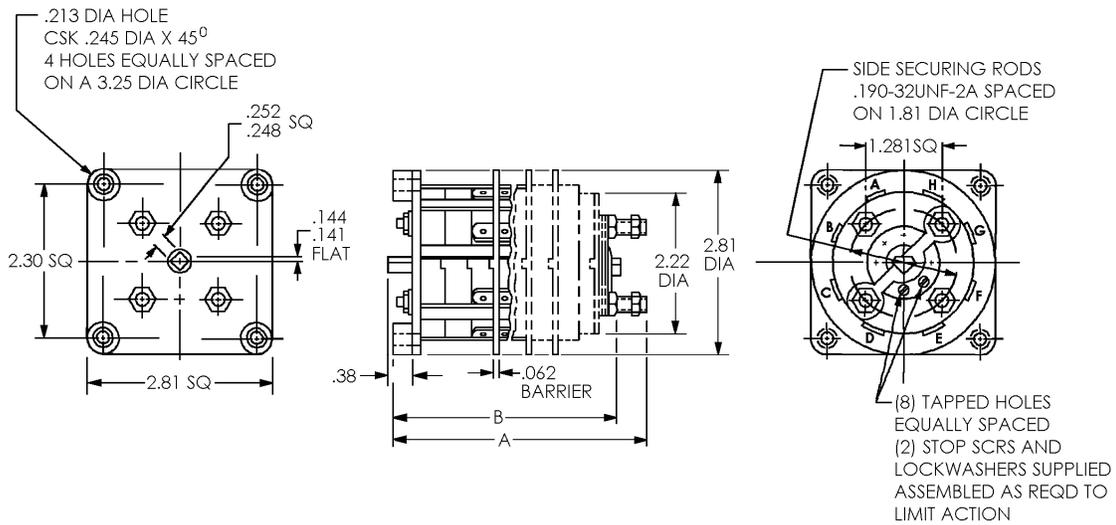
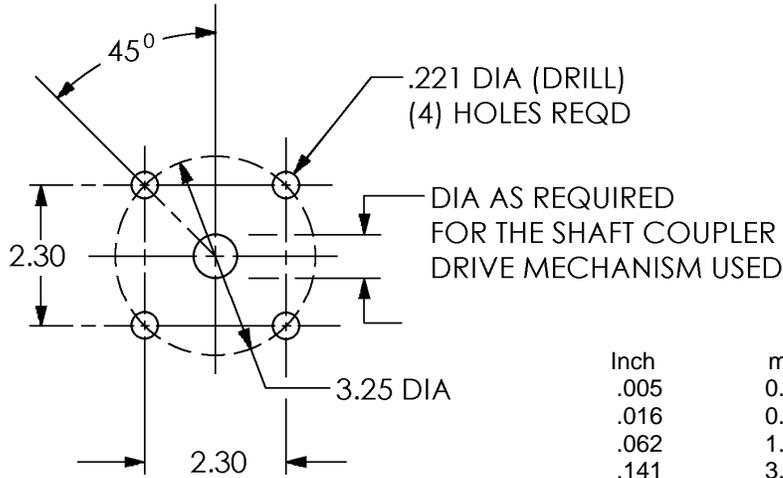
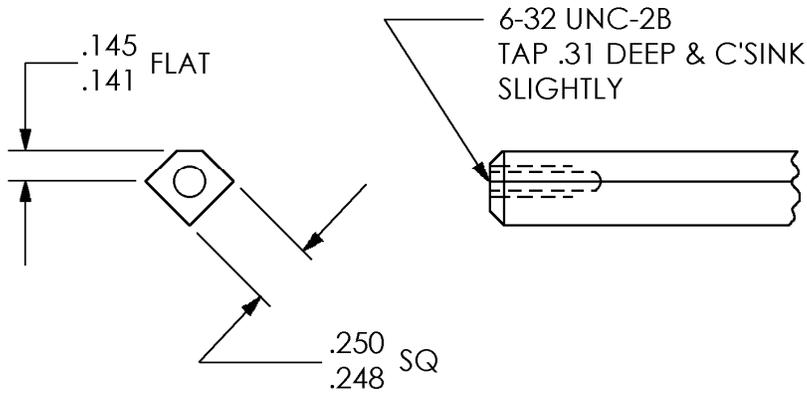


FIGURE 1. Styles RJR and RJRA switch.



PANEL MOUNTING DIMENSIONS
AND REAR SUPPORT

Inch	mm	Inch	mm
.005	0.13	.252	6.35
.016	0.41	.31	7.87
.062	1.57	.38	9.65
.141	3.58	.44	11.18
.144	3.66	1.28	32.51
.145	3.68	1.81	45.97
.190	4.83	2.22	56.39
.213	5.41	2.30	58.42
.221	5.61	2.81	71.37
.245	6.22	3.25	82.55
.248	6.30	6.0	152.4
.250	6.35		

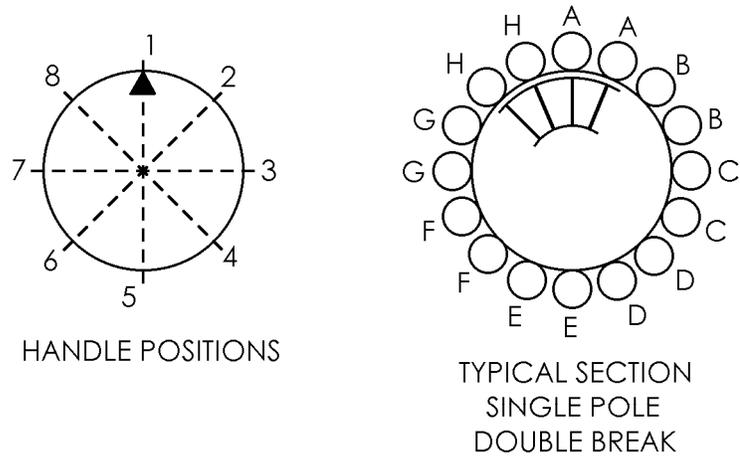


SHAFT

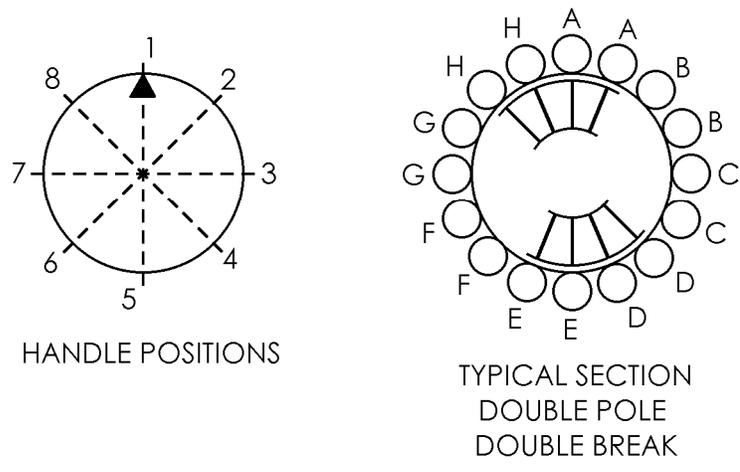
NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are $\pm .016$ (0.41 mm) for two-place decimals and ± 0.005 (0.13 mm) for three-place decimals.

FIGURE 1. Styles RJR and RJRA switch - Continued.



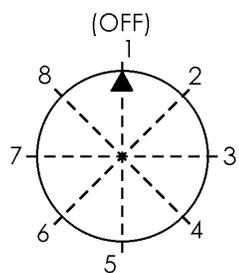
ROTOR DESIGNATION 1



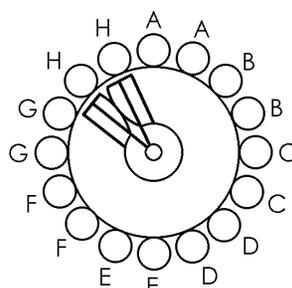
ROTOR DESIGNATION 2

NOTE: Viewed from the handle end.

FIGURE 2. Rotor contact configuration and handle positions.

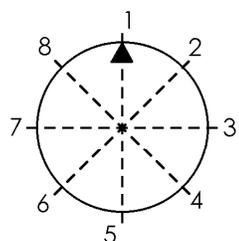


HANDLE POSITIONS

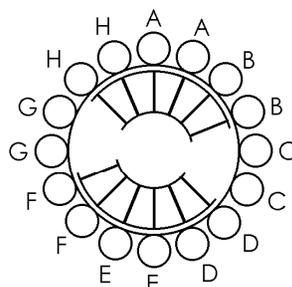


TYPICAL SECTION
SINGLE POLE
SELECTOR

ROTOR DESIGNATION



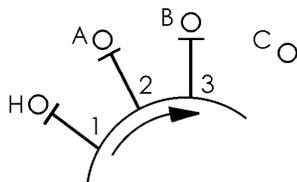
HANDLE POSITIONS



TYPICAL SECTION
DOUBLE POLE
TRIPLE BREAK

ROTOR DESIGNATION 4 ^{1/}

^{1/} WITH ROTOR CONFIGURATION 4, CONTACT H-1 BREAKS BEFORE C-3 MAKES, AND CONTACTS A-1 AND B-2 MAKE BEFORE A-2 AND B-3 BREAK



NOTE: Viewed from handle end.

FIGURE 2. Rotor contact configuration and handle positions - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1, figure 2, and table I.

Angle of throw: 45 degrees.

Switching action: Detent.

Electrical loads:

AC current: 10 amperes.

Voltage: 125 volts (at 60 - 400 Hz, 0.80 inductive power factor).

Temperature rise: 30°C maximum.

Contact material:

Rotor: Silver-overlay phosphor-bronze.

Stator: Silver-overlay copper.

Barriers: See figure 1.

Terminal marking: See figure 1.

Stop marking: See figure 1.

Qualification samples: See table II.

TABLE I. Type designation and switching characteristics.

Type designation		Style	No. of switch sections	Total number of sections including control sections	Dimensions <u>2/</u>		Approx. weight (ounces)	Maximum Rotational torque (inch-pounds)
Component	Rotor designation				A ±.06 (1.57)	B		
S	1	RJR	25	27	12.56(319.07)	12.06(306.37) +0.14 (±3.58)	66	33-40
S	2	RJR	25	27	12.56(319.07)	12.06(306.37) +0.14 (±3.58)	66	39-46
S	3	RJR	25	27	12.56(319.07)	12.06(306.37) +0.14 (±3.58)	66	34-41
S	4	RJR	25	27	12.56(319.07)	12.06(306.37) +0.14 (±3.58)	66	43-50
S	2	RJRA	26	27	12.56(319.07)	12.06(306.37) +0.14 (±3.58)	66	39-46

1/ For rotor designation, see figure 2.

2/ Dimensions are in inches. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

TABLE II. Qualification test sample.

Sample switch	Test number ^{1/}	Sample switch	Test number
S1JR25	1	S3JR25	4
S1JR25	2	S4JR25	1
S1JR25	3	S4JR25	2
S2JR25	4	S4JR25	3
S2JR25	1	S4JR25	4
S2JR25	2	S4JR25	5
S3JR25	3	S4JR25	6

^{1/} Test numbers in accordance with table II of MIL-DTL-21604.

^{2/} For group qualifications, see 4.5.1.

The margins of this specification are marked with vertical lines to indicate where modifications from this amendment 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.

Reference Documents:

MIL-DTL-21604

Custodians:

Navy - SH
DLA - CC

Preparing activity:

DLA - CC

(Project 5930-2009-009)

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/>.