DETAIL SPECIFICATION SHEET

SWITCH, RADIO FREQUENCY TRANSMISSION LINE (COAXIAL) (ELECTRICALLY OPERATED) CLASS 7

INACTIVE FOR NEW DESIGN AFTER 6 SEPTEMBER 1966

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

Requirements for acquiring the switch described herein shall consist of this specification sheet and MIL-DTL-3928.

Position 1. (De-energized or fail-safe position), C connects to NC connector.

Position 2. (Energized position), C connects to NO connector.

FIGURE 1. PIN M3928/11-01.
<table>
<thead>
<tr>
<th>Letter</th>
<th>Inches</th>
<th>Millimeters</th>
<th>Letter</th>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
</tr>
<tr>
<td>B</td>
<td>.560</td>
<td>.540</td>
<td>14.22</td>
<td>13.72</td>
<td>36.12</td>
</tr>
<tr>
<td>C</td>
<td>.110</td>
<td>.090</td>
<td>2.79</td>
<td>2.29</td>
<td>7.09</td>
</tr>
<tr>
<td>D</td>
<td>.59</td>
<td>.53</td>
<td>15.0</td>
<td>13.5</td>
<td>38.10</td>
</tr>
<tr>
<td>E</td>
<td>1.747</td>
<td>1.727</td>
<td>44.37</td>
<td>43.87</td>
<td>113.44</td>
</tr>
<tr>
<td>F</td>
<td>1.947</td>
<td>1.927</td>
<td>49.45</td>
<td>48.95</td>
<td>125.71</td>
</tr>
</tbody>
</table>

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only (1.00 inch = 2.54 mm).
3. Metric equivalents are in parentheses.
4. Corners of case may be round or square.
5. Unless otherwise specified, tolerances are ± .010 (± 0.25 mm) for three place decimals and ± .03 (± 0.8 mm) for two place decimals.

FIGURE 1. PIN M3928/11-01 - Continued.
TABLE I. Electrical and performance characteristics.

<table>
<thead>
<tr>
<th>PIN No.</th>
<th>Fig. No.</th>
<th>Housing Manual or remote</th>
<th>Sole-noid or motor</th>
<th>Fail-safe or latching</th>
<th>Frequency range DC to GHz</th>
<th>VSWR (max)</th>
<th>Insertion loss (max)</th>
<th>Isolation (min)</th>
<th>Switching time (max)</th>
<th>Position indicating circuit</th>
<th>Life cycles x 1000</th>
<th>Operating voltage nominal</th>
<th>Pickup voltage (max)</th>
<th>Dropout voltage (max)</th>
<th>Operating current (max)</th>
<th>Holding current fail-safe type (max)</th>
<th>Power and indicator connector</th>
<th>Weight (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3928/11</td>
<td>-01 N</td>
<td>1</td>
<td>O</td>
<td>R</td>
<td>S</td>
<td>F</td>
<td>0.4</td>
<td>1.5:1</td>
<td>0.35</td>
<td>40</td>
<td>10</td>
<td>None</td>
<td>250 3/</td>
<td>28 V dc $^4/$</td>
<td>18 V dc</td>
<td>14 V dc</td>
<td>0.3</td>
<td>(A)</td>
</tr>
</tbody>
</table>

1/ At nominal operating voltage and 20° C.

2/ Mass in grams in parentheses.

3/ 25,000 cycles under 25 watts RF power, the remainder with no load.

4/ Pulsating dc, 120 Hz ripple (full wave rectified 60 Hz ac).
MIL-DTL-3928/11D

REQUIREMENTS:

Dimensions and configuration: See figure 1.

RF connectors: Female connectors shall mate with type BNC male connectors in accordance with MIL-PRF-39012/16.

Nominal impedance: 50 ohms.

Termination: Open.

RF power handling capability (average): 100 watts.

Electrical and performance characteristics: See table I.

Vibration: Method I.

Operating temperature: -55 °C to +85 °C.

Part or Identifying Number (PIN): M3928/11- 01N.

<table>
<thead>
<tr>
<th>PIN M3928/11-</th>
<th>Type SA-/U</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>1501</td>
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</tbody>
</table>

Registered documents: In addition to MIL-DTL-3928, this document references the following:
MIL-PRF-39012/16

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians: Preparing activity:
Army - CR DLA - CC
Navy - EC
Air Force - 85 (Project 5985-2011-006)
DLA - CC

Review activities:
Army - MI
Navy - AS, MC, OS, SH
Air Force - 19, 99

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.daps.dla.mil.