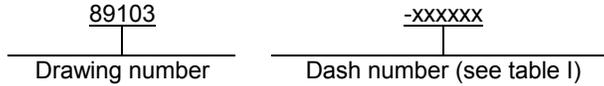




1. SCOPE

1.1 Scope. This drawing describes the requirements for a rotary switch supplied to the requirements of MIL-DTL-3786/39, except as noted herein.

1.2 Part or Identifying Number (PIN). The complete PIN shall be as shown in the following example:



2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

DEPARTMENT OF DEFENSE

- MIL-DTL-3786 - Switches, Rotary (Circuit Selector, Low Current Capacity), General Specification for.
- MIL-DTL-3786/39 - Switch, Rotary, Closed Construction, Explosion Proof, 400 Milliampere, Style SR39.

STANDARDS

DEPARTMENT OF DEFENSE

- MIL-STD-1285 - Marking of Electrical and Electronic Parts.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Defense Automation and Production Service, Building 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with MIL-DTL-3786/39 and as specified herein.

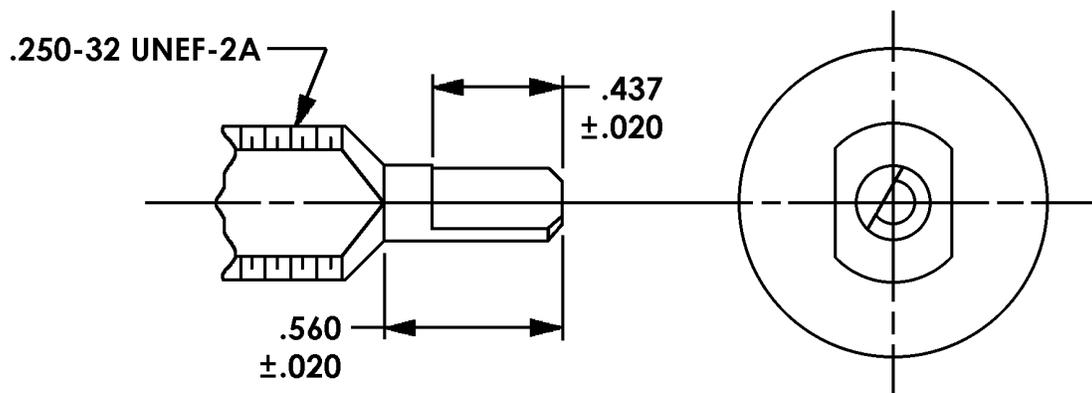
3.2 Interface and physical dimensions. The interface and physical dimensions shall be as specified in MIL-DTL-3786, MIL-DTL-3786/39, and herein (see figure 1).

3.3 Shaft length. Shaft length shall be as specified in MIL-DTL-3786/39 and herein (see table I).

<b>DEFENSE SUPPLY CENTER, COLUMBUS</b>	SIZE	CODE IDENT NO.	DWG NO.
<b>COLUMBUS, OHIO</b>	<b>A</b>	<b>14933</b>	<b>89103</b>
		REV B	PAGE 2

TABLE I. PIN.

PIN 89103-	Prior to modification	Modified shaft length
2BA560	M3786/39-2BA	.560 ± .020
2BF560	M3786/39-2BF	.560 ± .020
2CA560	M3786/39-2CA	.560 ± .020
2CF560	M3786/39-2CF	.560 ± .020
2DA560	M3786/39-2DA	.560 ± .020
2DF560	M3786/39-2DF	.560 ± .020
2HA560	M3786/39-2HA	.560 ± .020
2HF560	M3786/39-2HF	.560 ± .020
3QG560	M3786/39-3QG	.560 ± .020



Inches	mm
.020	0.51
.437	11.09
.560	14.22

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Shaft configuration.

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3.4 Marking. Marking shall be in accordance with MIL-STD-1285, except the switch shall be marked with the PIN as specified herein (see 1.2), the manufacturer's name or Commercial and Government Entity (CAGE) code, and date lot codes.

3.5 Conformance inspection. Conformance inspection shall be in accordance with 4.2 herein.

3.6 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be a suggested source of supply.

3.7 Workmanship. The switch shall be uniform in quality and free from any defects that will affect life, serviceability, or appearance.

#### 4. VERIFICATION

4.1 Sampling and inspection. Unless otherwise specified, sampling and inspection procedures shall be performed in accordance with MIL-DTL-3786.

4.2 Conformance inspection. Conformance inspection shall be in accordance with groups A and B listing of MIL-DTL-3786. Groups A and B testing shall be performed on each inspection lot and manufacturers shall keep lot records for 3 years (minimum), monitor for compliance to the prescribed procedures, and observe that satisfactory manufacturing conditions and records on lots are maintained for these switches.

4.2.1 Groups A and B inspection. Groups A and B inspection shall consist of all the tests specified in MIL-DTL-3786.

#### 5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

#### 6. NOTES

(This section contains information of a general or explanatory nature which may be helpful, but is not mandatory.)

6.1 Intended use. Switches conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. This drawing is intended exclusively to prevent the proliferation of unnecessary duplicate specifications, drawing, and stock catalog listings. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-3786, this drawing will become inactive for new design. The QPL-3786 product shall be the preferred item for all applications.

6.2 Ordering data. The contract or purchase order should specify the following:

- a. Complete PIN (see 1.2).
- b. Requirements for delivery of one copy of the conformance inspection data or certificate of compliance that parts have passed conformance inspection with each shipment of parts by the manufacturer.
- c. Requirements for packaging and packing.

6.3 Users of record. Coordination of this document for future revisions are coordinated only with the suggested sources of supply and the users of record of this document. Requests to be added as a recorded user of this drawing should be in writing to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-0551 or DSN 850-0551.

<b>DEFENSE SUPPLY CENTER, COLUMBUS</b> <b>COLUMBUS, OHIO</b>	<b>SIZE</b> <b>A</b>	<b>CODE IDENT NO.</b> <b>14933</b>	<b>DWG NO.</b> <b>89103</b>
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6.4 Suggested sources of supply. Suggested sources of supply are listed herein. Additional sources will be added as they become available. For assistance in the use of this drawing, contact Defense Supply Center, Columbus, ATTN: DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-0551 or DSN 850-0551.

DSCC drawing PIN 89103	Vendor similar designation or type number <u>1/</u>	Vendor CAGE	Vendor name and address
2BA560 2BF560 2CA560 2CF560 2DA560 2DF560 2HA560 2HF560 3QG560	3900-4861-2BF  3900-4861-2CF  3900-4861-2DF  3900-4861-2HF 3900-4861-3QG	31946	Cole Instrument Corporation 2650 South Croddy Way P. O. Box 25063 Santa Ana, CA 92799-5063 Phone: (714) 556-3100 Fax: (714) 241-9061 Email: switch@earthlink.net
2BA560 2BF560 2CA560 2CF560 2DA560 2DF560 2HA560 2HF560 3QG560	71MY233961 71MY234021 71MY233962 71MY234022 71MY233963 71MY234023 71MY233964 71MY234024 71MY234025	81073	Grayhill, Incorporated 561 Hillgrove Avenue La Grange, IL 60525-5997 Phone: (708) 354-1040 Fax: (708) 354-2820

1/ CAUTION: Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

<b>DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO</b>	<b>SIZE A</b>	<b>CODE IDENT NO. 14933</b>	<b>DWG NO. 89103</b>
		<b>REV B</b>	<b>PAGE 5</b>