

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Add one source of supply. Cage code 31946.	10 Apr 1996	David Moore
B	Inactive for new design. Editorial changes throughout.	19-Nov-02	Kendall A. Cottongim

Inactive for new design

PREVIOUS CAGE CODE 14933 SUPERSEDED BY 037Z3

THE ORIGINAL FIRST PAGE OF THIS DRAWING HAS BEEN REPLACED.

Prepared in accordance with ASME Y14.100

Selected item drawing

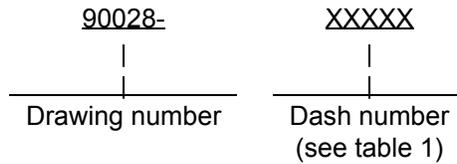
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	PAGES		1	2	3	4	5														

PMIC N/A	PREPARED BY Charles R. De Vaul	DEFENSE ELECTRONIC SUPPLY CENTER, DAYTON, OHIO
Original date of drawing 28 March 1990	CHECKED BY Richard A. Gosciniak	TITLE SWITCH, ROTARY, STYLE 35, MODIFIED SHAFT, .200 AMPERE
	APPROVED BY Randy Larson	
	SIZE A	CODE IDENT. NO. 14933
	DWG NO. 90028	
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1. SCOPE

1.1 Scope. This drawing describes the requirements for a rotary switch supplied to the requirements of MIL-DTL-3786/35, 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 and standards. The following specifications and standards 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-3786/35 - Switch, Rotary, Closed Construction, Explosion Proof, .200 Ampere, Style SR35.

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

2.2 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-3786/35, and as specified herein.

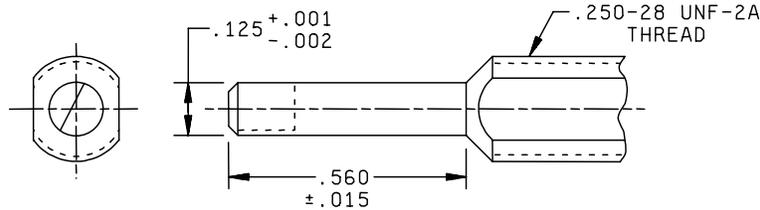
3.2 Interface and physical dimensions. The switch shall meet the interface and physical dimensions as specified in MIL-DTL-3786, MIL-DTL-3786/35 and herein.

3.3 Shaft length. Shaft length shall be as specified herein (see table I).

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TABLE I. Part numbers.

90028-	Prior to modification	Modified shaft length
013560	M3786/35-013	.560 ± .015



NOTES:

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

FIGURE 1. Shaft configuration.

3.4 Contact resistance. Contact resistance shall meet the low level circuit requirements of MIL-DTL-3786 except contact resistance shall not exceed 20 milliohms.

3.5 EMI/RFI shielding. EMI/RFI shielding shall be as specified in MIL-DTL-3786.

3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply (see 6.8).

3.7 Marking. Marking shall be in accordance with MIL-DTL-3786 except the part number shall be as specified in 1.2 herein.

3.8 Quality assurance requirements. Switches furnished under this drawing shall have been subjected to, and passed all the requirements, tests, and inspections as specified herein including conformance inspection requirements.

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

3.9 Certification as an approved source of supply. In order to be listed as an approved source of supply (see 6.8) for switches manufactured to this drawing, a manufacturer shall:

- a. Agree to make available to DSCC, upon request, all pertinent test data on its production of the subject part, including, but not limited to, test data in accordance with the qualification inspection table of MIL-DTL-3786.
- b. Provide to DSCC-VAT or its designated agent, upon request, free of charge and without obligation, a current production sample from its production of the subject part.

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c. Meet one of the following criteria:

- (1) Currently possess listing on qualified product list QPL-3786 for at least one part.
- (2) Be in current production of the subject part.

3.10 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection procedures shall be 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 inspections. Groups A and B inspections shall consist of all test 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 materiel 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 Departments 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 that may be helpful, but is not mandatory.)

6.1 Notes. Only definitions of the notes specified in MIL-DTL-3786 shall apply to this drawing.

6.2 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, drawings, and stock catalog listings. When a military specification exists and the product covered by this drawing has been qualified for a listing on QPL-3786, this drawing will become inactive for new design. The QPL-3786 product shall be the preferred item for all applications.

6.3 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 that parts have passed conformance inspection, with each shipment of parts by the manufacturer.

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c. Issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1).

d. Requirements for packaging and packing.

6.4 Replaceability. Switches covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.5 Comments. Comments on this drawing should be directed to DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-0551.

6.6 Submission of certificate of compliance. The certificate of compliance submitted to DSCC-VAT, prior to listing as an approved source, shall state the manufacturer's product meets the requirements herein.

6.7 Users of record. Coordination of this document for future revisions is 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: DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-0551 or DSN 850-0551.

6.8 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 DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-0551 or DSN 850-0551.

DSCC drawing PIN	Vendor similar part number ^{1/}	Vendor CAGE	Vendor name and address
90028-013560	51MY23698	81073	Cole Instrument 2650 Croddy Way P.O. Box 25063 Santa Ana, CA 92799-5063
	1830-4646	31946	Grayhill 561 Hillgrove Avenue Lagrange, IL 60525-5997

^{1/} Parts must be purchased to this DSCC PIN to assure that all performance requirements and tests are met.

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