## SERIES 71

## .5-.75" Diameter, 1/4 Amp

## FEATURES

- Performance and Value Leader
- Molded-In Position Terminals
- Choice of Shaft/Bushing Diameters
- $30^{\circ}$ and $36^{\circ}$ Angles of Throw
- Military Qualified MIL-DTL-3786/39


DIMENSIONS: Standard and Military In inches (and millimeters)
0.125" Diameter Shaft-Styles A and MA (and sealed versions)

0.250" Diameter Shaft-Styles B and MB (and sealed versions)


| No. of <br> Decks | Dimension <br> A | Dimension <br> B | Approx. <br> Weight <br> Grams | No. of <br> Decks | Dimension <br> A | Dimension <br> B | Approx. <br> Weight <br> Grams |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | $.761(19,33)$ | $.031(0,79)$ | 14 | 7 | $2.349(59,66)$ | $.312(7,92)$ | 26 |
| 2 | $.979(24,87)$ | $.031(0,79)$ | 16 | 8 | $2.567(65,20)$ | $.312(7,92)$ | 28 |
| 3 | $1.197(30,40)$ | $.031(0,79)$ | 18 | 9 | $2.785(70,74)$ | $.312(7,92)$ | 30 |
| 4 | $1.415(35,94)$ | $.031(0,79)$ | 20 | 10 | $3.003(76,28)$ | $.312(7,92)$ | 32 |
| 5 | $1.633(41,48)$ | $.031(0,79)$ | 22 | 11 | $3.221(81,81)$ | $.312(7,92)$ | 34 |
| 6 | $2.131(54,13)$ | $.312(7,92)$ | 24 | 12 | $3.439(87,35)$ | $.312(7,92)$ | 36 |

Angle C is $15^{\circ}$ in 12 position switches and $36^{\circ}$ in 10 position switches.
Grayhill part number and date code marked on detent cover label. Customer part number marked on request. Military part number marked when required.

Rear Views-Style A, B, MA, MB (and sealed versions)
$30^{\circ}$ and $36^{\circ}$ Angle of Throw may be interposed on either shaft diameter
$30^{\circ}$ Angle of Throw - SEE DETAIL

$36^{\circ}$ Angle of Throw


Note: Common location for a single pole per deck switch. For common location on multipole switches see circuit diagrams

## Terminal Detail



DIMENSIONS: Metric All dimensions are in millimeters


CIRCUIT DIAGRAMS: Standard, Military and Metric
Switch is Viewed From Shaft End and Shown in Position No. 1.
Note: All common terminals are located above base terminals as shown.


## SERIES 71

## 5-.75" Diameter, 1/4 Amp, PC Mount

## FEATURES

- Terminals From One Side
- Minimum Board Footprint
- Choice of Shaft/Bushing Diameters
- $30^{\circ}$ and $36^{\circ}$ Angles of Throw

- Military Qualified MIL-DTL-3786/39

DIMENSIONS: Standard and Military In inches (and millimeters)

### 0.125" Diameter Shaft: Styles AF and MAF (and sealed versions)


0.250" Diameter Shaft: Styles BF and MBF (and sealed versions)


Rear Views: Styles AF, BF, MAF, MBF (and sealed versions)
$30^{\circ}$ and $36^{\circ}$ Angle of Throw may be interposed on either shaft diameter.

$36^{\circ}$ Angle of Throw


Note: Common location for a single pole per deck switch. For common location on two pole switches see circuit diagrams.

Angle C is $15^{\circ}$ in 12 position switches and $18^{\circ}$ in 10 position switches.
Grayhill part number and date code marked on detent cover label. Customer part
*Military style switch is 18 grams for 3 decks and 20 grams for 4 decks.
number marked on request. Military part number marked when required.

DIMENSIONS: Metric All dimensions are in millimeters


CIRCUIT DIAGRAMS: Standard, Military and Metric PC Mount


Multi-Deck Rotary Switches

## SERIES 71: PC Board Pattern In inches (and millimeters)

## All Styles Except 71BT



## SERIES 71: PC MOUNT ACCESSORY

## $1 / 8$ " and $1 / 4^{\text {" Diameter Shaft Styles }}$

In inches (and millimeters)

DIMENSIONS APPLY TO BOTH WASHERS.


Metric Mount Styles
In millimeters


For printed circuit styles. Mounting bushing provides additional support for the front end of the switch. Order separately by appropriate part number. Rotary switch discount applies.

## SERIES 71

## .5-.75" Diameter, 1/4 Amp, Process Sealed

## FEATURES

- No Hand Soldering Required
- Sealed to Resist Intrusion by Flux, Solder and Cleaning Solutions
- .75" Diameter
- 250 mA for 20,000 Cycles
- $36^{\circ}, 1$ or 2 Poles, Up to 5 Decks

- 10 Positions, Continuous Rotation, or 2-9 Positions With Fixed Stops

DIMENSIONS: Standard and Military In inches (and millimeters)


CIRCUIT DIAGRAMS


## STYLE 71BT: PC Board Pattern



## SERIES 71

## 0.5 to 0.75" Diameter, 1/4 Amp, Concentric Shaft

## FEATURES

- Two Switches in the Panel Space of a Single Shaft Rotary


DIMENSIONS In inches (and millimeters)


## CIRCUIT DIAGRAMS: Solder Lug Terminals



## ADD-A-POTSWITCHES

Contact Grayhill for Series 71 Concentric Add-A-Pot or Add-A-Switch type switches.

DIMENSIONS In inches (and millimeters)


## CIRCUIT DIAGRAMS: PC Mount Terminals



## SPECIFICATIONS

## Military Qualification MIL-DTL-3786/39

The military style of the Series 71 rotary switch is qualified to MIL-DTL-3786/39. Complete electrical rating information is listed on the following page. The Series 71 rotary switch qualification includes the $30^{\circ}$ and the $36^{\circ}$ angles of throw, in .125" $(3,18)$ and .250 " $(6,35)$ diameter shafts, with solder lug terminals and printed circuitterminals, in sealed and unsealed style switches. Standard variations such as shaft and/or bushing length, etc. that do not affect the switch performance can also be marked as qualified product. Contact Grayhill for complete details.

Dimensionally the military style is the same as the standard style with the exception of the PC version of 3 or 4 decks; a spacer deck between decks 2 and 3 adds another deck length to the
switch without increasing the number of operative decks.

Another difference in the standard and military styles is the mounting hardware. Ordered as options with a standard style switch these items are included with the military style switch: nonturn washer with solder lug style and a non-turn washer plus a mounting bushing washer with the PC terminal style.

Complete specification drawings are available from Grayhill, Inc. for the standard military qualified products. Military qualified Series 71 rotary switches may be ordered by the "M" number listed in Military Specification Sheet/39 orby Grayhill part number. All qualified switches will be marked to the specification.

## Military Shaft and Panel Seal

A shaft and panel seal is available to provide watertight mounting of the Series 71 standard military style rotary switches. Sealing is accomplished by an O-ring shaft seal and a panel seal washer. Panel seal dimension differences are shown in the dimensional drawings. When the panel seal is compressed, dimensions are approximately the same as an unsealed switch. If the non-turn washer supplied with the switch is used, it should not be allowed to extend entirely through the panel when mounting a sealed switch. However, the bushing may be used as a nonturn device instead. Switches are provided with a double flat bushing in styles which include the letter A and with a bushing which has a keyway in the styles which include the letter B.

## SPECIFICATIONS: Materials and Finishes

## Materials and Finishes <br> Standard Style

Cover: Diallyl per (MIL-M-14) ASTM-D5948 except for 71 BT (see bushing).
Base and Deck Separator: Diallyl per (MIL-M-14) ASTM-D-5948
Rotor Mounting Plate: Thermoplastic Bushing: Zinc casting, tin/zinc-plated. Through Bolts and Nuts, Shaft and Rear Support Plate, Stop Pins and Stop Arm (All Others): Stainless steel
Shaft, Stop Plates, Stop Arm (71BT):
Reinforced thermoplastic
Detent Rotor: Reinforced thermoplastic for 71BT; phenolic per (MIL-M-14) ASTM-D5948 for all others
Detent Balls: Steel, nickel-plated
Detent Springs: Tinned music wire
Rotor Contact: Silver alloy and beryllium copper
Base Contacts, Common Plate and Terminals: Brass, Gold plate .000005" minimum over Silver plate .00005 " over nickel .00002".
Front Support Plate (71 BT only): Tempered steel, tin/lead-plated. Interdeck Seal (71 BT Only): Silicone Extension: Brass, unplated

Mounting Hardware: One mounting nut and one internal tooth lockwasher are supplied with each switch. For switches with A in the style description, the nut is $.062^{\prime \prime}(1,57)$ thick by .312 " $(7,92)$ across flats. For switches with B or C in the style description, the nut is .094" $(2,39)$ thick by .562 " $(14,27)$ across flats. Nuts are brass, tin/zinc-plated or stainless steel.

## Materials and Finishes Military Qualified

Cover, Base and Deck Separator: Diallyl per (MIL-M-14) ASTM-D-5948
Rotor Mounting Plate: Thermoplastic
Bushing: Zinc casting, tin/zinc-plated
Through Bolts and Nuts, Shaft Extension, Lockwashers, Shaft and Rear Support Plate, Stop Pins and Stop Arm (All
Others): Stainless steel
Detent Balls: Steel, nickel-plated
Detent Springs: Tinned music wire
Rotor Contact: Silver alloy and beryllium copper
Base Contacts, Common Plate and Terminals:
Brass, gold plate .000005 " minimum over silver plate .00005" over Nickel .00002".

Detent Rotor: Phenolic per (MIL-M-14) ASTM-D-5948
Mounting Hardware: One mounting nut and one internal tooth lockwasher are supplied with each Series 71 switch. For switches with Style A in the description, the nut is .062" $(1,57)$ thick by .312 " $(7,92)$ across flats. For switches with Style B or C in the description, the nut is $.094^{\prime \prime}(2,39)$ thick by .562 " $(14,27)$ across flats. Nuts are brass, tin/zinc-plated or stainless steel.
Additional Hardware: Each switch is supplied with a non-turn washer to use if desired. Additionally, each PC mount switch is supplied with a mounting bushing washer (see PC Mount Accessory). For switches with Style A in the description, non-turn washer is stainless steel; for switches with Style B in the description, non-turn washer is stainless steel. Mounting bushing washer (PC Mount Accessory) is brass, tin/zincplated.

## SPECIFICATIONS: Electrical Ratings, Others

## Electrical Ratings General

Charts: Charts shown are for non-shorting (break before make) contacts. Measurements were made at $25^{\circ} \mathrm{C}$ and $68 \%$ relative humidity. The load life curves show the number of rotational cycles which can be expected for the voltage, current and type of load. Thus, for a standard style switch with a 300 milliampere 115 Vac resistive load, the expected life is 15,000 cycles. Reducing the load to 200 milliamperes increases the life to 25,000 cycles. Life limiting or failure criteria are listed in the rating sections which follow. Cycles: A cycle is a $360^{\circ}$ rotation and a return through all switch positions to the starting position.
Voltage: As listed in charts.


## Electrical Ratings <br> Standard Style

Curves are based on the following failure criteria:
Contact Resistance: 50 milliohms maximum (20 milliohms initially).
Insulation Resistance: 1,000 megohms minimum between terminals and shaft. ( 50,000 megohms initially).
Voltage Breakdown: 500 Vac minimum between mutually insulated parts.
Current Rating: These switches will carry 4 amperes with a maximum contact temperature rise of $20^{\circ} \mathrm{C}$. If the life limiting characteristics are less critical than those shown above, if elevated temperatures or reduced pressures are involved, Grayhill can predict the switch life for the application.
Meet the Following Requirements of MIL-DTL-3786: Moisture Resistance: Medium and High Shock; Vibration (10 to 2,000 cps); Thermal Shock ( $-65^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ ); Salt Spray, Explosion; and Stop Strength ( $10 \mathrm{in}-\mathrm{lb}$ ).

## Electrical Ratings

 Military StyleCurves are based on the following failure criteria:
Qualified to the following MIL-DTL-3786/39 circuit values: (also see standard style description.) The Series 71 has been tested to meet the requirements of MIL-DTL-3786, Style SR39, the majority of which are listed here. At $85^{\circ} \mathrm{C}$ approximately $68 \%$ relative humidity and sea level pressure, the switches have been tested to make and break the following loads, as stated in MIL-DTL-3786/39: 125 milliamperes at 28 Vdc resistive; 75 milliamperes at 115 Vac resistive.

The switches have also been tested at reduced barometric pressure ( 70,000 feet), $25^{\circ} \mathrm{C}$ at approximately $68 \%$ relative humidity to make and break the following loads as stated in MIL-DTL-3786/39:50 milliamperes, 28 Vdc resistive; 20 milliamperes, 115 Vac resistive. When tested to the above loads at stated conditions, the Series 71 switches meet the following lifelimiting criteria after 25,000 cycles of operation in accordance with MIL-DTL-3786/39.

Contact Resistance: 50 milliohms maximum after life.
Insulation Resistance: 1,000 megohms minimum between terminals and shaft.
Dielectric Strength: 500 Vac (atmospheric pressure) and 350 Vac (reduced pressure) between mutually insulated parts.

The Series 71 also meets the requirements of MIL-DTL-3786/39 for moisture resistance, stop strength, rotational torque, vibration (10 through $2,000 \mathrm{cps}$ ), medium and high shock, salt spray, explosion, thermal shock $\left(-65^{\circ} \mathrm{C}\right.$ to $85^{\circ} \mathrm{C}$ ) and terminal pull. When tested at sea level, $25^{\circ} \mathrm{C}$ and $68 \%$ relative humidity with failure criteria of 50 milliohms maximum contact resistance and 500 Vac breakdown voltage, these switches will make and break 250 milliamps at 28 Vdc inductive (250 millihenries) 500 milliamps at 28 Vdc resistive: 500 milliamps at 115 volts Vac, 60 hertz resistive, for 10,000 cycles of operation.

## Additional Characteristics

## Standard and Military Styles

Rotational Torque: 4-32 ounce-inches, (28$230 \mathrm{~N} \cdot \mathrm{~mm}$ ) depending on the number of poles per deck and the number of decks.
Contacts: Shorting or non-shorting wiping contacts with over 100 grams of contact force.
Shaft Flat Orientation: Opposite first position pole no. 1 (See Circuit Diagrams).
Terminals: Switches are provided with full circle of terminals regardless of the number of active positions.
Extended Studs: Switches of 6 or more decks (or concentric switches of 4 or more) have longer studs and extra stud nuts for recommended double end mounting. Stud hole size is $1 / 16^{\prime \prime}$ diameter for \#0-80 NF-2A thread.
Stop Strength: 10 pound-inches.
Mounting Bushing Strength: 10 poundinches.

Multi-Deck Rotary Switches

## ADJUSTABLE STOPS

Set and Reset Stops to Limit Rotation Form, Fit, Function Equivalent to Fixed Stop Styles


The adjustable stop Series 71 rotary switches allow you to change the number of positions per pole. Simply remove and relocate stop pins in the holes in the front of the switch. The pins are held in place by a self adhesive sticker which fits over the front plate.

This feature is available in the Series 71 single shaft standard switches with either $1 / 8^{\prime \prime}$ or $1 / 4^{\prime \prime}$ diameter shafts with either PC or solder lug terminals. It is not available in military qualified or concentric shaft styles.

All dimensions, ratings and characteristics are the same as the fixed stop equivalent. The chart shown here describes the adjustable stop style substitutions for the fixed stop styles. Although Series 71 is not an exact dimensional equivalent of the fixed stop styles of Series 8 and 9 , it most nearly represents a functional substitution.

| Fixed Stop <br> Style | Adjustable Stop <br> Substitution |
| :--- | :--- |
| 08 A | 71 AD |
| 09A | 71 AD |
| 71 A | 71 AD |
| 71 AF | 71 ADF |
| 71 B | 71 BD |
| 71 BF | 71 BDF |
| 71 E | 71 ED |
| 71 EF | 71 EDF |

## SHAFT AND PANEL SEAL



The shaft is sealed by an O-ring inside the bushing. The panel is sealed by an O-ring at the base of the bushing.

The seals do not alter the dimensions as shown in the drawings when the switch is mounted.

The panel seal is silicone rubber. The shaft seal is an O-ring per MIL-P-5516B.

ACCESSORIES: Non-Turn Washers In inches (and millimeters)

## $1 / 8^{\prime \prime}$ and $1 / 4^{1}$ Diameter Shaft Switches

The bushing of the Series 71 switch is designed so the switch will not turn if the panel has been cut to fit the exact bushing shape. The bushing for the ${ }^{1 / 8 "}$ diameter shaft switch has a double flat; the ${ }^{1 / 4 "}$ diameter shaft switch has a keyway in the bushing. An alternate means of keeping the switches from turning is to mount them with optional, non-turn washers.

Part number 50J1066 is made of Stainless Steel. It is supplied with military switches with Style A in the description. When ordered for standard product, a like number of switches must be ordered.
Part number 12C1087-1 is Brass, tin/zinc-plated and may be ordered for standard product.
Part number SHH694-5 is Stainless Steel washer supplied with all military style switches with Style B in the description.


PART NO. 50J1066 MILITARY AND STANDARD FOR ${ }^{1 / 8 " ~ D I A M E T E R ~ S H A F T ~}$


STANDARD

## 4mm Diameter Shaft Switches

## Non-Turn Washer

For styles E, ED, EF and EDF.
Mounting bushing washer provides non-turn feature.
302 Stainless Steel.
Part No. 71 J1103. Contact Grayhill for price.


Multi-Deck Rotary Switches

## CHOICES AND LIMITATIONS: Series 71

A $=1 / 8^{\prime \prime}$ Diameter Shaft
B $=1 / 44^{\text {D }}$ Diameter Shaft
$E=$ Metric Mount Shaft \& Bushing
D = Adjustable Stops (Adj. Stop)
S = Shaft and Panel Seal (S/P Seal)
$\mathrm{F}=\mathrm{PC}$ Mount Terminals
T = PC Mount Terminals and Process Sealed Switching Decks \& Bushing; no panel seal
$\mathrm{M}=$ Military
All switches without F or T have solder lugs

C = Concentric Shaft
2 Switches with same Style and Angle of Throw, one behind the other.
Limits below apply to either switch section (A or B).

| Basic Style | Style Choices With S/P Seal | Adj. Stop | Angle of Throw | No. Of Decks | Poles Per Deck | Positions <br> Per Pole ${ }^{1}$ | Shorting Or Non-Shorting |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { A } \\ & \text { B } \\ & \text { E } \end{aligned}$ | $\begin{aligned} & \text { AS } \\ & \text { BS } \\ & \text { ES } \end{aligned}$ | $\begin{aligned} & \text { AD } \\ & \text { BD } \\ & \text { ED } \end{aligned}$ | $30^{\circ}$ | 01 thru 12 01 thru 08 01 thru 05 01 thru 04 01 thru 03 01 or 02 | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 4 \\ & 5^{5} \\ & 6^{5} \end{aligned}$ | 02 thru $12^{3}$ <br> 02 thru 06 <br> 02 thru 04 <br> 02 or 03 <br> 02 <br> 02 | N or S <br> Nors <br> N or S <br> Nors <br> Nors <br> N or S |
|  |  |  | $36^{\circ}$ | 01 thru 12 <br> 01 thru 08 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 10^{3} \\ & 02 \text { thru } 05 \end{aligned}$ | N or S N or S |
| $\begin{aligned} & \mathrm{AF} \\ & \mathrm{BF} \\ & \mathrm{EF} \end{aligned}$ | ASF BSF ESF | ADF <br> EDF | $30^{\circ}$ | 01 thru 12 01 thru 08 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 12^{3} \\ & 02 \text { thru } 06 \end{aligned}$ | N or S N or S |
|  |  |  | $36^{\circ}$ | 01 thru 12 01 thru 08 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 10^{3} \\ & 02 \text { thru } 05 \end{aligned}$ | N or S N or S |
| BT | - | - | $36^{\circ}$ | 01 thru 05 01 thru 05 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 10^{3} \\ & 02 \text { thru } 05 \end{aligned}$ | N or S N or S |
| $\begin{aligned} & \text { MA } \\ & \text { MB } \end{aligned}$ | MAS MBS | —— | $30^{\circ}$ | 01 thru $05^{4}$ 01 thru $05^{4}$ 01 thru $05^{4}$ 01 thru $04^{4}$ 01 thru $02^{4}$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 6 \end{aligned}$ | 02 thru $12^{3}$ <br> 02 thru 06 <br> 02 thru 04 <br> 02 or 03 <br> 02 | N or S N or S N or S N or S Nors |
|  |  |  | $36^{\circ}$ | 01 thru $05^{4}$ 01 thru $05^{4}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 10^{3} \\ & 02 \text { thru } 05 \end{aligned}$ | N or S <br> N or S |
| $\begin{aligned} & \text { MAF } \\ & \text { MBF } \end{aligned}$ | MASF MBSF | — | $30^{\circ}$ | 01 thru 042,4 01 thru $04^{2,4}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 12^{3} \\ & 02 \text { thru } 06 \end{aligned}$ | N or S Nors |
|  |  |  | $36^{\circ}$ | 01 thru 04 ${ }^{2,4}$ 01 thru $04^{2,4}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 10^{3} \\ & 02 \text { thru } 05 \end{aligned}$ | N or S N or S |
| C | - | - | $30^{\circ}$ | 01 thru 03 <br> 01 thru 03 <br> 01 or 02 <br> 01 <br> 01 <br> 01 | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \end{aligned}$ | 02 thru $12^{3}$ <br> 02 thru 06 <br> 02 thru 04 <br> 02 or 03 <br> 02 <br> 02 | N or S N or S N or S N or S N or S N or S |
|  |  |  | $36^{\circ}$ | $\begin{aligned} & 01 \text { thru } 03 \\ & 01 \text { thru } 03 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 10^{3} \\ & 02 \text { thru } 05 \end{aligned}$ | N or S N or S |
| CF | - | - | $30^{\circ}$ | 01 thru 03 01 thru 03 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | 02 thru $12^{3}$ <br> 02 thru 06 | N or S N or S |
|  |  |  | $36^{\circ}$ | 01 thru 03 01 thru 03 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { thru } 10^{3} \\ & 02 \text { thru } 05 \end{aligned}$ | N or S N or S |

${ }^{1}$ For Adjustable Stop styles (with the letter D), use AJ instead of number of positions when ordering.
${ }^{2}$ Military Qualified PC mount switches of 3 or 4 operative decks have an additional spacer deck after deck 2. Use total decks to calculate
length; but use only the number of operative decks when creating the part number.
${ }^{3}$ For 1-pole switches with maximum positions, specify Fixed stop after last position or Continuous rotation when ordering. (Note: 1 p , 71BT, 10 positions, is available only as Continuous).
${ }^{4}$ In addition to qualified types (Solder lug-5 decks; PC mount-4 decks), Grayhill can provide switches with additional decks in the materials of the ' M ' style. Contact Grayhill.
${ }^{5}$ Switches in $30^{\circ}$ throw with 5 or 6 poles per deck are not available with adjustable stops.

ORDERING INFORMATION: Single Shaft Switches


* All rotary switches that are required to have military designated markings and testing adhering to MIL-DTL-3786 are to be ordered by specifying the military part number identified on the appropriate slash sheet.

ORDERING INFORMATION: Concentric Shaft Switches


