## SERIES 08,09,42,44,50

Spring Return

## DESCRIPTION

A spring return rotary switch has 1 or more momentary positions. Maintaining contact at momentary positions requires rotational force. Releasing the force allows the mechanism to return the contact to a normal, or detent, position.

## DIMENSIONS

Series 08 \& 09


| No. of <br> Decks | Dim <br> $\mathbf{A}$ | $\operatorname{Dim}$ <br> B |
| :---: | :---: | :---: |
| 1 | $.960(24,38)$ | $.062(1,57)$ |
| 2 | $1.228(31,19)$ | $.062(1,57)$ |
| 3 | $1.496(38,0)$ | $.062(1,57)$ |
| 4 | $1.764(44,81)$ | $.062(1,57)$ |
| 5 | $2.032(51,61)$ | $.062(1,57)$ |
| 6 | $2.550(64,77)$ | $.312(7,92)$ |

For all other dimensions and specifications, see Standard Switch pages.

## STANDARD SWITCH PAGES

Series 08 \& $09 \quad$ Pages F-45
$\begin{array}{ll}\text { Series } 42 \text { \& } 44 & \text { Pages F-51 } \\ \text { Series } 50 & \text { Pages F-15 }\end{array}$
Series 50
Pages F-15

## CONFIGURATIONS

This configuration indicates a counterclockwise force is required to hold the switch at position \#1. " M " indicates a momentary position counterclockwise of " D " and " D ", detented ones. Positions

$$
\begin{array}{ccc}
1 & 2 & 3 \\
M & D & D
\end{array}
$$

Releasing this force breaks contact with position \#1 and returns the switch to \#2. Normal rotary switch detent action occurs when the switch is rotated between position \#2 and \#3.
All of the configurations (except MDM) list a basic 2 position arrangement which is shown in italics. Example: MDDDDD or DDDDDM. Several positions can be added during the switch construction at the factory; but, any configuration must always contain the 2 basic positions.

## FEATURES

- Hold-To-Test, Hold-To-Calibrate, And Other Momentary Applications
- Choice of Configurations, Ratings, Styles and Circuitry



## Series 50

Equivalent to Series 50 Standard Switches


## SELECTING A SWITCH

1. Select a Configuration: The total number of positions always includes the 2 basic positions. A (4) position switch of DDDDM configuration would have 3 detent positions counterclockwise of the momentary position
2. Select Series, Angle of Throw, and Style: See the Choices Chart. The basic switch description, series, and throw are as follows:
$1 / 2 ", 1 / 4 \mathrm{Amp}$, multi-deck $08=36^{\circ} \quad 09=30^{\circ}$ $1^{\prime \prime}, 1$ Amp, multi-deck $\quad 42=36^{\circ} \quad 44=30^{\circ}$ $1 / 2^{\prime \prime}, 200 \mathrm{~mA}$, single deck $50=36^{\circ}$
Electrical ratings are the same as those of the conventional switches with the exception of life. Life is limited to 10,000 cycles of operation ( 25,000 cycles for Series 50 ) due to the spring arrangement. Dimensions are the same as for conventional types except for the shaft flat orientation of the $3,4,5$, and 6 pole, Series 09 and 44 in the DDDDDM configuration (see chart).
3. Select Poles \& Positions Per Pole: If you do not find the poles and positions per pole you need in one series, try another or contact the factory. If the behind panel length is a problem, select a multi-pole type instead of a single deck.

## OPTIONS

Watertight panel seal; Multi-pole switches that exceed the limits noted in the Selector Chart; Series 50 MD or $D M$ configurations in Military styles; Series 08, 09, \& 44 in MMMDMMM, and in MMDDMM, and in MMMMMD.
Not available through Distributors

## ORDERING INFORMATION

Create the part number using this example.


## CHOICES AND LIMITATIONS

| Con- <br> figur- <br> ation | Conventional Switch | $\begin{gathered} \text { Description } \\ \text { Of } \\ \text { Style } \end{gathered}$ | Spring Return Stem Number (See Ordering Info.) | No. Decks | Poles Per Deck | Positions Per Pole \& Contact Type | Location Of Unique Position, Detent or Momentary | Term. Opp. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DDDDDM | 08A36 | Standard | 8317 | $\begin{aligned} & 1 \text { to } 6 \\ & 1 \text { to } 3 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 05 \text { ( } \mathrm{N} \text { or S) } \\ & 02 \text { to } 05 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { M } 5 \\ & \text { M 5, } 10 \end{aligned}$ | $\begin{aligned} & 5 \\ & 5 \end{aligned}$ |
|  | 09A30 | Standard | 9310 | $\begin{gathered} 1 \text { to } 6 \\ 1 \text { to } 3 \\ 1 \text { or } 2 \\ 1 \\ 1 \end{gathered}$ | $\begin{gathered} 1 \\ 2 \\ 3 \\ 4 \\ 5 \text { or } 6 \end{gathered}$ | 02 to 06 ( N or S ) <br> 02 to 06 ( N or S ) <br> 02 to 04 ( N or S) <br> 02 or 03 ( N or S) <br> 02 ( N or S) | M6 <br> M 6, 12 <br> M 4, 8, 12 <br> M 3, 6, 9, 12 <br> M 2, 4, 6, 8, 10, 12 | 6 6 4 3 2 |
|  | 42A36 | Standard | 42349 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \\ & \hline \end{aligned}$ | $\begin{aligned} & 02 \text { to } 05 \text { ( } \mathrm{N} \text { or S) } \\ & 02 \text { to } 05 \text { ( } \mathrm{N} \text { or S) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { M } 5 \\ & \text { M } 5,10 \end{aligned}$ | 5 5 |
|  | 42M36 | Military | 42352 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 05 \text { (N or S) } \\ & 02 \text { to } 05 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { M } 5 \\ & \text { M 5, } 10 \end{aligned}$ | 5 5 |
|  | 44A30 | Standard | 44346 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 06 \text { (N or S) } \\ & 02 \text { to } 06 \text { (N or S) } \end{aligned}$ | M 6 <br> M 6, 12 | 6 6 |
|  | 44M30 | Military | 44350 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \\ & \hline \end{aligned}$ | $\begin{aligned} & 02 \text { to } 06 \text { ( } \mathrm{N} \text { or S) } \\ & 02 \text { to } 06 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { M } 6 \\ & \text { M } 6,12 \end{aligned}$ | 6 6 |
| MDDDDD | 08A36 | Standard | 8319 | $\begin{aligned} & 1 \text { to } 6 \\ & 1 \text { to } 3 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 05 \text { (N or S) } \\ & 02 \text { to } 05 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { M } 1 \\ & \text { M 1,6 } \end{aligned}$ | 1 1 |
|  | 09A30 | Standard | 9312 | $\begin{gathered} 1 \text { to } 6 \\ 1 \text { to } 3 \\ 1 \text { or } 2 \\ 1 \\ 1 \end{gathered}$ | $\begin{gathered} 1 \\ 2 \\ 3 \\ 4 \\ 5 \text { or } 6 \end{gathered}$ | 02 to 06 ( N or S) <br> 02 to 06 ( N or S ) <br> 02 to 04 ( N or S ) <br> 02 or 03 ( N or S 02 ( N or S) | M 1 <br> M 1, 7 <br> M 1, 5, 9 <br> M 1, 4, 7, 10 <br> M 1, 3, 5, 7, 9, 11 | 1 1 1 1 1 |
|  | 09M30 | Military | 9356 | $\begin{gathered} 1 \text { to } 3 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | 02 to 06 ( N or S ) 02 to 06 ( N or S ) 02 to 04 ( N or S) | M 1 <br> M 1, 7 <br> M 1, 5, 9 | 1 1 1 |
|  | 42A36 | Standard | 42350 | $1 \text { to } 3$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 05 \text { (N or S) } \\ & 02 \text { to } 05 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { M } 1 \\ & \text { M 1,6 } \end{aligned}$ | 1 1 |
|  | 42M36 | Military | 42353 | $1 \text { to } 3$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 05 \text { ( } \mathrm{N} \text { or S) } \\ & 02 \text { to } 05 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { M } 1 \\ & \text { M 1,6 } \end{aligned}$ | 1 1 |
|  | 44A30 | Standard | 44312 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 06 \text { (N or S) } \\ & 02 \text { to } 06 \text { (N or S) } \end{aligned}$ | M 1 <br> M 1, 7 | 1 <br> 1 |
|  | 44M30 | Military | 44351 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 02 \text { to } 06 \text { ( } \mathrm{N} \text { or S) } \\ & 02 \text { to } 06 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { M 1 } \\ & \text { M 1,7 } \end{aligned}$ | 1 <br> 1 |
| MDM | 50A36 | Std., Solder Lug | 503265-1-03N* | 1 | 1 | 03N | D 2 | 2 |
|  | 50P36 | Std., PC Mount | 503267-1-03N* | 1 | 1 | 03N | D 2 | 2 |
|  | 8A36 | Standard | 8316 | $\begin{aligned} & 1 \text { to } 6 \\ & 1 \text { to } 3 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 03 \text { ( } \mathrm{N} \text { or } \mathrm{S} \text { ) } \\ & 03 \text { ( } \mathrm{N} \text { r } \mathrm{S} \text { ) } \end{aligned}$ | $\begin{aligned} & \text { D } 2 \\ & \text { D 2, } 7 \end{aligned}$ | 2 |
|  | 9A30 | Standard | 9311 | $\begin{gathered} 1 \text { to } 6 \\ 1 \text { to } 3 \\ 1 \text { or } 2 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \end{aligned}$ | $\begin{aligned} & 03 \text { ( } \mathrm{N} \text { or } \mathrm{S} \text { ) } \\ & 03 \text { ( } \mathrm{N} \text { or } \mathrm{S} \text { ) } \\ & 03 \text { ( } \mathrm{N} \text { S } \mathrm{S} \text { ) } \\ & 03 \text { or } \end{aligned}$ | D 2 <br> D 2, 8 <br> D 2, 6, 10 <br> D 2, 5, 8, 11 | 2 <br> 2 <br> 2 <br> 2 |
|  | 42A36 | Standard | 42348 | $1 \text { to } 3$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 03 \text { (N or S) } \\ & 03 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { D } 2 \\ & \text { D 2, } 7 \end{aligned}$ | 2 2 |
|  | 42M36 | Military | 42351 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 03 \text { (N or S) } \\ & 03 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { D } 2 \\ & \text { D 2, } 7 \end{aligned}$ | 2 |
|  | 44A30 | Standard | 44345 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 03 \text { (N or S) } \\ & 03 \text { (N or S) } \end{aligned}$ | $\begin{aligned} & \text { D } 2 \\ & \text { D 2, } 8 \end{aligned}$ | 2 2 |
|  | 44M30 | Military | 44349 | $\begin{gathered} 1 \text { to } 3 \\ 1 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 03 \text { ( } \mathrm{N} \text { or } \mathrm{S} \text { ) } \\ & 03 \text { ( } \mathrm{N} \text { or } \mathrm{S}) \end{aligned}$ | $\begin{aligned} & \text { D } 2 \\ & \text { D 2, } 8 \end{aligned}$ | 2 |

*This is a complete (not stem) part number. **Terminal opposite shaft flat when switch is in its unique (detent or momentary) position.

Available from your local Grayhill Distributor
For prices and discounts, contact a local Sales Office In CHINA(Beijing) Phone: (010)6851-9097.

