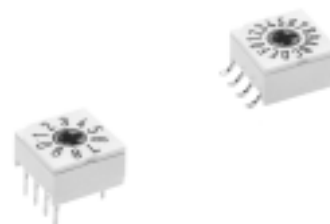


# P60A & P60AS SERIES ROTARY DIP SWITCHES

## FEATURES

- New 4 + 1 terminal layout.
- Completely sealed for process compatibility.
- Ultra-compact size with 10 or 16 positions.
- Precision designed detent action.
- Thru-hole (P60A Series) & SMT (P60AS Series) models.
- High reliability & long life.
- Clockwise or counterclockwise settable.
- Solder coated terminals.



## GENERAL SPECIFICATIONS

### ELECTRICALS

Operating voltage	24 VDC max.
Contact rating, static	400 mA max.
Contact rating, dynamic	150 mA max.
Test voltage	250V 50Hz/1 min.
Initial contact resistance	< 100 milliohms
Insulation resistance	> 100 megohms

### MECHANICALS, THERMALS

Torque	0.98 inch-oz. min. (0.7 Ncm min.)
Expected life	10,000 switching operations
Contact force	15 grams min.
Operating temperature range	-20°C to 85°C

### SOLDERING RECOMMENDATIONS

Hand soldering	340°C max. for 2 seconds max. (40 watt iron max.)
Wave soldering	260°C max. for 10 seconds max.
Reflow soldering (SMT)	215°C max. for 40 seconds max.
Solvent washing	Freons or alcohol. (Do not use chlorinated solvents)
Aqueous cleaning	Deionized water preferred

## MATERIALS

Base	UL94V-O, high temperature thermoplastic
Cover	UL94V-O, high temperature thermoplastic
Actuator	Nylon
Contacts	Gold over nickel plated stainless steel
Terminals	Solder coated copper
Terminal sealing	Molded-in
Actuator seal	'O'-ring

P

## Thru-hole and SMT Printed Circuit Models

### Code (see truth tables pg. G22)

### Positions

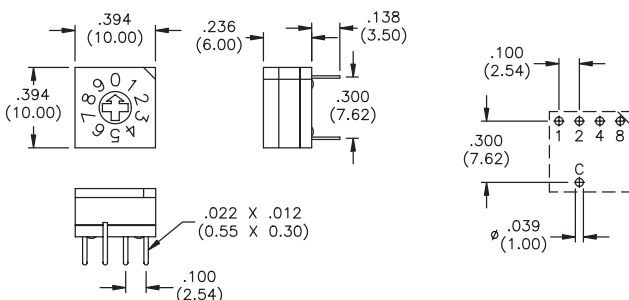
### Model No. Thru-hole Mounting (see fig. 1)

### Model No. Surface Mounting (see fig. 2)

Binary Coded Decimal	10
Complement of BCD	10
Binary Coded Hexadecimal	16
Complement of BCH	16

<b>P60A701</b>	<b>P60AS701</b>
<b>P60A702</b>	<b>P60AS702</b>
<b>P60A703</b>	<b>P60AS703</b>
<b>P60A706</b>	<b>P60AS706</b>

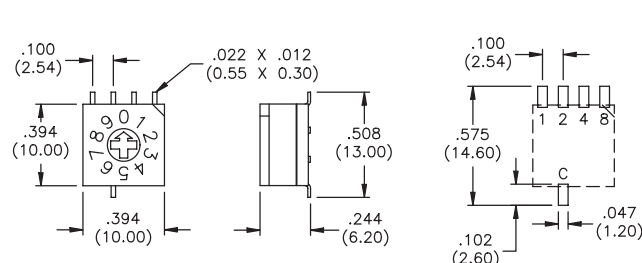
Figure 1



Mechanical outline

P.C. hole pattern

Figure 2



Mechanical outline

P.C. pad layout

## STANDARD OPTIONS BY SERIES:

Series	P60A	P60AS
<b>Actuators</b>		
<b>3</b> Spindle	X	X*
<b>5</b> Segment wheel	X	X*
<b>7</b> Cross shaped slot	X	X
<b>Codes</b>		
<b>01</b> BCD	X	X
<b>02</b> BCD complement	X	X
<b>03</b> Hexadecimal	X	X
<b>06</b> Hexadecimal Comp.	X	X
<b>Terminals</b>		
<b>None</b> Straight	X	
<b>V</b> Crimped	X	
<b>L508</b> Rt. angle 5.08 (.200")	X	
<b>None</b> SMT		X

\* - Please contact factory

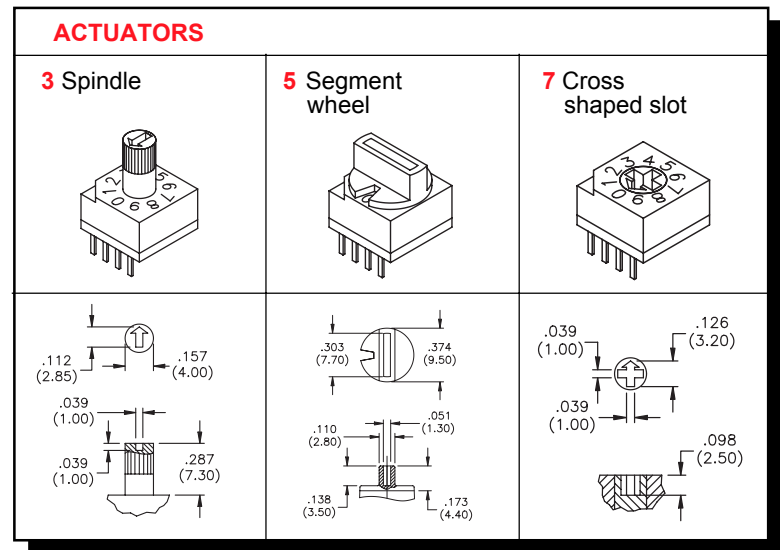
## ORDER GUIDE:

Make selections from the above table in sequence to specify a complete model number.

Note that 'None' indicates that no option suffix is required.

Example: **P60A301V**  
 Series Actuator Terminals Code

## P60A & P60AS SERIES



See page G19 for optional Operating Elements.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## CODES

NOTE: For each dial position in tables, Common terminals (C) are connected to terminal number(s) indicated - i.e. - none or combinations of 1, 2, 4 or 8. Each model in this series has 2 Common terminals.

BINARY CODED DECIMAL (01)					
10 Positions					
Dial No.	1	2	4	8	
0					
1	•				
2		•			
3	•	•			
4			•		
5	•			•	
6		•	•		
7	•	•	•		
8				•	
9	•			•	

COMP. OF BINARY CODED DECIMAL (02)					
10 Positions					
Dial No.	1	2	4	8	
0	•	•	•	•	
1		•	•	•	
2	•		•	•	
3			•	•	
4	•	•		•	
5		•		•	
6	•			•	
7				•	
8	•	•	•		
9		•	•		

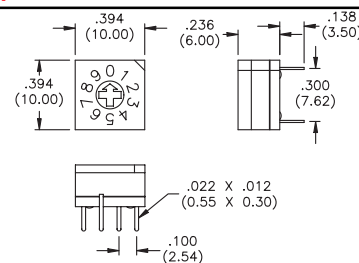
BINARY CODED HEXADECIMAL (03)					
16 Positions					
Dial No.	1	2	4	8	
0					
1	•				
2		•			
3	•	•			
4			•		
5	•			•	
6		•	•		
7	•	•	•		
8				•	
9	•			•	
A		•		•	
B	•	•		•	
C			•	•	
D	•		•	•	
E		•	•	•	
F	•	•	•	•	

COMP. OF BINARY CODED HEXADEC. (06)					
16 Positions					
Dial No.	1	2	4	8	
0	•	•	•	•	
1		•	•	•	
2	•		•	•	
3			•	•	
4	•	•		•	
5		•		•	
6	•			•	
7				•	
8	•	•	•		
9		•	•		
A	•				
B		•	•		
C	•	•			
D					
E	•				
F					

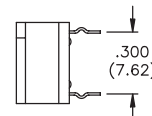
## MECHANICAL OUTLINES

### Terminal option suffix\*:

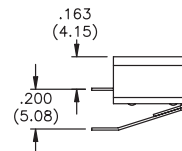
**NONE**  
Straight terminals



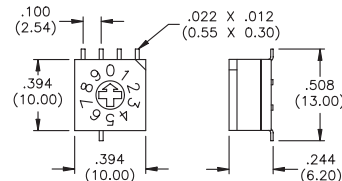
**V**  
Crimped terminals



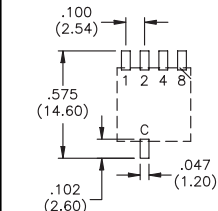
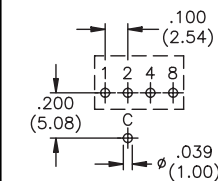
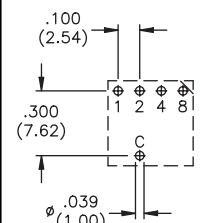
**L508**  
Right angle terminals



**NONE**  
SMT terminals



### Mtg. hole pattern:



\* 'None' indicates no option suffix is required.

# Mouser Electronics

Authorized Distributor

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