

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

Thru-hole and SMT Printed Circuit Models

Code (see truth tables pg. G22)

Positions

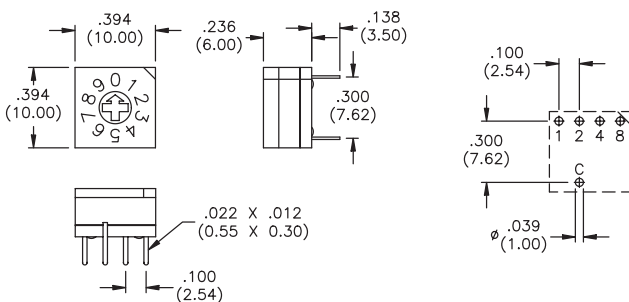
Model No. Thru-hole Mounting (see fig. 1)

Model No. Surface Mounting (see fig. 2)

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

P60A701	P60AS701
P60A702	P60AS702
P60A703	P60AS703
P60A706	P60AS706

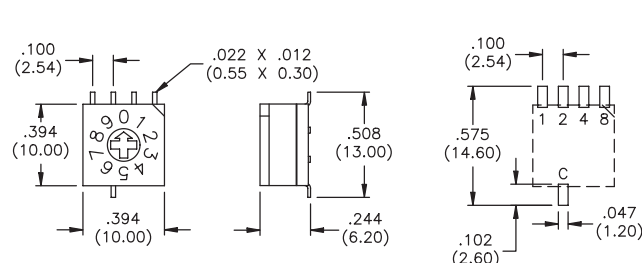
Figure 1



Mechanical outline

P.C. hole pattern

Figure 2



Mechanical outline

P.C. pad layout

STANDARD OPTIONS BY SERIES:

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

* - Please contact factory

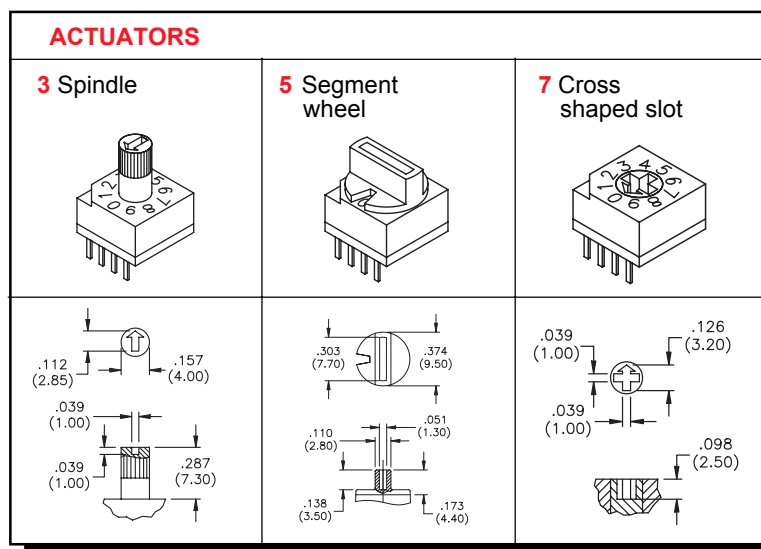
ORDER GUIDE:

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		•	•		

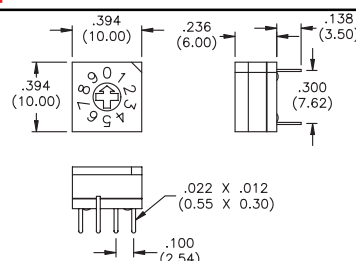
BINARY CODED HEXADECIMAL (03)					
16 Positions					
Dial No.	1	2	4	8	
0					
1	•				
2		•			
3	•	•			
4			•		
5	•			•	
6		•	•		
7	•	•	•		
8				•	
9	•			•	
A		•		•	
B	•	•		•	
C			•	•	
D	•		•	•	
E		•	•	•	
F	•	•	•	•	

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					

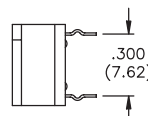
MECHANICAL OUTLINES

Terminal option suffix*:

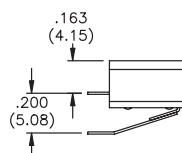
NONE
Straight terminals



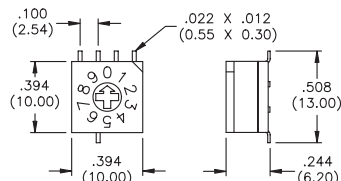
V
Crimped terminals



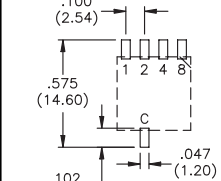
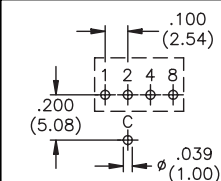
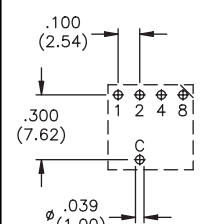
L508
Right angle terminals



NONE
SMT terminals



Mtg. hole pattern:



* 'None' indicates no option suffix is required.