

P36 & P36S SERIES ROTARY DIP SWITCHES

Outside the U.S. and the UK,
this series is sold as the
CR36 series.

FEATURES

- 3 + 3 terminal layout.
- Completely sealed for process compatibility.
- Ultra-compact size with 10 or 16 positions.
- Precision designed detent action.
- Thru-hole (P36 Series) & SMT (P36S 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	100 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	-50°C to 125°C

SOLDERING RECOMMENDATIONS

Hand soldering	350°C max. for 4 seconds max. (40 watt iron max.)
Wave soldering	280°C max. for 5 seconds max.
Reflow soldering (SMT)	260°C max. for 10 seconds max.
Solvent washing	Freons or alcohol. (Do not use chlorinated solvents)
Aqueous cleaning	Deionized water preferred



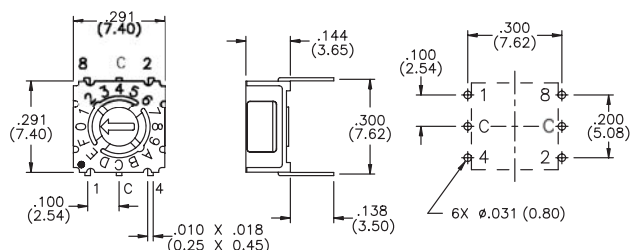
MATERIALS

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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Thru-hole and SMT Printed Circuit Models		Model No. Thru-hole Mounting (see fig. 1)	Model No. Surface Mounting (see fig. 2)
Code (see truth tables pg. G16)	Positions		
Binary Coded Decimal	10	P36101	P36S101
Complement of BCD	10	P36102	P36S102
Binary Coded Hexadecimal	16	P36103	P36S103
Complement of BCH	16	P36106	P36S106

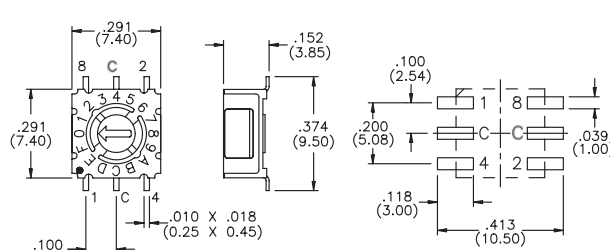
Figure 1



Mechanical outline

P.C. hole pattern

Figure 2



Mechanical outline

P.C. pad layout

STANDARD OPTIONS BY SERIES:

Series		P36	P36S
Actuators			
1	Arrow shaped slot	X	X
3	Spindle	X	X
8	Slotted spindle	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	
L254	Rt. angle 2.54 (.100")	X	
None	SMT		X

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.

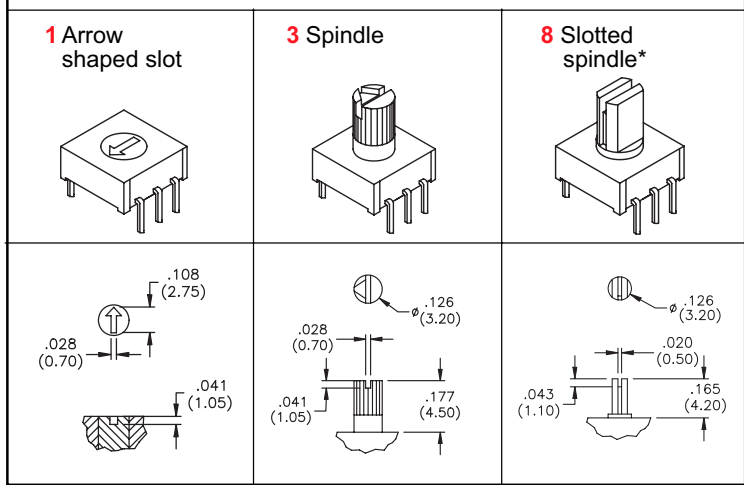
Example;

P36101V

Series ——— Terminals
Actuator ——— Code

P36 & P36S SERIES

ACTUATORS



* Slotted spindle actuator is color coded to truth table code selection as follows: BCD - red, BCD complement - Orange, Hexadecimal - gray, Hexadecimal complement - white.

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*:	Mtg. hole pattern:
Technical drawing of terminal option suffix 'C'. Front view shows a square terminal with dimensions: .291 (7.40) for width and height, .100 (2.45) for mounting hole diameter, and .010 X .018 (0.25 X 0.45) for the central feature. Side view shows a height of .138 (3.50) and a mounting hole diameter of .300 (7.62).	Technical drawing of the mounting hole pattern for terminal option suffix 'C'. It shows a 2x4 grid of mounting holes with dimensions: .300 (7.62) for the pitch between holes, .100 (2.54) for the distance from the edge to the first hole, and .200 (5.08) for the distance between the two columns of holes. The holes are specified as 6X Ø.031 X (0.80).
Technical drawing of terminal option suffix 'L'. Side view shows a height of .300 (7.62).	
Technical drawing of terminal option suffix 'U'. Front view shows a square terminal with dimensions: .106 (2.70) for width, .100 (2.54) for height, and .010 X .018 (0.25 X 0.45) for the central feature. Side view shows a height of .152 (3.85) and a mounting hole diameter of .374 (9.50).	Technical drawing of the mounting hole pattern for terminal option suffix 'U'. It shows a 2x4 grid of mounting holes with dimensions: .100 (2.54) for the pitch between holes, .100 (2.54) for the distance from the edge to the first hole, and .200 (5.08) for the distance between the two columns of holes. The holes are specified as 6X Ø.031 X (0.80).
Technical drawing of terminal option suffix 'W'. Front view shows a square terminal with dimensions: .291 (7.40) for width and height, .100 (2.45) for mounting hole diameter, and .010 X .018 (0.25 X 0.45) for the central feature. Side view shows a height of .152 (3.85) and a mounting hole diameter of .374 (9.50).	Technical drawing of the mounting hole pattern for terminal option suffix 'W'. It shows a 2x4 grid of mounting holes with dimensions: .118 (3.00) for the pitch between holes, .100 (2.54) for the distance from the edge to the first hole, and .200 (5.08) for the distance between the two columns of holes. The holes are specified as 6X Ø.031 X (0.80).

* 'None' indicates no option suffix is required.