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	-30°C to 90°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	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.

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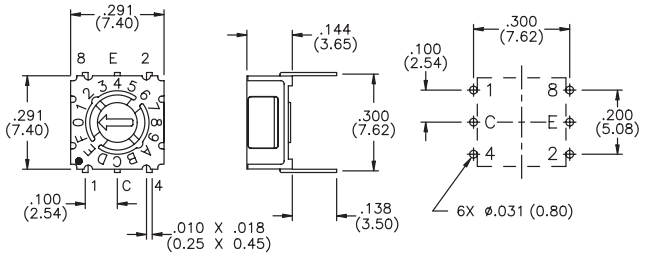
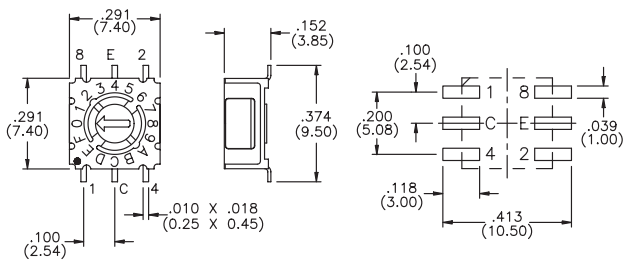
Thru-hole and SMT Printed Circuit Models		Model No. Thru-hole Mounting (see fig. 1)	Model No. Surface Mounting (see fig. 2)
Code (see truth tables pg. G16)	**Positions**		
Binary Coded Decimal	10	**P36101**	**P36S101**
Complement of BCD	10	**P36102**	**P36S102**
Binary Coded Hexadecimal	16	**P36103**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

Figure 1



Mechanical outline P.C. hole pattern

Figure 2



Mechanical outline P.C. pad layout

APEM, 63 NECK ROAD, HAVERHILL, MA USA 01835-0788 TOLL FREE: (877) 246-7890 FAX: (978) 372-3534 E-mail: info@apem.com

P36 & P36S SERIES

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.

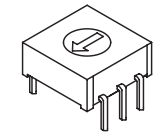
Note that 'None' indicates that no option suffix is required.

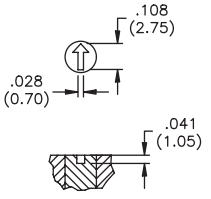
Example;

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

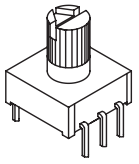
ACTUATORS

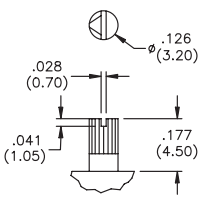
1 Arrow shaped slot



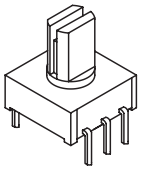


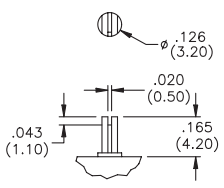
3 Spindle





8 Slotted spindle*





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

Tape and reel packaging available for SMT models - consult factory.

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	●	●	●	●

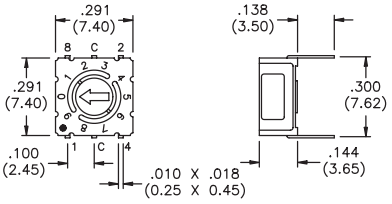
COMP. OF BINARY CODED HEXADEC. (06)

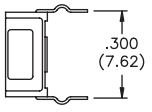
16 Positions

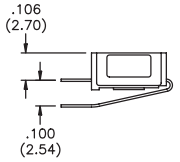
Dial No.	1	2	4	8
0	●	●	●	●
1		●	●	●
2	●		●	●
3			●	●
4	●	●		●
5		●		●
6	●			●
7				●
8	●	●	●	
9		●	●	
A	●		●	
B			●	
C	●	●		
D		●		
E	●			
F				

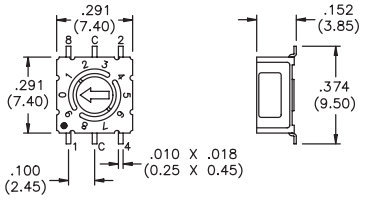
MECHANICAL OUTLINES

Terminal option suffix*:

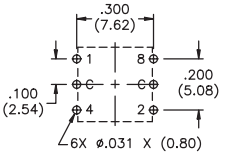


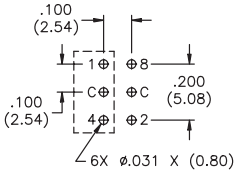


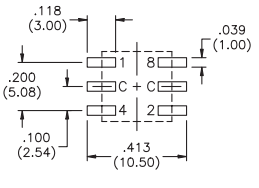




Mtg. hole pattern:







* 'None' indicates no option suffix is required.

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