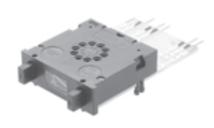
DPS10 SERIES PUSHWHEEL SWITCHES





FEATURES

- .394"(10mm) wide pushwheel switches with large visible readout characters .
- Bi-directional snap action detent pushbutton mechanism.
- Black housing and drum with white printing.
- Gangable front mounting models with spacers and side covers.
- Gold wiping action contacts.
- P.C. board options include solderable lands.

DPS10 SPECIFICATIONS

Panel mounting hole:

Height 1.300"(33mm) Width .394"(10mm)

Installed depth with p.c. board:

Short 1.535"(39mm) 1.968"(50mm) Long

Insertion from front yes Insertion from rear no

CODES

Code	positio	ns marking	
111 Decimal	10	0-9	see truth tables
131 BCD	10	0-9	see truth tables
137 BCD comp	10	0-9	see truth tables
141 BCD + comp	10	0-9	see truth tables
301 Hexadecimal	16	0-9, A-F(0-15)	see truth tables
307 Hexadec con	np 16	0-9, A-F(0-15)	see truth tables
400 change-over	10	+,-,+,-,etc	see truth tables

ELECTRICAL DATA

40 V max. Operating voltage: Contact load, static: 1 A max. Contact load, dynamic: 100 mA max.

less than 100 mOhm Contact resistance (type AK):

TECHNICAL DATA

Operating temperature range: -20°C to 80°C

Electric life, min. switching cycles greater than 1,000,000

Actuation force, approx (oz.): 16 Weight, approx. (grams): 7.5

Character ht: 10 digit - .276" (7mm) 16 digit - .169" (4.3mm)

Audible click

yes Vibration DIN IEC 68, parts 2-6 yes Shock DIN 40046, part 7 ves

MATERIALS

Body: **PPO**

PC board: FR 4 DIN 40802

> IEC 249-2, Contact surface gold over nickel on copper

Sliding contact: Gold over nickel

on copper alloy

STANDARD COLORS

Housing, Drum, Printing

2 = black 3 = white2.2.3

Other special features are available upon

request including:

Factory or customer set stops (10 digit models)

L.E.D. illumination (transparent drum)

Red digits

Decimal point

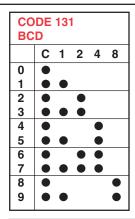
Special codes or printing

Gray housing

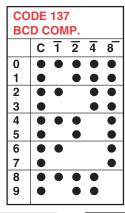
See sockets at end of Pushwheel section.

J

TRUTH TABLES

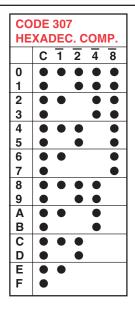


SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



CODE 400 CHANGE-OVER								
	С	A+	Α-					
+	•							
-								
+	•	•						
-								
+	•	•						
-								
+	•	•						
-	•							
+	•	•						
-	•							

	CODE 301 HEXADECIMAL											
	1 2 4 8 C											
0					C • • • • • • • • • • • • • • • • • • •							
1												
2												
3												
4												
5	•		•									
6												
7	•				•							
8												
9	•				•							
Α												
В	•				•							
С												
D					•							
Е					•							
F												



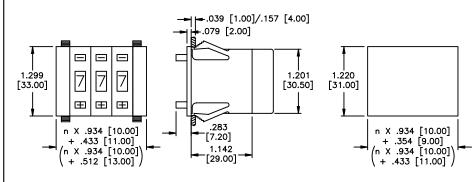
	CODE 111 DECIMAL											
	С	0	1	2	3	4	5	6	7	8	9	
0	•	•										
1	•		•									
2	•			•								
3	•				•							
4 5	•					•						
5	•						•					
6	•							•				
7	•								•			
8	•									•		
9	•										•	

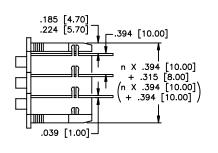
	CODE 141 BCD + COMP.									
	С	1	2	4	8	1	2	4	8	
0	•					•	•	•	•	
1	•	•					•	•	•	
2	•		•			•		•	•	
3	•	•	•					•	•	
4	•			•		•	•		•	
5	•	•		•			•		•	
6	•		•	•		•			•	
7	•	•	•	•					•	
8	•				•	•	•	•		
9	•	•			•		•	•		

MECHANICAL OUTLINE WITH PANEL CUT-OUT & MOUNTING

n = number of decades

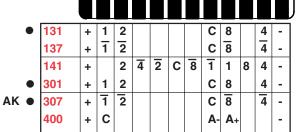
Dimensions in brackets apply when DPS910PB2 side covers are used.





PIN CONNECTIONS

- The switching mode is shorting - i.e. - even during actuation, at least one output is connected to input C.
- "bl" is used for models ordered with L.E.D. illumination only.



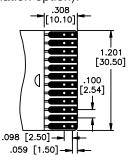
111		0) '	1	2	3	C	: 4	ŀ	5	6	7	8	9
111bl	+	С	0	1	2	3	4	5	6	7	8	9		-

Pitch .079"(2mm)

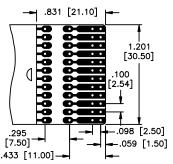
DPS10 SERIES PUSHWHEEL SWITCHES

PRINTED CIRCUIT OPTIONS

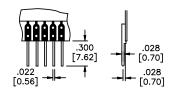
P.C. boards have .039" (1mm) holes and are suitable for soldering or socket connection (with the exception of LED illumination option).



AK short p.c. board



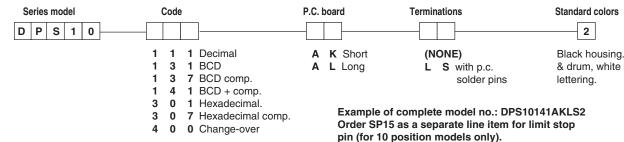
AL long p.c. board Allows customer to add resistors, diodes, ect.



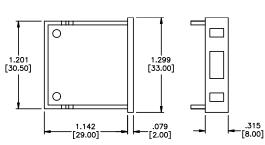
LS p.c. board w/solder pins

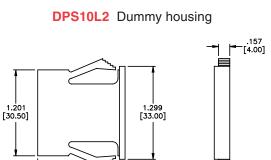
Ordering information: Below is an order format that enables you to 'build your own switch' and specify the correct switch model number by simply selecting from available options shown and filling in the boxes. Consult factory for fully assembled switches.

'BUILD YOUR OWN SWITCH' ORDER FORMAT



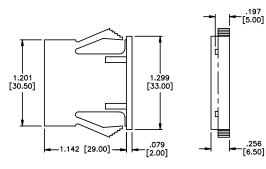




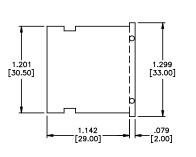


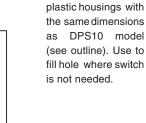
DPS910PB2 Pair of side covers

-1.142 [29.00]



DPS910P2 Pair of side covers





DPS910A2 Spacer

DPS10L2

Dummy switches These are empty

SOCKETS FOR PUSHWHEEL SWITCHES

FEATURES

- Glass fiber reinforced, self extinguishing body.
- Solder lug or p.c. terminals.
- Permanently marked terminals.
- High insertion/withdrawal force.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Glass fiber reinforced PPO Body:

(self-extinguishing, non drip

group 1).

Contacts: Gold over nickel over

phosphor bronze

SPECIFICATIONS

Contact spacing: .079" (2mm) Contact rating: 40 V at 1 Amp

Less than 15 milliohms Contact resistance: Greater than 10¹² ohms Insulation resistance:

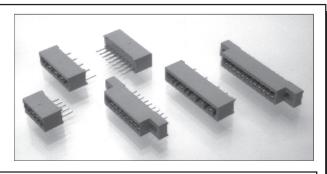
500 V Test voltage:

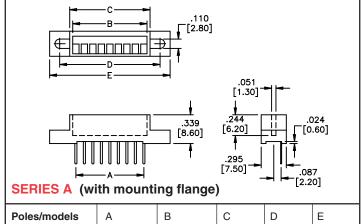
Operating temperature: -40°C to 100°C Insertion force/contact: Approx. 7.2 oz. Withdrawal force/contact: Approx. 6.5 oz.

Socket integrity: 100 insertions min. with no

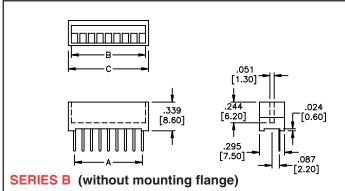
change to above values

TERMINATIONS L Solder lug (for .100"(2.54mm) spacing only. LS Printed circuit





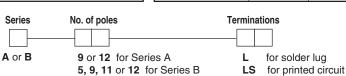
Poles/models	А	В	С	D	Е
9 poles for	8 X .100"	.874"	.945"	1.180"	1.417"
SMCD & DPS8	(2.54mm)	(22.2mm)	(24mm)	(30mm)	(36mm)
12 poles for	11 x .100"	1.200"	1.300"	1.535"	1.772"
DPS9 & DPS10	(2.54mm)	(30.5mm)	(33mm)	(39mm)	(45mm)



Poles/models Α 4 X .100" 5 poles for .559" .598" PICOD (2.54mm)(14.2mm) (15.2mm) 9 poles for 8 X .100" .874" .945" SMCD & DPS8 (2.54mm) (22.2mm) (24mm) 11 poles for 10 X .079" .874" .945" SMCD & DPS8 (2.00mm) (22.2mm) (24mm) 11 x .100" 1.200" 1.300" 12 poles for **DPS9 & DPS10** (2.54mm) (30.5mm) (33mm)

ORDER FORMAT:

Make selections shown below boxes for complete connector model number.



Example of complete model no.: B11LS