

## **DPS8 SERIES MINIATURE PUSHWHEEL SWITCHES**





#### **FEATURES**

Lower cost miniature pushwheel switches with large visible readout characters

see truth tables

- Bi-directional snap action detent pushbutton mechanism
- Black housing and drum with white printing
- Gangable rear mounting models with spacers and side covers
- Gold wiping action contacts
- PC board options include solderable lands

n	D	C	Ω	C	D	E			C	١т		N	9
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Panel mounting hole:

Height .709"(18mm) Width .315"(8mm)

Installed depth with pc board:

Short 1.260"(32mm) Long 1.614"(41mm)

Insertion from front no Insertion from rear yes

10

**CODES** 

Code positions marking 0-9 see truth tables 111 Decimal 10 0-9 131 BCD 10 see truth tables 0-9137 BCD comp 10 see truth tables 141 BCD + comp 10 0-9 see truth tables 16 0-9, A-F(0-15) see truth tables 301 Hexadecimal

400 change-over **ELECTRICAL DATA** 

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

Contact resistance (type AK): less than 100 mOhm

+,-,+,-,etc..

**TECHNICAL DATA** 

Operating temperature range: -20°C to 80°C Electric life, min. switching cycles 1,000,000 Actuation force, approx (oz.): 14

Weight, approx. (grams): 4
Character height: 10 digit .193" (4.9mm)

16 digit .134" (3.4mm) Audible click yes

Vibration DIN EN 60068-2-6 yes Shock DIN EN 60068-2-27 yes **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

 $2 = black \ 3 = white \ 2.2.3$ 

Other special features are available upon

request including:

Factory or customer set stops (10 digit models)

LED illumination (transparent drum)

Red digits
Decimal point

Special codes or printing

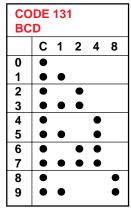
Gray housing

See sockets at end of Pushwheel section.



# **DPS8 SERIES MINIATURE PUSHWHEEL SWITCHES**

#### **TRUTH TABLES**



C 1 2 4 8  0	CODE 137 BCD COMP.										
1		С	1	2	4	8					
2	0	•	•	•	•	•					
4	1	•		lacktriangle	lacktriangle	lacktriangle					
4	2	•	•		•	•					
5 • • • 6 • • 7 • • 8 • • •		•			lacktriangle	lacktriangle					
7     •     •       8     •     •     •	4	•	•	•		•					
7     •     •       8     •     •     •	5	•		•		•					
8 • • •	6	•	•			•					
8 • • •	7	•				lacktriangle					
9 • • •	8	•	•	•	•						
	9	•		•	•						

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

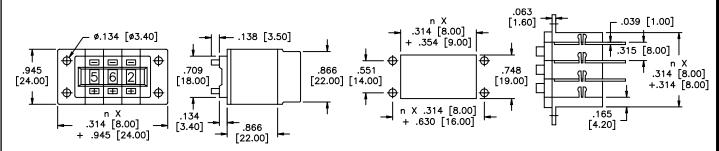
CO	CODE 301									
HE	HEXADECIMAL									
	1	2	4	8	С					
0					C • • • • • • • • • • • • • • • • • • •					
1	•				•					
1 2 3		•			•					
3	•	•			•					
4 5			•		•					
5	•		•		•					
6 7		•	•		•					
7	•	•	lacktriangle		•					
8				•	•					
9	•			•	•					
Α		•		•	•					
B C	•	•		lacktriangle	•					
С			•	•	•					
D	•		•	•	•					
E		•	•	•						
F	•	•	•	•	•					

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

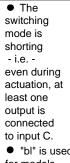
	CODE 141 BCD + COMP.										
	C 1	2	4	8	<u>1</u>	2	4	8			
0	•				•	•	•	•			
1	• •					•	•	•			
2	•	•			•		•	•			
	• •	•					•	•			
4 5	•		•		•	•		•			
	• •		•			•		•			
6	•	•	•		•			•			
7	• •	•	•					•			
8	•			•	•	•	•				
9	• •			•		•	•				

### **MECHANICAL OUTLINE WITH PANEL CUT-OUT & MOUNTING**

n = number of switches

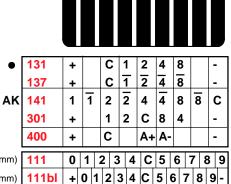


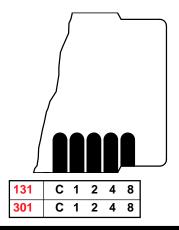
#### **PIN CONNECTIONS**

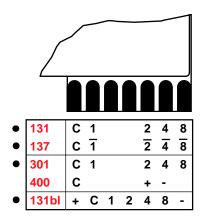




Pitch .079"(2mm) 111
Pitch .067"(1.7mm) 111

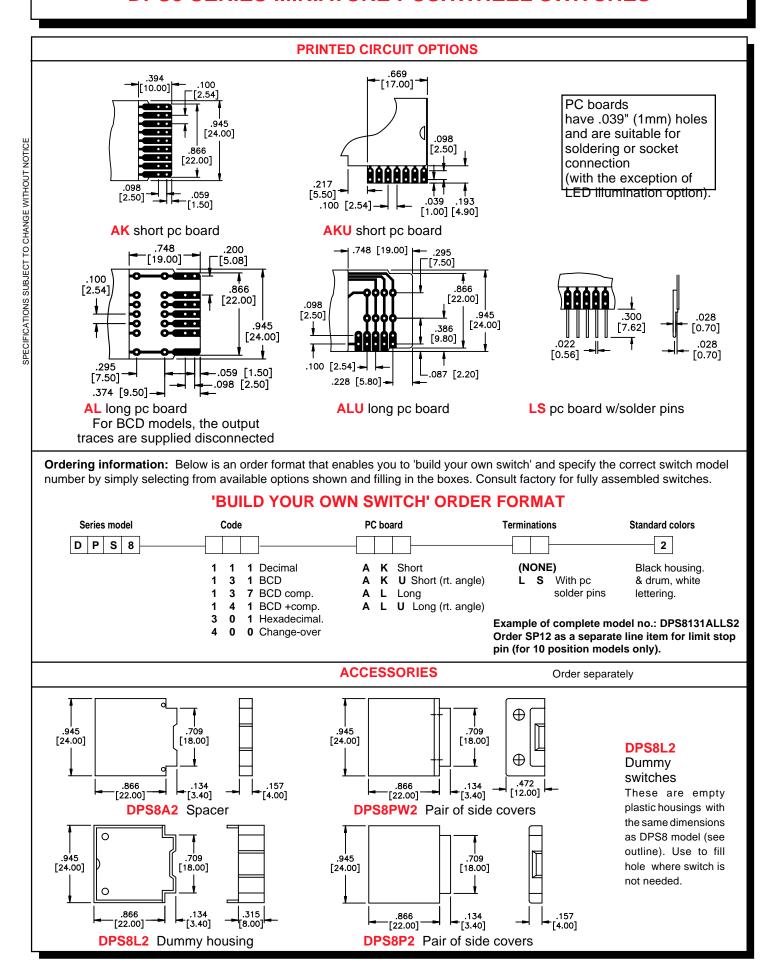








## **DPS8 SERIES MINIATURE PUSHWHEEL SWITCHES**



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SMCD137AK SP1.5 DPS8111AK2 TW01RED14 TW01BLK14 84212014 84212013 HTWF-1A12A21 301419100 302109002

302329N00 311100001 312100100 312300000 332300003 337100000 342300001 311100000 312100000 313100000 313110003

321400100 322300000 323100000 332100100 333100110 347100000 301119000 303109101 332710P00