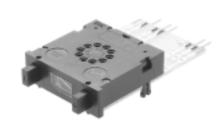


DPS10 SERIES PUSHWHEEL SWITCHES





FEATURES

.394"(10mm) wide 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 front mounting models with spacers and side covers
- Gold wiping action contacts
- PC board options include solderable lands

DPS ₁	0 0	DEC	IEIC /	TIO	SIV
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Panel mounting hole:

Height 1.300"(33mm) Width 3.394"(10mm)

Installed depth with pc board:

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

Insertion from front yes
Insertion from rear no

CODES

Code positions marking 111 Decimal 10 0-9 see truth tables 131 BCD 10 0 - 9see truth tables 0-9 137 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 307 Hexadec comp 16 0-9, A-F(0-15) see truth tables

ELECTRICAL DATA

400 change-over

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 greater than 1,000,000

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

10

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 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.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



DPS10 SERIES PUSHWHEEL SWITCHES

TRUTH TABLES

CC BC	DE D	131	I		
	С	1	2	4	8
0	•				
1	•	•			
2	•		•		
3	•	•	•		
4 5	•			•	
	•	ullet		lacktriangle	
6	•		•	•	
7	•	•	•	•	
8	•				•
9	•	•			•

CODE 137 BCD COMP.										
	С	1	2	4	8					
0	•	•	•	•	•					
1	•		lacktriangle	lacktriangle	lacktriangle					
2 3	•	•		•	•					
	•			lacktriangle	•					
4	•	•	•		•					
5	•		•		•					
6	•	•			•					
7	•				lacktriangle					
8	•	•	•	•						
9	•		•	•						
		_								

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

	DE XAI			AL	
	1	2	4	8	С
0					•
1	•				•
2		•			• • • • • • • • • • • • • • • • • • • •
3	•	lacktriangle			•
4			•		•
5	•		•		•
6		•	•		•
7	•	•	•		•
8				•	•
9	•			•	•
Α		•		lacktriangle	lacktriangle
В	•	•		•	•
С			•	•	•
D	•		•	•	•
Е		•	•	•	•
F	•	•	•	•	•

CODE 307											
HEXADEC. COMP.											
	С	1	2	4	8						
0	•	•	•	•	•						
0 1	•		•	•							
2	•	•		•	•						
	•			•	•						
4 5	•	•	•		•						
	•		•								
6		•			•						
7	•				•						
8		•	•	•							
9	•		•	•							
Α	•	•		•							
В	•			•							
A B C D	•	•	•								
D			•								
E	•	•									
F											

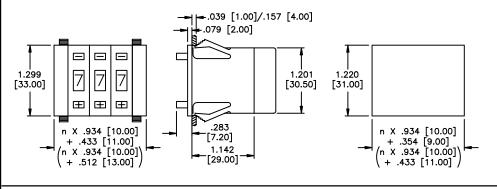
	CODE 111 DECIMAL										
	С	0	1	2	3	4	5	6	7	8	9
0	•	•									
1	•		•								
2	•			•							
3	•				•						
4	•					•					
5	•						•				
6	•							•			
7	•								•		
8	•									•	
9	•										•

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

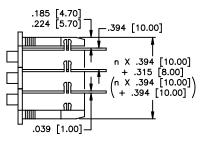
MECHANICAL OUTLINE WITH PANEL CUT-OUT & MOUNTING

n = number of decades

Dimensions in brackets apply when **DPS910PB2** side covers are used.



AK



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 LED illumination only.



	131	+	1						C	Ö		4	-
	137	+	1	2					С	8		4	-
	141	+		2	4	2	С	8	1	1	8	4	-
•	301	+	1	2					С	8		4	-
•	307	+	1	2					С	8		4	-
	400	+	С						A-	A+			-
	111		0	1	2	3	С	4	5	6	7	8	9

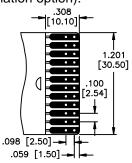
111bl + C 0 1 2 3 4 5 6 7 8 9 - Pitch .079"(2mm)



DPS10 SERIES PUSHWHEEL SWITCHES

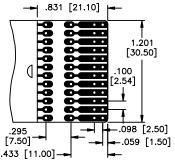
PRINTED CIRCUIT OPTIONS

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



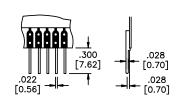
AK short pc board

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



AL long pc board

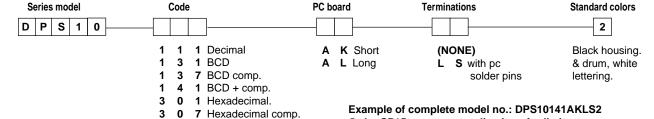
Allows customer to add resistors, diodes, etc.



LS pc 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



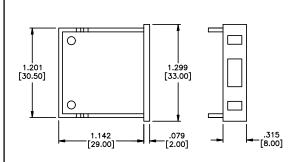
0 Change-over

ACCESSORIES Order separately

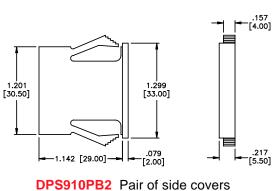
pin (for 10 position models only).

Order SP15 as a separate line item for limit stop

.197 [5.00]

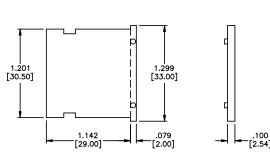


DPS10L2 Dummy housing



1.201 [30.50] 1.299 [33.00] —1.1**4**2 [29.00]-

DPS910P2 Pair of side covers



DPS910A2 Spacer

DPS10L2 Dummy switches

These are empty plastic housings with the same dimensions DPS10 model (see outline). Use to fill hole where switch is not needed.