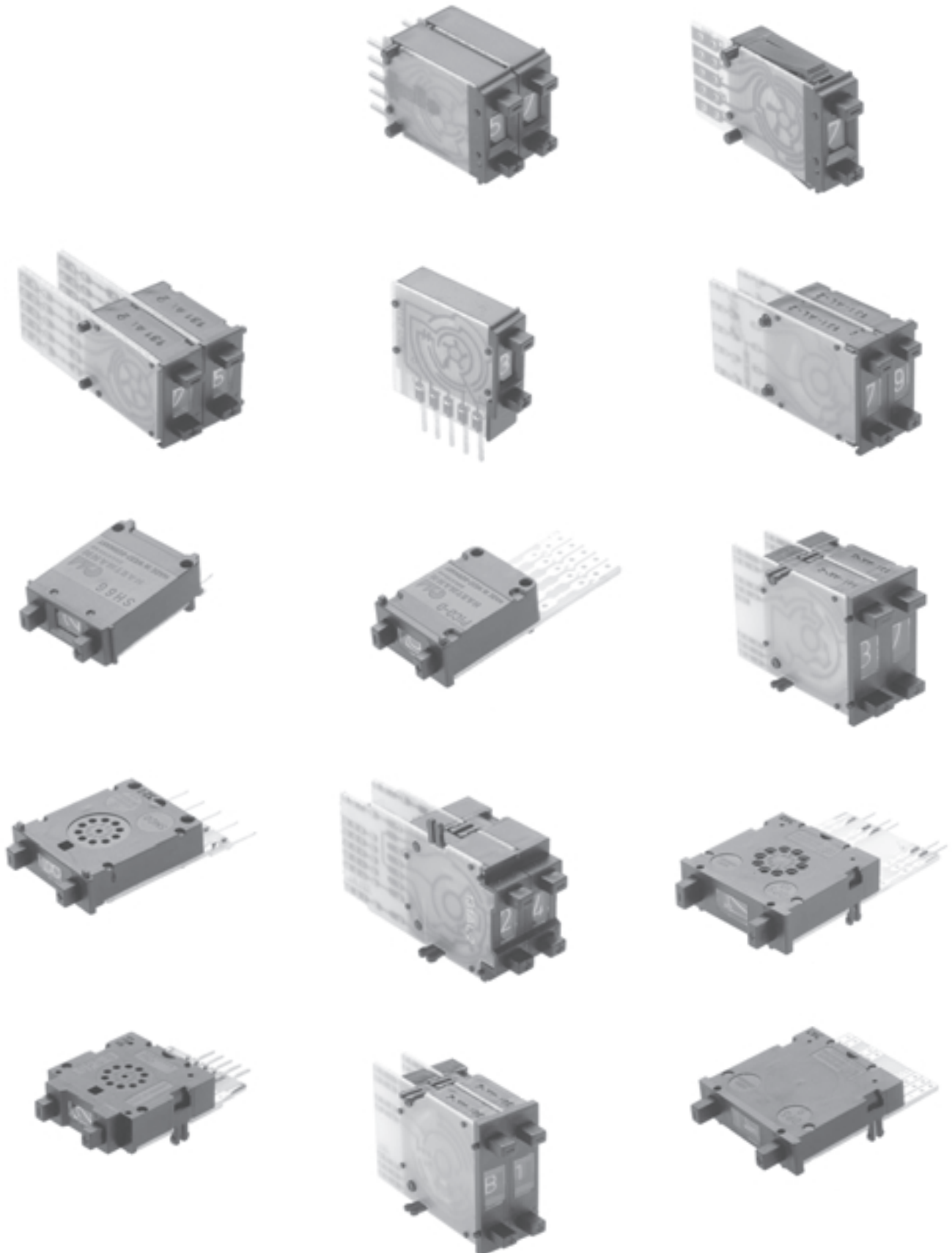


# PUSHWHEEL SWITCHES

SEE PUSHWHEEL SWITCH SELECTION GUIDE ON NEXT PAGE

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



# PUSHWHEEL SWITCHES

PUSHWHEEL SWITCH SELECTION GUIDE: This section contains an extensive variety of pushwheel switches with numerous options and accessories. To facilitate easy selection of the desired switch for your application, this guide lists the various Series with some key selection parameters.

**New!**

<b>SERIES</b>	<b>SCSI</b>	<b>SH6/6G/6S</b>	<b>PICOD</b>	<b>SMCD</b>	<b>DPS8</b>	<b>DPS9</b>	<b>DPS10</b>
<b>PAGE(S)</b>	<b>J3-J4</b>	<b>J5-J7</b>	<b>J8-J10</b>	<b>J11-J13</b>	<b>J14-J16</b>	<b>J17-J19</b>	<b>J20-J22</b>
Panel mounting hole: Height	.562"	.590"	.590"	.945"	.709"	1.300"	1.300"
Width	.425"	.236"	.300"	.315"	.315"	.315"	.394"
Insertion from front	x	x	x	x		x	x
Insertion from rear		x	x	x	x		
<b>CODES</b> positions							
111 decimal 10			x	x	x	x	x
131 BCD 8	x						
131 BCD 10	x	x	x	x	x	x	x
137 BCD comp 10		x	x	x	x	x	
141 BCD+comp 10				x	x	x	
301 hexadecimal 16			x	x	x	x	x
307 hex.comp. 16	x		x			x	x
400 change-over 10		x	x	x	x	x	x
<b>MISC. ELECTRICAL</b>							
Contact load, static (max.):	0.5 A	0.5 A	0.5 A	1 A	1 A	1 A	1 A
Electric life, min. switching cycles:	10,000	100,000	100,000	1,000,000	1,000,000	1,000,000	1,000,000

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Sockets for pushwheel switches - see page J23.

# New! SCSI SERIES SUBMINIATURE PUSHWHEEL SWITCHES



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## FEATURES

- The smallest panel mounting pushwheel switches available .
- Designed for SCSI applications.
- ESD protection up to 8KV.
- Integrated front mounting models.
- Recessed actuator buttons.
- P.C. board options include solderable lands or a selection of headers.

## SCSI SPECIFICATIONS

Panel mounting hole:	
Height	.562"(14.3mm)
Width	.425"(10.8mm)
Installed depth with p.c. board:	.906"(23mm)
Insertion from front	yes
Insertion from rear	no

## CODES

Code	positions	marking	
131 BCD	8	0-7	see truth tables
131 BCD	10	0-9	see truth tables
301	16	0-9,A-F	see truth tables

## ELECTRICAL DATA

Operating voltage:	40 V max.
Contact load, static:	0.5 A max.
Contact load, dynamic:	100 mA max.
Contact resistance (type AK):	less than 120 mOhm
ESD protection:	8KV max.

## TECHNICAL DATA

Operating temperature range:	-20°C to 80°C
Electric life, min. switching cycles	10,000
Actuation force, approx (oz.):	18
Character height, 10 position:	.122"(3.1mm)
Character height, 16 position:	.094"(2.4mm)
Audible click	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
- Cable harnessing
- Red digits
- Decimal point
- Special codes or printing

# New! SCSI SERIES SUBMINIATURE PUSHWHEEL SWITCHES

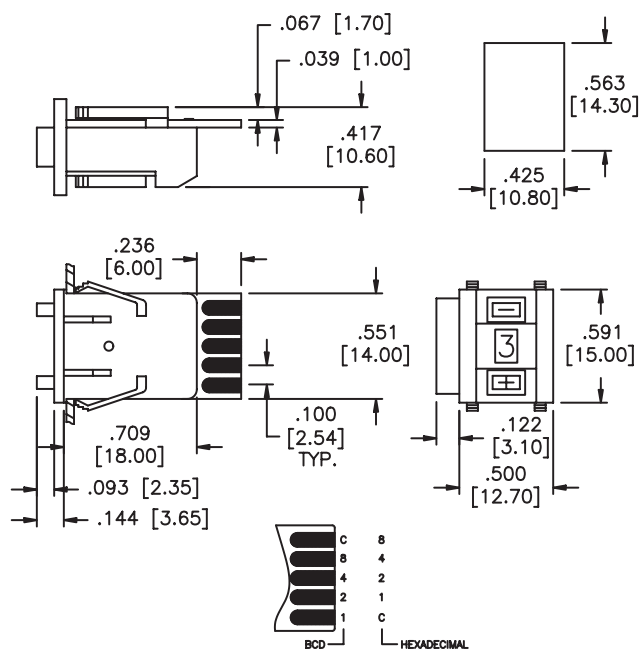
## TRUTH TABLES

CODE 131 BCD (10 positions)					
	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●		●	
6	●	●	●	●	
7	●	●	●	●	
8	●				●
9	●	●			●

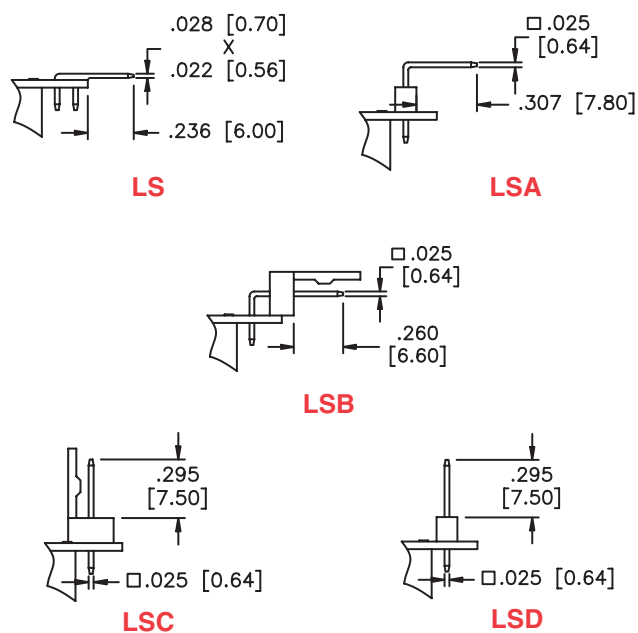
CODE 131 BCD (8 positions)					
	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●		●	
6	●	●	●	●	
7	●	●	●	●	

CODE 301 HEXADECIMAL					
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●	●	●		●
6	●	●	●	●	●
7	●	●	●	●	●
8				●	●
9	●			●	●
A		●	●	●	●
B	●	●		●	●
C			●	●	●
D	●	●	●	●	●
E	●	●	●	●	●
F	●	●	●	●	●

## MECHANICAL OUTLINE WITH PANEL CUT-OUT



## HEADER OPTIONS

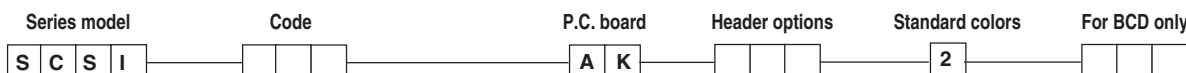


SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

J

**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.

### 'BUILD YOUR OWN SWITCH' ORDER FORMAT



1 3 1 BCD (all models)  
3 0 1 Hexadecimal

Short

(NONE)

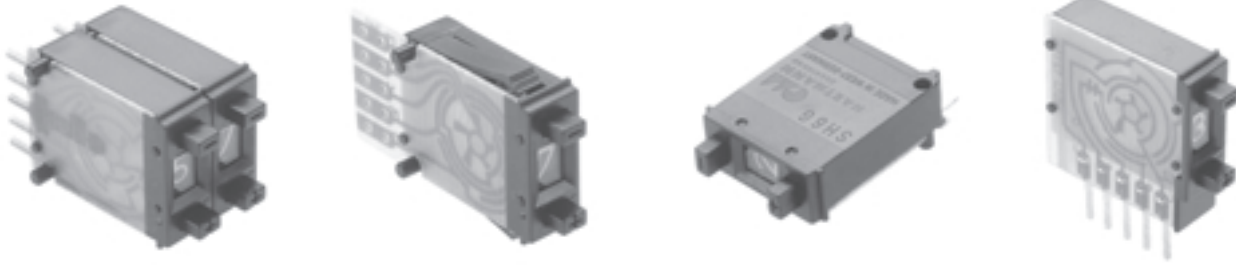
- L S
- L S A
- L S B
- L S C
- L S D

Black housing and drum.  
White lettering

(NONE)  
B 0 7 Specify for 8 position BCD model

Example of complete model no.: SCS1131AKLS2B07

# SH6 SERIES SUBMINIATURE PUSHWHEEL SWITCHES



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## FEATURES

- The smallest panel mounting pushwheel switches available .
- Snap action detent with audible click.
- Black housing & drum with white printing.
- Gangable front and rear mounting models.
- Gold wiping action contacts.
- P.C. board options include solderable lands, fingers or p.c. solder pins.

## SH6, SH6G & SH6S SPECIFICATIONS

Panel mounting hole:	
Height	.590"(15mm)
Width	.236"(6mm)
Installed depth with p.c. board:	
Short	.925"(23.5mm)
Long	1.213"(30.8mm)
Insertion from front	yes
Insertion from rear	yes

## CODES

Code	positions	marking	
131 BCD	10	0-9	see truth tables
137 BCD comp	10	0-9	see truth tables
400 change-over	10	+,-,+,-,etc..	see truth tables

## ELECTRICAL DATA

Operating voltage:	40 V max.
Contact load, static:	0.5 A max.
Contact load, dynamic:	100 mA max.
Contact resistance (type AK):	less than 100 mOhm

## TECHNICAL DATA

Operating temperature range:	-20°C to 80°C
Electric life, min. switching cycles	100,000
Actuation force, approx (oz.):	14
Weight, approx. (grams):	1.5
Character height:	.122"(3.1mm)
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  
 Red digits  
 Decimal point  
 Special codes or printing

J

# SH6 SERIES SUBMINIATURE PUSHWHEEL SWITCHES

## TRUTH TABLES

### ALL MODELS CODE 131 BCD

	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●		●	
6	●		●	●	
7	●	●	●	●	
8	●				●
9	●	●			●

### SH6 & SH6G CODE 137 BCD COMP.

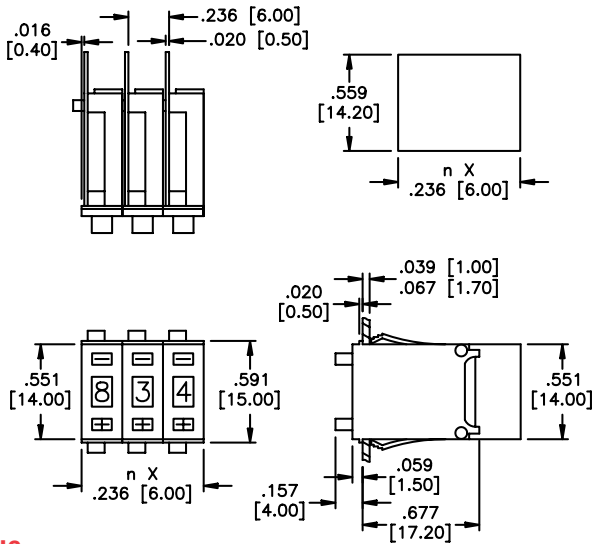
	C	1	2	4	8
0	●	●	●	●	
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●	●	●		

### SH6 & SH6G CODE 400 CHANGE-OVER

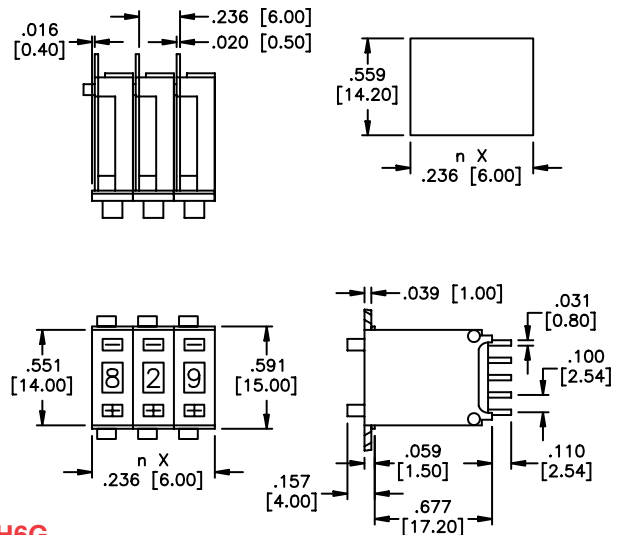
	C	A+	A-
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●

## MECHANICAL OUTLINES WITH PANEL CUT-OUTS

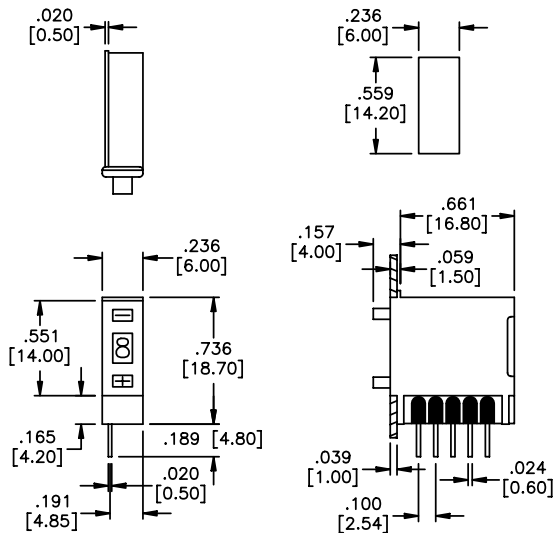
n = number of switches



SH6

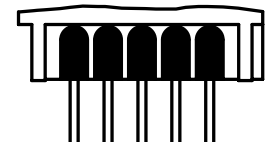


SH6G



SH6S131AKULS2

## PIN CONNECTIONS



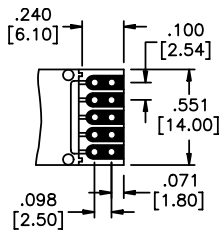
• 131	1	2	4	8	C
• 137	2	8	C	1	4
• 400	-	+	C		

- The switching mode is shorting - i.e. - even during actuation, at least one output is connected to input C.

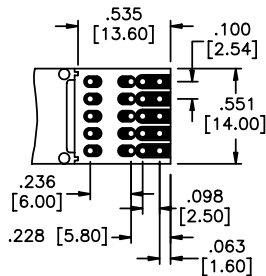
# SH6 SERIES SUBMINIATURE PUSHWHEEL SWITCHES

## PRINTED CIRCUIT OPTIONS

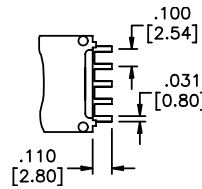
P.C. boards have .039" (1mm) holes and are suitable for soldering or socket connection.



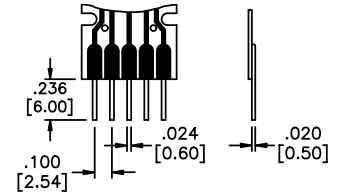
**AK**  
short p.c. board



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

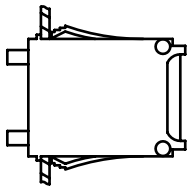


**AKK**  
p.c. board w/fingers

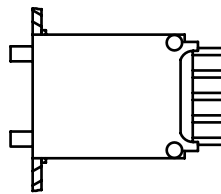


**AKLS or ALLS**  
p.c. board w/solder pins

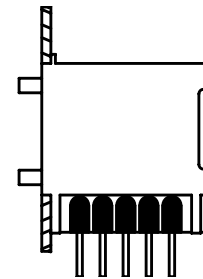
## MOUNTING INFORMATION



Front mounting (**SH6**)



Rear mounting (**SH6** and **SH6G**)



Rear mounting (**SH6S**)

**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

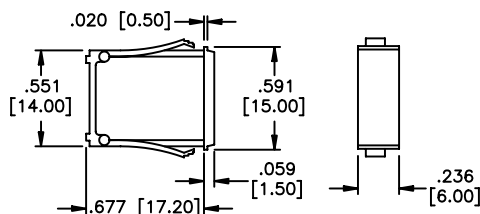
Series model	Code	P.C. board	Standard colors
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>S H 6</b>	<b>1 3 1</b> BCD (all models)	<b>A K</b> Short	Black housing and drum.
<b>S H 6 G</b>	<b>1 3 7</b> BCD comp. (SH6 & SH6G only)	<b>A L</b> Long	White lettering
<b>S H 6 S*</b>	<b>4 0 0</b> Change-over (SH6 & SH6G only)	<b>A K K</b> w/fingers	
(see outline dwgs.)		<b>A K L S</b> Short w/p.c. solder pins	
		<b>A L L S</b> Long w/p.c. solder pins	
		<b>A K U L S</b> Short w/rt. angle solder pins	

\* For this model, only **SH6S131AKULS2** available, see outline drawing.

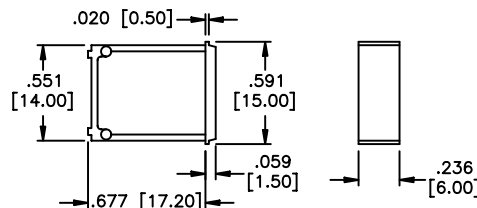
Example of complete model no.: **SH6131AK2**

## ACCESSORIES

Order separately



**SH6L2** Dummy housing



**SH6GL2** Dummy housing

### SH6L2 or SH6GL2

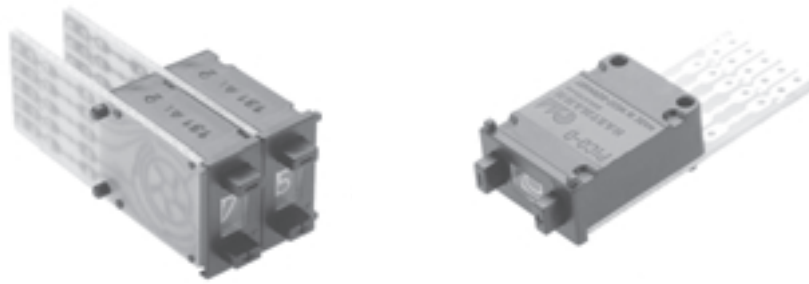
#### Dummy switches

These are empty plastic housings with the same dimensions as SH6 & SH6G models (see outlines). Use to fill hole where switch is not needed.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

J

# PICOD SERIES SUBMINIATURE PUSHWHEEL SWITCHES



## FEATURES

- Small panel mounting pushwheel switches.
- Models available with ESD protection - consult factory.
- Snap action detent with audible click.
- 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.

## PICOD SPECIFICATIONS

Panel mounting hole:	
Height	.590"(15mm)
Width	.300"(7.62mm)
Installed depth with p.c. board:	
Short	.945"(24mm)
Long	1.358"(34.5mm)
Insertion from front	yes
Insertion from rear	no

## CODES

Code	positions	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
301 Hexadecimal	16	0-9, A-F(0-15)	see truth tables
307 Hexadec.Comp.	16	0-9, A-F(0-15)	see truth tables
400 change-over	10	+,-,+,-,etc..	see truth tables

## ELECTRICAL DATA

Operating voltage:	40 V max.
Contact load, static:	0.5 A max.
Contact load, dynamic:	100 mA max.
Contact resistance (type AK):	less than 100 mOhm

## TECHNICAL DATA

Operating temperature range:	-20°C to 60°C
Electric life, min. switching cycles	100,000
Actuation force, approx (oz.):	11
Weight, approx. (grams):	2
Character height:	10 digit .122" (3.1mm)
	16 digit .094" (2.4mm)
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	2,2,3
2 = black 3 = white	

Other special features are available upon request including:

- Factory set stops
- Red digits
- Decimal point
- Special codes or printing
- Gray housing
- See sockets at end of Pushwheel section.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

J



# PICOD SERIES SUBMINIATURE PUSHWHEEL SWITCHES

## TRUTH TABLES

CODE 131 BCD					
	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●			●
6	●	●	●	●	
7	●	●	●	●	●
8	●				●
9	●	●			●

CODE 137 BCD COMP.					
	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●	●	●	●	

CODE 400 CHANGE-OVER			
	C	A+	A-
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●

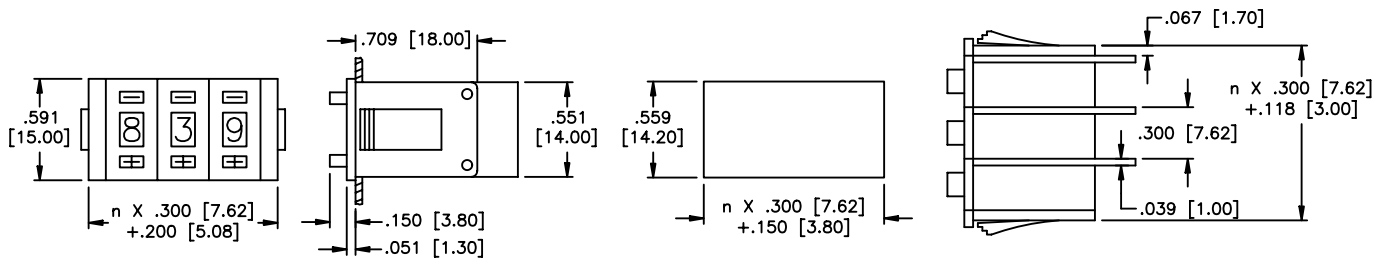
CODE 301 HEXADECIMAL					
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●	●	●	●
B	●	●	●	●	●
C			●	●	●
D	●	●	●	●	●
E		●	●	●	●
F	●	●	●	●	●

CODE 307 HEXADEC. COMP.					
	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●	●	●	●	
A	●	●		●	
B	●		●		
C	●	●	●		
D	●		●		
E	●	●			
F	●				

CODE 111 DECIMAL											
	C	0	1	2	3	4	5	6	7	8	9
0	●	●									
1	●		●								
2	●			●							
3	●				●						
4	●					●					
5	●						●				
6	●							●			
7	●								●		
8	●									●	
9	●										●

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

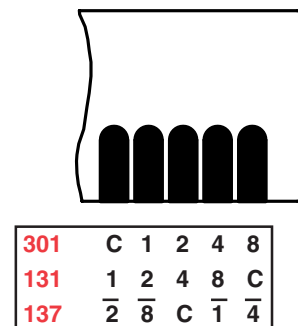
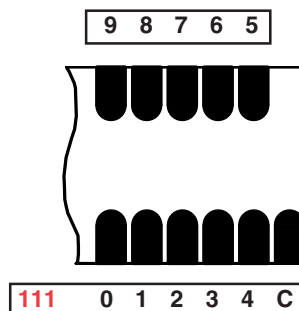
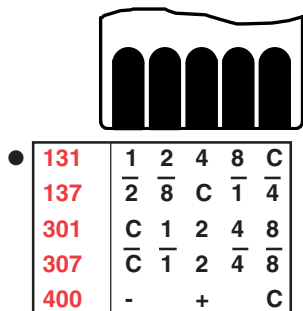
## MECHANICAL OUTLINE WITH PANEL CUT-OUT & MOUNTING n = number of switches



## PIN CONNECTIONS

307 code available with **AK** p.c. option only.  
111 code available with **AL** p.c. option only.

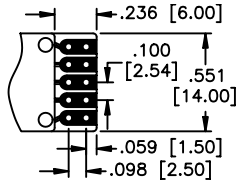
● The switching mode is shorting - i.e. - even during actuation, at least one output is connected to input C.



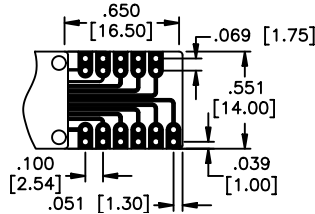
# PICOD SERIES SUBMINIATURE PUSHWHEEL SWITCHES

## PRINTED CIRCUIT OPTIONS

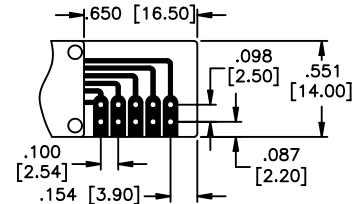
P.C. boards have .039" (1mm) holes and are suitable for soldering or socket connection (with the exception of LED illumination option).



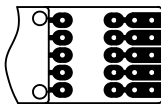
**AK** short p.c. board



**AL** long p.c. board for decimal version (solder terminal)

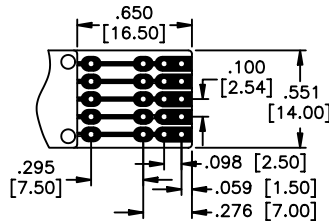


**ALU** long p.c. board

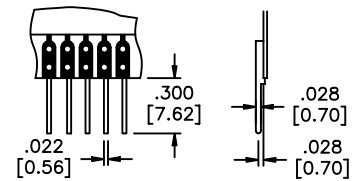


**ALD** long (interrupted) p.c. board

Dimensions are the same as **AL**.  
Space allows customer to add resistors, diodes, ect.



**AL** long p.c. board



**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

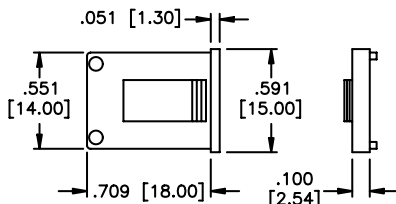
Series model	Code	P.C. board	Terminations	Standard colors
P I C O D	<input type="text"/>	<input type="text"/>	<input type="text"/>	2
	1 1 1 Decimal 1 3 1 BCD 1 3 7 BCD comp. 3 0 1 Hexadecimal 3 0 7 Hexadecimal comp. 4 0 0 Change-over	A K Short A L Long A L U Long (rt. angle) A L D Long (interrupted)	(NONE) L S with p.c. solder pins	Black housing & drum, white lettering.

Note: For code 111, only model **PICOD111AL2** is available.

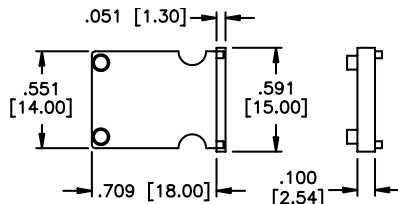
Example of complete model no.: **PICOD131AL2**

## ACCESSORIES

Order separately



**PICODP2** Pair of side covers

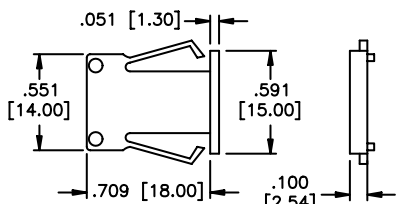


**PICODA2** Spacer

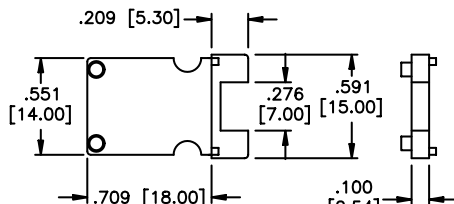
### **PICODL2** Dummy switches

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

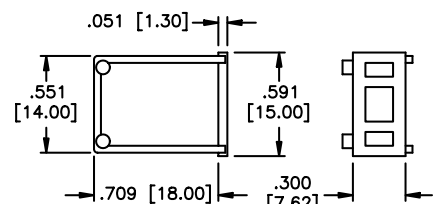
**PICORD** Switches for rear mounting available on request.



**PICODPK2** Pair of side covers

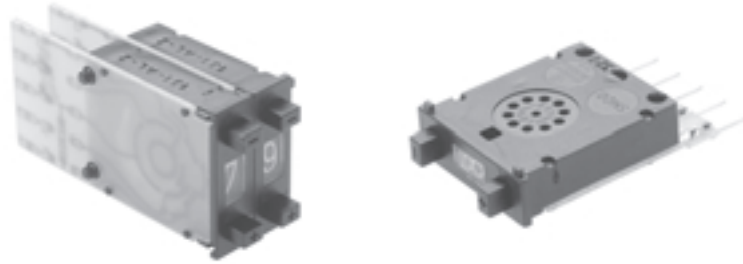


**PICODAH2** Spacer



**PICODL2** Dummy housing

# SMCD SERIES MINIATURE PUSHWHEEL SWITCHES



## FEATURES

- Miniature pushwheel switches with large visible readout characters.
- Models available with ESD protection - consult factory.
- Bi-directional snap action detent pushbutton mechanism.
- Black housing and drum with white printing.
- Gangable front and rear mounting models with spacers and side covers.
- Gold wiping action contacts.
- P.C. board options include solderable lands.

## SMCD SPECIFICATIONS

Panel mounting hole:	
Height	.945"(24mm)
Width	.315"(8mm)
Installed depth with p.c. board:	
Short	1.260"(32mm)
Long	1.654"(42mm)
Insertion from front	yes
Insertion from rear	yes

## CODES

Code	positions	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
301 Hexadecimal	16	0-9, A-F(0-15)	see truth tables
400 change-over	10	+,-,+,-,etc..	see truth tables

## 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

## 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 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)  
 L.E.D. illumination (transparent wheel)  
 Red digits  
 Decimal point  
 Special codes or printing  
 Gray housing  
 See sockets at end of Pushwheel section.

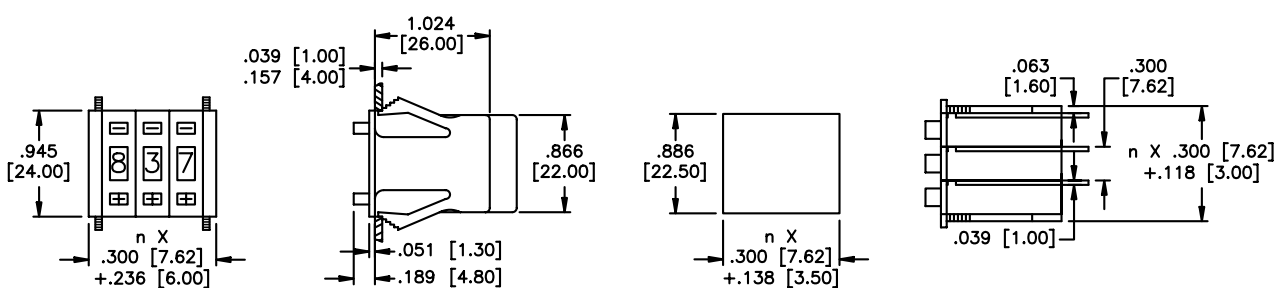
# SMCD SERIES MINIATURE PUSHWHEEL SWITCHES

## TRUTH TABLES

CODE 131 BCD						CODE 137 BCD COMP.						CODE 400 CHANGE-OVER				CODE 301 HEXADECIMAL						CODE 111 DECIMAL												
	C	1	2	4	8		C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$		C	A+	A-		1	2	4	8	C		C	0	1	2	3	4	5	6	7	8	9	
0	●					●	●	●	●	●		+	●	●		0					●	0	●	●										
1	●	●				●		●	●	●		-	●		●	1	●				●	1	●											
2	●		●			●	●		●	●		+	●	●		2		●			●	2		●										
3	●	●	●			●			●	●		-	●		●	3	●	●			●	3		●										
4	●			●		●	●	●		●		+	●	●		4			●		●	4			●									
5	●	●			●	●		●		●		-	●		●	5	●		●	●	●	5	●			●								
6	●		●	●		●	●			●		+	●	●		6		●	●	●	●	6	●					●						
7	●	●	●	●		●	●			●		-	●		●	7	●	●	●	●	●	7	●						●					
8	●				●	●	●	●	●			+	●	●		8				●	●	8	●								●			
9	●	●			●	●		●	●			-	●		●	9	●			●	●	9	●									●		
A			●												A		●			●	●	A												
B		●	●												B	●	●			●	●	B												
C				●											C			●		●	●	C												
D					●										D	●		●		●	●	D												
E			●	●											E		●	●		●	●	E												
F		●	●	●	●										F	●	●	●	●	●	●	F												

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## MECHANICAL OUTLINE WITH PANEL CUT-OUT & MOUNTING n = number of switches



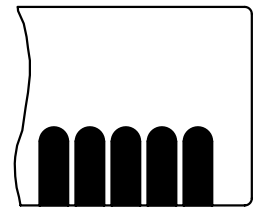
## PIN CONNECTIONS

● 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.

●	<b>131</b>	1	2	4	8	C
	<b>131bl</b>	+ 1	8	4	2	C -
	<b>137</b>	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$	C
	<b>137bl</b>	+ $\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$	C -
	<b>301</b>	1	2	4	8	C
	<b>301bl</b>	+ 1	2	4	8	C -
	<b>400</b>	+	A+	C	A-	-

AK	<b>111</b>	0	1	2	3	4	C	5	6	7	8	9	Pitch .079"(2mm)
	<b>111bl</b>	+ 0	1	2	3	4	C	5	6	7	8	9	Pitch .067"(1.7mm)
		+											
AL	<b>111bl</b>	0	1	2	3	4	C	5	6	7	8	9	Pitch .079"(2mm)

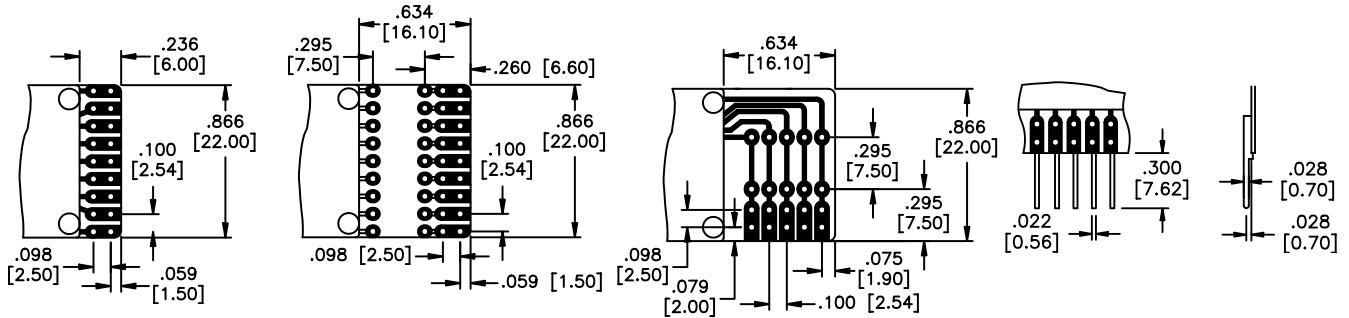


●	<b>131</b>	1	2	4	8	C
	<b>301</b>	1	2	4	8	C

# SMCD SERIES MINIATURE 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

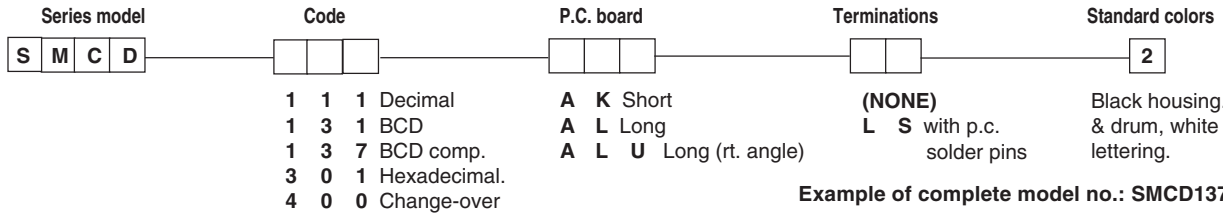
Allows customer to add resistors, diodes, ect.

**ALU** long p.c. board

**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

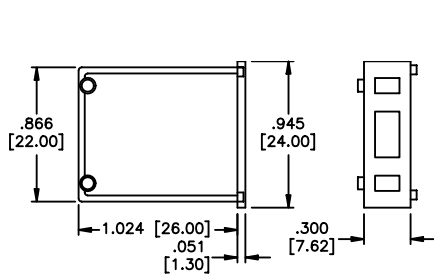


**Example of complete model no.: SMCD137ALLS2**  
**Order SP12 as a separate line item for limit stop pin (for 10 position models only).**

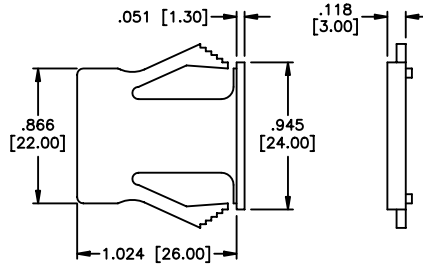
## ACCESSORIES

Order separately

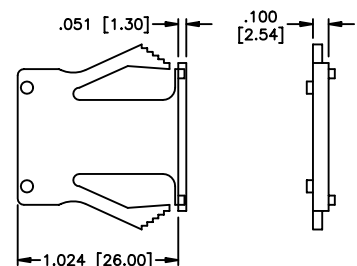
**SMCL2** Dummy switches - These are empty plastic housings with the same dimensions as SMCD model (see outline). Use to fill hole where switch is not needed. **SMCRD2 & SMCRND2** switches for rear mounting available on request.



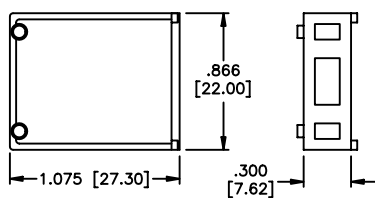
**SMCL2** Dummy housing



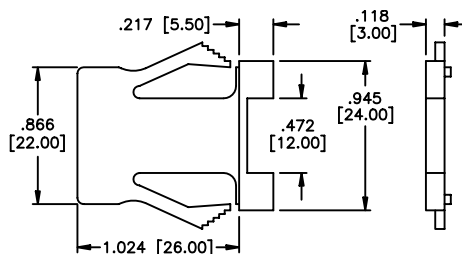
**SMCPK2** Pair of side covers



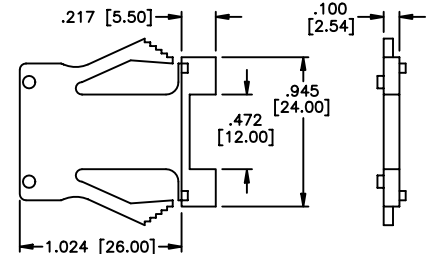
**SMCA2** Spacer



**SMCL2** Dummy housing

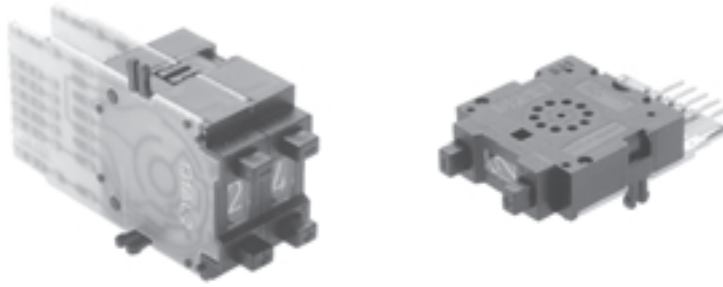


**SMCPK2** Pair of side covers



**SMCA2** Spacer

# DPS8 SERIES MINIATURE PUSHWHEEL SWITCHES



## FEATURES

- Lower cost miniature pushwheel switches with large visible readout characters .
- 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.
- P.C. board options include solderable lands.

## DPS8 SPECIFICATIONS

Panel mounting hole:	
Height	.709"(18mm)
Width	.315"(8mm)
Installed depth with p.c. board:	
Short	1.260"(32mm)
Long	1.614"(41mm)
Insertion from front	no
Insertion from rear	yes

## CODES

Code	positions	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
400 change-over	10	+, -, +, -, etc..	see truth tables

## 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

## 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 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)
- L.E.D. 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

J

# DPS8 SERIES MINIATURE PUSHWHEEL SWITCHES

## TRUTH TABLES

**CODE 131  
BCD**

	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●			●
6	●		●	●	
7	●	●	●	●	
8	●				●
9	●	●			●

**CODE 137  
BCD COMP.**

	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●	●			●
8	●	●	●	●	
9	●		●	●	

**CODE 400  
CHANGE-OVER**

	C	A+	A-
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●

**CODE 301  
HEXADECIMAL**

	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●		●	●
B	●	●		●	●
C			●	●	●
D	●		●	●	●
E		●	●	●	●
F	●	●	●	●	●

**CODE 111  
DECIMAL**

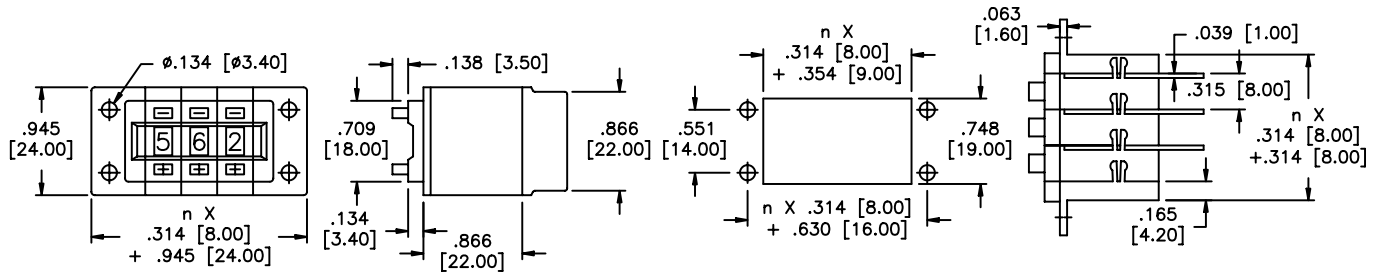
	C	0	1	2	3	4	5	6	7	8	9
0	●	●									
1	●		●								
2	●			●							
3	●				●						
4	●					●					
5	●						●				
6	●							●			
7	●								●		
8	●									●	
9	●										●

**CODE 141  
BCD + COMP.**

	C	1	2	4	8	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●					●	●	●	●
1	●	●				●	●	●	●
2	●		●			●	●	●	●
3	●	●	●			●	●	●	●
4	●			●		●	●	●	●
5	●	●		●		●	●	●	●
6	●		●	●		●	●	●	●
7	●	●	●	●		●	●	●	●
8	●			●	●	●	●	●	●
9	●	●		●	●	●	●	●	●

## MECHANICAL OUTLINE WITH PANEL CUT-OUT & MOUNTING

n = number of switches



## 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.

AK

131	+	C	1	2	4	8	-						
137	+	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$	-						
141	1	$\bar{1}$	2	$\bar{2}$	4	$\bar{4}$	8	$\bar{8}$	C				
301	+	1	2	C	8	4	-						
400	+	C		A+	A-	-	-						
111	0	1	2	3	4	C	5	6	7	8	9		
111bl	+	0	1	2	3	4	C	5	6	7	8	9	-

Pitch .079"(2mm)

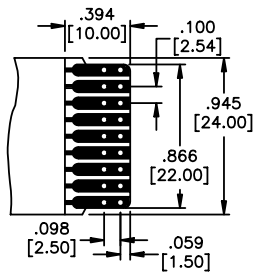
Pitch .067"(1.7mm)

131	C	1	2	4	8
301	C	1	2	4	8

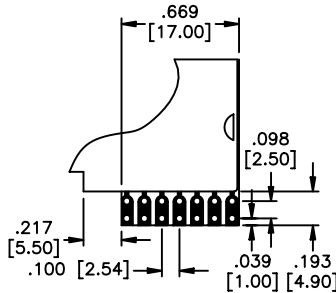
131	C	1	2	4	8		
137	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$		
301	C	1	2	4	8		
400	C		+	-			
131bl	+	C	1	2	4	8	-

# DPS8 SERIES MINIATURE PUSHWHEEL SWITCHES

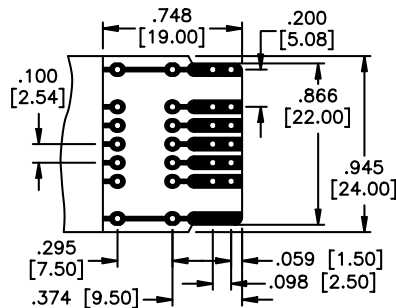
## PRINTED CIRCUIT OPTIONS



**AK** short p.c. board

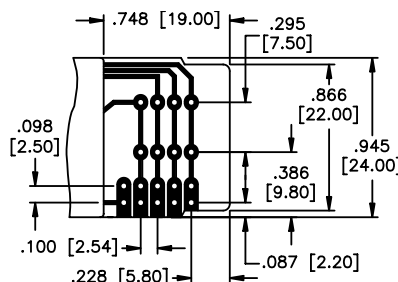


**AKU** short p.c. board

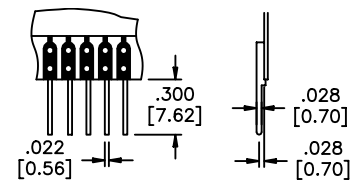


**AL** long p.c. board

For BCD models, the output traces are supplied disconnected



**ALU** long p.c. board



**LS** p.c. board w/solder pins

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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**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.

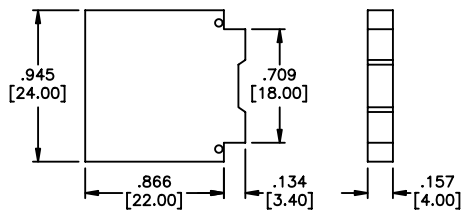
### 'BUILD YOUR OWN SWITCH' ORDER FORMAT

Series model	Code	P.C. board	Terminations	Standard colors
D P S 8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	1 1 1 Decimal	A K Short	(NONE)	Black housing.
	1 3 1 BCD	A K U Short (rt. angle)	L S With p.c. solder pins	& drum, white lettering.
	1 3 7 BCD comp.	A L Long		
	1 4 1 BCD +comp.	A L U Long (rt. angle)		
	3 0 1 Hexadecimal.			
	4 0 0 Change-over			

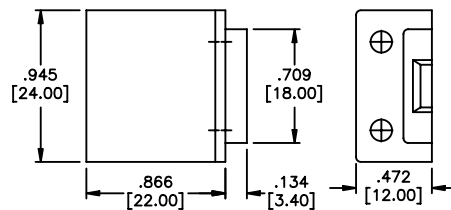
**Example of complete model no.: DPS8131ALLS2**  
Order SP12 as a separate line item for limit stop pin (for 10 position models only).

## ACCESSORIES

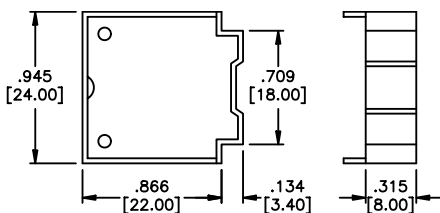
Order separately



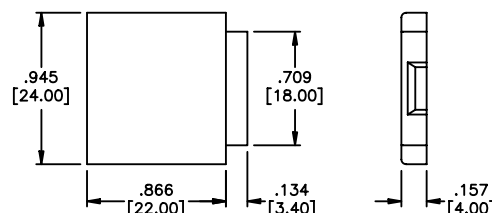
**DPS8A2** Spacer



**DPS8PW2** Pair of side covers



**DPS8L2** Dummy housing



**DPS8P2** Pair of side covers

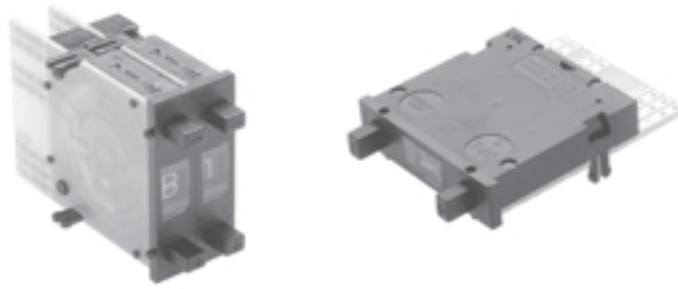
### DPS8L2

#### Dummy switches

These are empty plastic housings with the same dimensions as DPS8 model (see outline). Use to fill hole where switch is not needed.



# DPS9 SERIES PUSHWHEEL SWITCHES



## FEATURES

- **.315"(8mm) wide pushwheel switches with extra 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.**

## DPS9 SPECIFICATIONS

Panel mounting hole:	
Height	1.300"(33mm)
Width	.315"(8mm)
Installed depth with p.c. 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	0-9	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 comp	16	0-9, A-F(0-15)	see truth tables
400 change-over	10	+,-,+,-,etc..	see truth tables

## 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

## 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):	6.5
Character ht: 10 digit - .268" (6.8mm)	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)
- L.E.D. illumination (transparent drum)
- Red digits
- Decimal point
- Special codes or printing
- Gray housing
- See sockets at end of Pushwheel section.

# DPS9 SERIES PUSHWHEEL SWITCHES

## TRUTH TABLES

CODE 131 BCD					
	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●		●	
6	●		●	●	
7	●	●	●	●	
8	●				●
9	●	●			●

CODE 137 BCD COMP.					
	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●		●	●	

CODE 400 CHANGE-OVER			
	C	A+	A-
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●

CODE 301 HEXADECIMAL					
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●		●	●
B	●	●		●	●
C			●	●	●
D	●		●	●	●
E		●	●	●	●
F	●	●	●	●	●

CODE 307 HEXADEC. COMP.					
	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●		●	●	
A	●	●		●	
B	●			●	
C	●	●	●		
D	●		●		
E	●	●			
F	●				

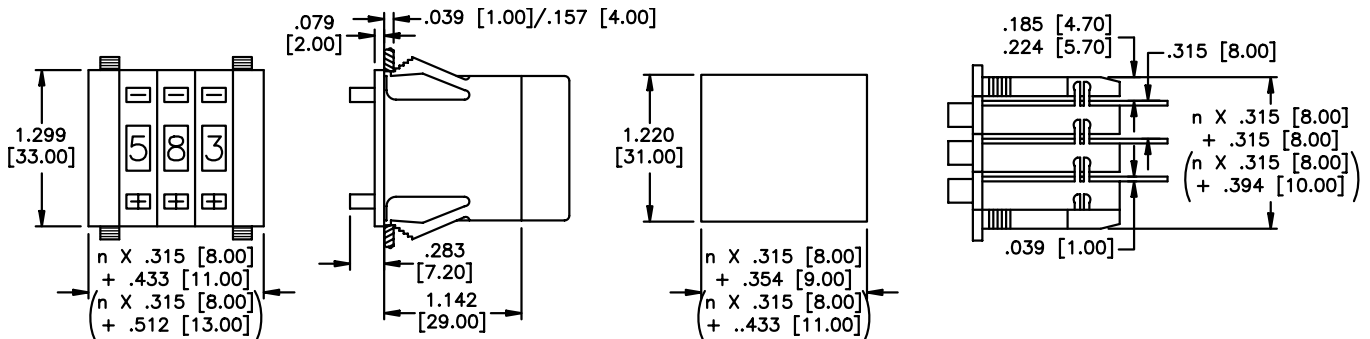
CODE 111 DECIMAL											
	C	0	1	2	3	4	5	6	7	8	9
0	●	●									
1	●		●								
2	●			●							
3	●				●						
4	●					●					
5	●						●				
6	●							●			
7	●								●		
8	●									●	
9	●										●

CODE 141 BCD + COMP.									
	C	1	2	4	8	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
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.

	+	1	2			C	8	4	-
● 131	+	$\bar{1}$	$\bar{2}$			C	$\bar{8}$	$\bar{4}$	-
● 137	+	$\bar{1}$	$\bar{2}$			C	$\bar{8}$	$\bar{4}$	-
● 141	+		2	$\bar{4}$	$\bar{2}$	C	8	1	8
● 301	+	1	2			C	8	4	-
● 307	+	$\bar{1}$	$\bar{2}$			C	$\bar{8}$	$\bar{4}$	-
● 400	+	C				A-	A+		-
● 111		0	1	2	3	C	4	5	6
		7	8	9					

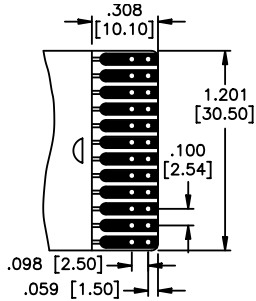
**111bi** + C 0 1 2 3 4 5 6 7 8 9 - Pitch .079" (2mm)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

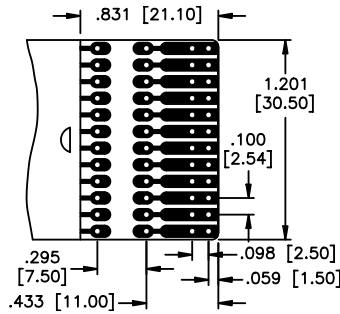
# DPS9 SERIES PUSHWHEEL SWITCHES

## PRINTED CIRCUIT OPTIONS

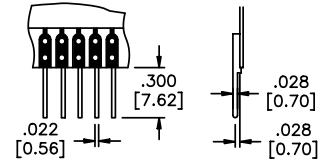
P.C. boards have .039" (1mm) holes and are suitable for soldering or socket connection (with the exception of LED illumination option).



**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.

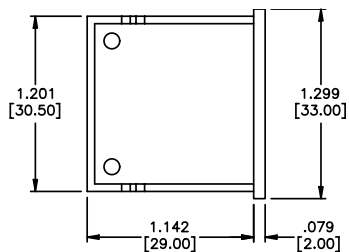
## 'BUILD YOUR OWN SWITCH' ORDER FORMAT

Series model	Code	P.C. board	Terminations	Standard colors
D P S 9				2
	1 1 1 Decimal 1 3 1 BCD 1 3 7 BCD comp. 1 4 1 BCD + comp. 3 0 1 Hexadecimal. 3 0 7 Hexadecimal comp. 4 0 0 Change-over	A K Short A L Long	(NONE) L S with p.c. solder pins	Black housing. & drum, white lettering.

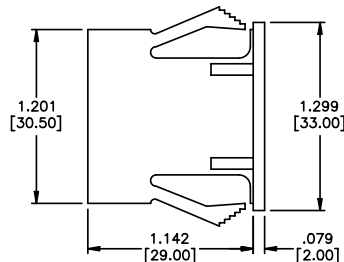
**Example of complete model no.: DPS9141AKLS2**  
Order SP15 as a separate line item for limit stop pin (for 10 position models only).

## ACCESSORIES

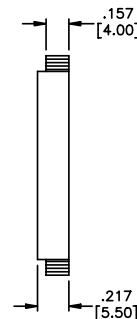
Order separately



**DPS9L2** Dummy housing

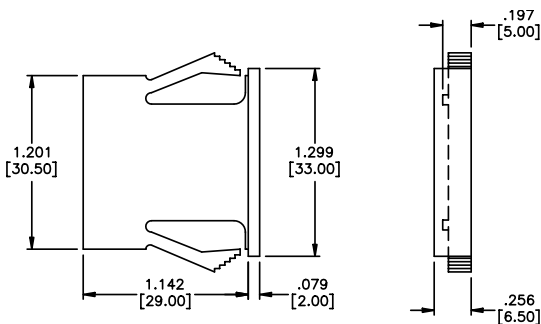


**DPS910P2** Pair of side covers

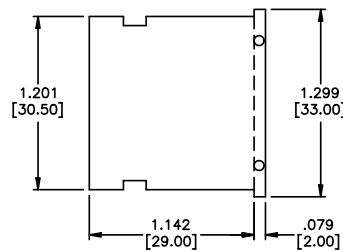


**DPS9L2**  
Dummy switches

These are empty plastic housings with the same dimensions as DPS9 model (see outline). Use to fill hole where switch is not needed.

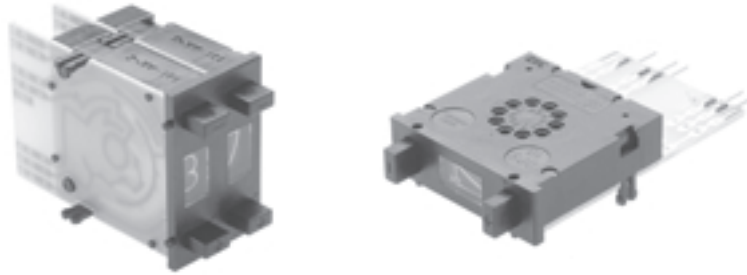


**DPS910PB2** Pair of side covers



**DPS910A2** Spacer

# 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)
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	0-9	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 comp	16	0-9, A-F(0-15)	see truth tables
400 change-over	10	+, -, +, -, etc..	see truth tables

## 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

## 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	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)
- L.E.D. illumination (transparent drum)
- Red digits
- Decimal point
- Special codes or printing
- Gray housing
- See sockets at end of Pushwheel section.

# DPS10 SERIES PUSHWHEEL SWITCHES

## TRUTH TABLES

**CODE 131  
BCD**

	C	1	2	4	8
0	●				
1	●	●			
2	●		●		
3	●	●	●		
4	●			●	
5	●	●		●	
6	●		●	●	
7	●	●	●	●	
8	●				●
9	●	●			●

**CODE 137  
BCD COMP.**

	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●		●	●	

**CODE 400  
CHANGE-OVER**

	C	A+	A-
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●
+	●	●	
-	●		●

**CODE 301  
HEXADECIMAL**

	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●	●	●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●		●	●
B	●	●		●	●
C			●	●	●
D	●		●	●	●
E		●	●	●	●
F	●	●	●	●	●

**CODE 307  
HEXADEC. COMP.**

	C	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	●	●	●	●	●
1	●		●	●	●
2	●	●		●	●
3	●			●	●
4	●	●	●		●
5	●		●		●
6	●	●			●
7	●				●
8	●	●	●	●	
9	●		●	●	
A	●	●		●	
B	●			●	
C	●	●	●		
D	●		●		
E	●	●			
F	●				

**CODE 111  
DECIMAL**

	C	0	1	2	3	4	5	6	7	8	9
0	●	●									
1	●		●								
2	●			●							
3	●				●						
4	●					●					
5	●						●				
6	●							●			
7	●								●		
8	●									●	
9	●										●

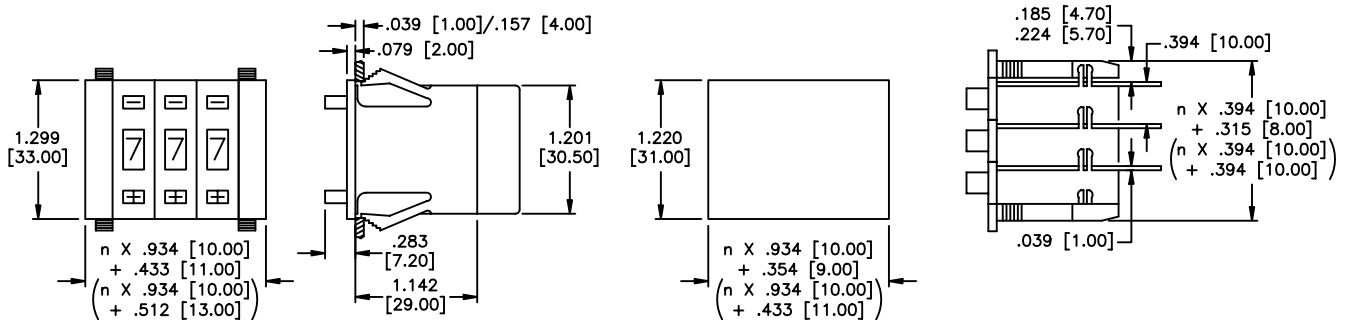
**CODE 141  
BCD + COMP.**

	C	1	2	4	8	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
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.

AK ●

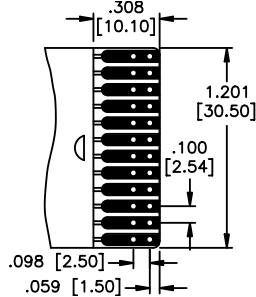
<b>131</b>	+	1	2			C	8	4	-
<b>137</b>	+	$\bar{1}$	$\bar{2}$			C	$\bar{8}$	$\bar{4}$	-
<b>141</b>	+		2	$\bar{4}$	$\bar{2}$	C	$\bar{8}$	1	8
<b>301</b>	+	1	2			C	8	4	-
<b>307</b>	+	$\bar{1}$	$\bar{2}$			C	$\bar{8}$	$\bar{4}$	-
<b>400</b>	+	C				A-	A+		-
<b>111</b>		0	1	2	3	C	4	5	6
		7	8	9					

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

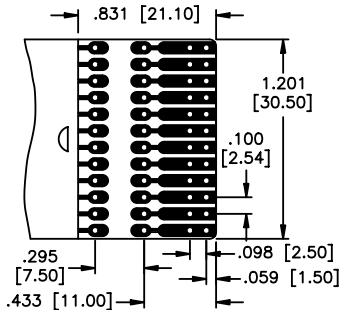
# DPS10 SERIES PUSHWHEEL SWITCHES

## PRINTED CIRCUIT OPTIONS

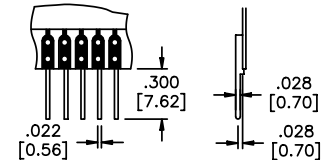
P.C. boards have .039" (1mm) holes and are suitable for soldering or socket connection (with the exception of LED illumination option).



**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.

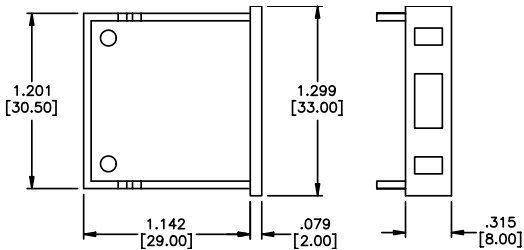
### 'BUILD YOUR OWN SWITCH' ORDER FORMAT

Series model	Code	P.C. board	Terminations	Standard colors
D P S 1 0	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	1 1 1 Decimal	A K Short	(NONE)	Black housing. & drum, white lettering.
	1 3 1 BCD	A L Long	L S with p.c. solder pins	
	1 3 7 BCD comp.			
	1 4 1 BCD + comp.			
	3 0 1 Hexadecimal.			
	3 0 7 Hexadecimal comp.			
	4 0 0 Change-over			

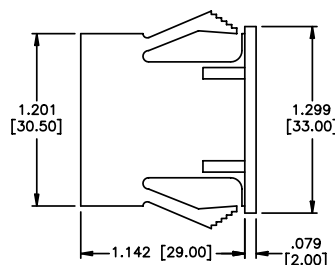
Example of complete model no.: **DPS10141AKLS2**  
Order SP15 as a separate line item for limit stop pin (for 10 position models only).

## ACCESSORIES

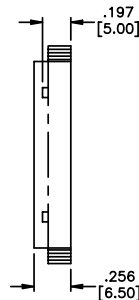
Order separately



**DPS10L2** Dummy housing

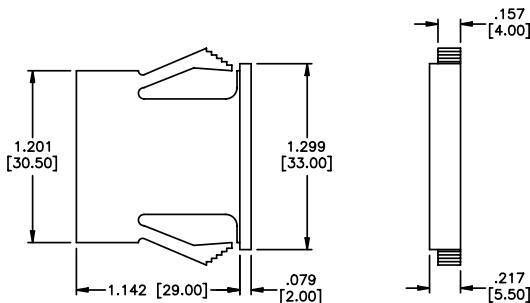


**DPS910P2** Pair of side covers

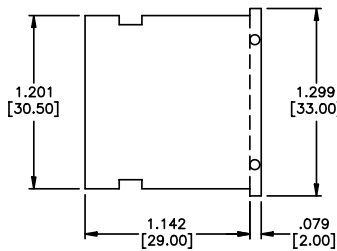


**DPS10L2** Dummy switches

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



**DPS910PB2** Pair of side covers

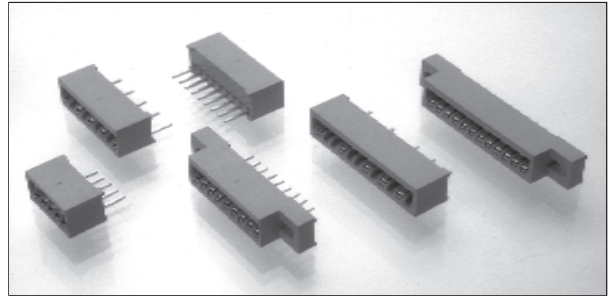


**DPS910A2** Spacer

# SOCKETS FOR PUSHWHEEL SWITCHES

## FEATURES

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



## MATERIALS

Body: Glass fiber reinforced PPO (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

Contact resistance: Less than 15 milliohms

Insulation resistance: Greater than  $10^{12}$  ohms

Test voltage: 500 V

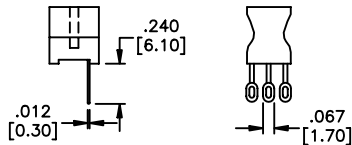
Operating temperature: -40°C to 100°C

Insertion force/contact: Approx. 7.2 oz.

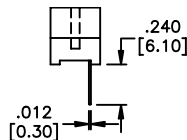
Withdrawal force/contact: Approx. 6.5 oz.

Socket integrity: 100 insertions min. with no change to above values

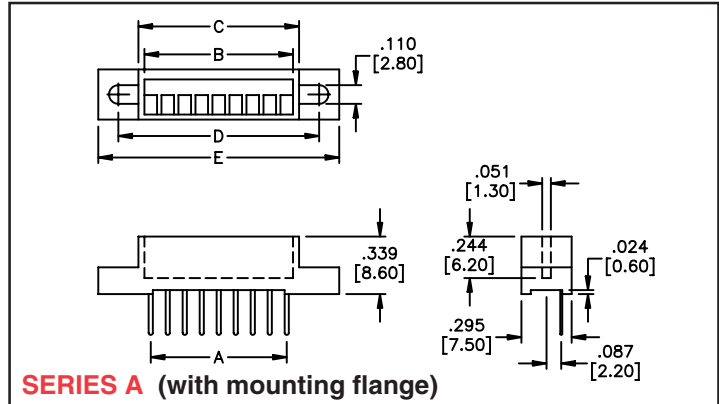
## TERMINATIONS



**L** Solder lug (for .100" (2.54mm) spacing only).

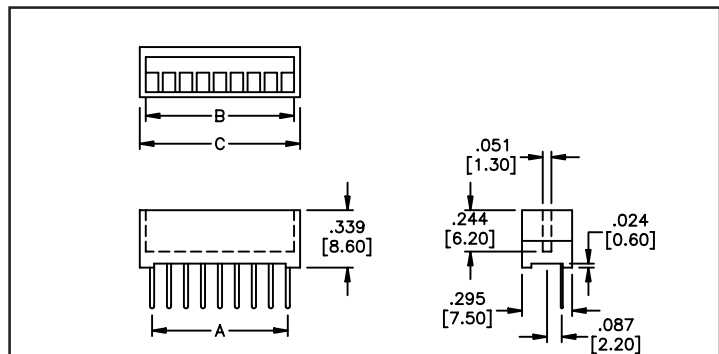


**LS** Printed circuit



**SERIES A (with mounting flange)**

Poles/models	A	B	C	D	E
<b>9 poles for SMCD &amp; DPS8</b>	8 X .100" (2.54mm)	.874" (22.2mm)	.945" (24mm)	1.180" (30mm)	1.417" (36mm)
<b>12 poles for DPS9 &amp; DPS10</b>	11 x .100" (2.54mm)	1.200" (30.5mm)	1.300" (33mm)	1.535" (39mm)	1.772" (45mm)

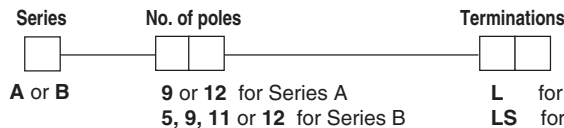


**SERIES B (without mounting flange)**

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

## ORDER FORMAT:

Make selections shown below boxes for complete connector model number.



Example of complete model no.: **B11LS**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

J

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А