## : ©hipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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## 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
Width
Installed depth with p.c. board:
Short
Long
Insertion from front
Insertion from rear
CODES

Code
111 Decimal
131 BCD
137 BCD comp
301 Hexadecimal 16 0-9, A-F(0-15)
400 change-ove
ELECTRICAL DATA
Operating voltage:
Contact load, static:
Contact load, dynamic:
Contact resistance (type AK):
TECHNICAL DATA
Operating temperature range
Electric life, min. switching cycles
Actuation force, approx (oz.):
Weight, approx. (grams):
Character height:
Audible click
Vibration DIN IEC 68, parts 2-6
Shock DIN 40046, part 7
.945 "(24mm)
.315"(8mm)
1.260"(32mm)
1.654 "(42mm)
yes
yes
see truth tables
see truth tables
see truth tables
see truth tables
see truth tables

40 V max.
1 A max.
100 mA max.
less than 100 mOhm
$-20^{\circ} \mathrm{C}$ to $80^{\circ} \mathrm{C}$
1,000,000
14
4
10 digit $.193^{\prime \prime}(4.9 \mathrm{~mm})$ 16 digit . 134 " (3.4mm)
yes
yes yes

MATERIALS

Body:
PC board:

Sliding contact:

PPO

FR 4 DIN 40802 IEC 249-2, Contact surface gold over nickel on copper

Gold over nickel on copper alloy

STANDARD COLORS
Housing,Drum,Printing 2 = black $3=$ white
$2,2,3$



## 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.



## SMCD SERIES MINIATURE PUSHWHEEL SWITCHES

## PRINTED CIRCUIT OPTIONS

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


AK short p.c. board $\quad \begin{gathered}\text { AL long p.c. board } \\ \text { Allows customer to add }\end{gathered} \quad$ ALU long p.c. board $\quad$ 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


SMCRL2 Dummy housing


SMCPK2 Pair of side covers


SMCPKH2 Pair of side covers


SMCA2 Spacer


