## 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
- PC board options include solderable lands


## SMCD SPECIFICATIONS

Panel mounting hole:

Height
Width
Installed depth with pc board:
Short
Long
Insertion from front
Insertion from rear
CODES
Code
111 Decimal
131 BCD
137 BCD comp
301 Hexadecimal
400 change-over

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 EN 60068-2-6
Shock DIN EN 60068-2-27
.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
$\begin{array}{ll}10 \text { digit } & .193 "(4.9 \mathrm{~mm}) \\ 16 \text { digit } & .134 "(3.4 \mathrm{~mm})\end{array}$
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

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.

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## 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

> AL long pc board Allows customer to add resistors, diodes, etc.

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



SMCA2 Spacer


