

## Pushwheel Switches, Mini, Front Mount

SMCD Series have large visible readout characters despite it's small size. This popular family is used in measurement and test instrumentation for range setting, data programming and count controlling; and in communications equipment for digital tuning. The simple, reliable bi-direction pushbutton mechanism permits rapid changes to either higher or lower numerical settings. Instrument-grade performance and long service life are enhanced by the heavy gold wiping contacts. Large readout characters are protected by dust-sealed windows. Snap-together grouping and snap-in panel mounting minimize installation time and cost. SMCD models have snap detent with slight audible click.

SMCD bi-directional code switches may be easily assembled into groups of any number. The tabs or pins of one decade section press fit into the holes in the adjacent section. Spacers and end mounting plates may be included in the same manner as desired.

Groups of SMCD switches with end plates snap into panel holes of the recommended size and are retained by plastic clips. Again, tools and additional hardware items are not required.

### MATERIAL SPECIFICATIONS:

|                             |                               |
|-----------------------------|-------------------------------|
| PC Board.....               | Glass epoxy type, FR4         |
| PC Terminals .....          | Gold over Ni on Cu            |
| Character Height/Color..... | White on black background     |
|                             | SMC .197/.134; SMCD .193/.134 |
|                             | Except 301 & SG558: .140 and  |
|                             | SG557 .120                    |
| Molded parts .....          | Noryl-SE1, Black matte finish |
| Housing.....                | Black matte finish            |

### TYPICAL PERFORMANCE CHARACTERISTICS:

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Contact Rating .....             | 0.4 VA @ 20 VDC or Peak AC               |
| Contact Circuit Resistance ..... | 0.12 Ohm max. (Total internal ckt. res.) |
| Mechanical Life .....            | More than 10 <sup>6</sup> operations     |
| Operational Force .....          | Approx. 14 oz.                           |

### ENVIRONMENTAL SPECIFICATIONS

|                            |                  |
|----------------------------|------------------|
| Operating Temperature..... | (-20°C to +80°C) |
|----------------------------|------------------|

| Model    | Description                                       |
|----------|---------------------------------------------------|
| SMCPK    | End mounting plates (pair)                        |
| SMCL     | 300" spacer section                               |
| SMCA     | .100" spacer (with mounting clips)                |
| SMCADP   | .100" spacer, decimal point (with mounting clips) |
| B9L      | Connector, 9 contacts, solder lug terminals       |
| B9LS     | Connector, 9 contacts, PC pins                    |
| B9LS5PIN | Connector, 5 contacts, PC pins                    |
| B11LS    | Connectors, 11 contacts, PC pins (for 111)        |
| SP1.2    | Limit stop pin for SMD 10 position only           |

## SMCD - 131 - AK

| Codes                  | Connections             |
|------------------------|-------------------------|
| 111 = Decimal          | AK = pcb short          |
| 131 = BCD              | AL = pcb long           |
| 137 = BCD Complement   | LS = solder pin         |
| 141 = BCD + Complement | ALU = pcb long downward |
| 301 = Hexadecimal      |                         |

See Code Tables on Page J3

