TPC Series
Tri-direction Scan Switch

Features/Benefits
- One touch, 3 way switching
- Superior tactile feel
- Rotation of actuator closes two individual contacts
- Ultra-low profile housing
- Normally open contacts
- Custom actuator by request
- RoHS compliant and compatible

Typical Applications
- Mobile phones, pagers
- PDA
- Handheld electronic devices
- Digital cameras, camcorders
- Communication equipment

Construction
FUNCTION: Multi-directional momentary action
CONTACT ARRANGEMENT: Make contact = SP, N.O.
TERMINALS: Gullwing type for SMT

Mechanical
MAXIMUM ACTUATION FORCE: 20 N (select), 10 N (left & right).
OPERATING FORCE/TRAVEL:

<table>
<thead>
<tr>
<th>Direction</th>
<th>Actuation Force</th>
<th>Travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left</td>
<td>1.0 ± 0.5 N</td>
<td>16° ± 4°</td>
</tr>
<tr>
<td>Right</td>
<td>1.0 ± 0.5 N</td>
<td>16° ± 4°</td>
</tr>
<tr>
<td>Select</td>
<td>2.2 ± 0.75 N</td>
<td>0.8 mm ± 0.2</td>
</tr>
</tbody>
</table>

Operating life = 150 K cumulated operations (50 K ops in both scanning directions then 50 K ops in select direction)

Packaging
Switches are delivered in tape and reels of 2,000 pieces. The reel diameter is 330 mm (12.99). The tape width 24 mm (0.945) conforms to the EIA-RS-481 and EC-2863 norms.

Electrical
MAXIMUM POWER: 1.0 VA
MAXIMUM VOLTAGE: 32 V
MAXIMUM CURRENT DC: 50 mA
MINIMUM CURRENT DC: 1 mA
LOW LEVEL USE: 20mV–1mA
DIELECTRIC STRENGTH: 250 Vrms
CONTACT RESISTANCE: ≤ 300 mΩ (select) ≤ 1 Ω (left & right)
INSULATION RESISTANCE (100 VDC): 10^9 Ω
BOUNCE TIME: < 10 ms

Environmental
OPERATING TEMPERATURE: -40°C to 125°C
STORAGE TEMPERATURE: -55°C to 125°C

Process
Soldering process: Compatible with the lead free soldering process.

Note: Specifications listed above are for switches with standard options.
For information concerning design integration, please contact your local ITT representative.

How To Order
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.
TPC Series
Tri-direction Scan Switch

TPC2133G

Date Code appears on TPC
First Line: product identification number
Second Line: year, week number and day

Dimensions are shown: mm (inch)
Specifications and dimensions subject to change

www.ittcannon.com