# PTS645-TR Series

## 6 mm Radial Tact Switches

### Features/Benefits
- Radial taping
- Thru-hole or vertical actuation
- From 130 to 260 grams actuation force

### Typical Applications
- Consumer products
- Instrumentation
- Computer products
- Industrial

## Specification

**FUNCTION:** Momentary action  
**CONTACT ARRANGEMENT:** SPST, N.O.  
**TERMINALS:** PC pins

### Mechanical

**ACTUATION FORCE:** PTS645 models: 130 grams, 160 grams, 260 grams  
**LIFE EXPECTANCY:** 100,000 operations.

### Electrical

**CONTACT RATING:** 50 mA @ 12 V DC.  
**DIELECTRIC STRENGTH:** 250 V AC min.  
**CONTACT RESISTANCE:** 100 mΩ max. initial.  
**INSULATION RESISTANCE:** 10^12 Ω min.

**NOTE:** Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Environmental

**OPERATING TEMPERATURE:** -40°C to 60°C

### Process

**SOLDERING:** Preheating to 100°C for 45 sec. max. Keep flux flush with top surface of PCB; do not apply to component side of PCB and area where terminals are located. Soldering to 255°C for 5 sec. max. Clean by brushing on solder surface. Do not clean switch with solvents.

### Materials

**BASE:** 6/6 nylon or glass filled polyester (PBT) (UL 94V-0).  
**ACTUATOR:** PBT (UL94V0)  
**COVER PLATE:** PTS645S: Stainless steel tin plate.  
**PTS645V:** Tin alloy or stainless steel.  
**DOME CONTACTS:** Phosphor bronze, silver clad.  
**STATIONARY CONTACTS:** Brass, silver plated.  
**TERMINALS:** Brass, silver plated. Insert molded.

### Packaging

**Radial taping, 1000 pieces.**

## 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.

### Insertion Type

- **Radial taping**

### Termination

- **Thru-hole**
- **Vertical**

### Actuator Height

<table>
<thead>
<tr>
<th>Type</th>
<th>Height</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>130 grams</td>
<td>Thru-hole</td>
</tr>
<tr>
<td>M</td>
<td>160 grams</td>
<td>Thru-hole</td>
</tr>
<tr>
<td>H</td>
<td>200 grams</td>
<td>Thru-hole</td>
</tr>
<tr>
<td>K</td>
<td>260 grams</td>
<td>Thru-hole</td>
</tr>
<tr>
<td>34</td>
<td>43 (.169)</td>
<td>Vertical</td>
</tr>
<tr>
<td>49</td>
<td>50 (.197)</td>
<td>Vertical</td>
</tr>
<tr>
<td>64</td>
<td>70 (.275)</td>
<td>Vertical</td>
</tr>
<tr>
<td>79</td>
<td>95 (.374)</td>
<td>Vertical</td>
</tr>
<tr>
<td>94</td>
<td>31 (.124)</td>
<td>Vertical</td>
</tr>
<tr>
<td>113</td>
<td>39 (.151)</td>
<td>Vertical</td>
</tr>
</tbody>
</table>

### Actuation Force

- **L** 130 grams  
- **M** 160 grams  
- **H** 200 grams  
- **K** 260 grams
PTS645-TR Series
6 mm Radial Tact Switches

**SERIES**

PTS645

**TERMINATION**

S  THRU-HOLE

V  VERTICAL

**PCB LAYOUT**

**ACTUATION FORCE**

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>FORCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>130 grams</td>
</tr>
<tr>
<td>M</td>
<td>160 grams</td>
</tr>
<tr>
<td>H</td>
<td>200 grams</td>
</tr>
<tr>
<td>K</td>
<td>260 grams</td>
</tr>
</tbody>
</table>

Dimensions are shown; mm (inch)
Dimensions subject to change
PTS645-TR Series
6 mm Radial Tact Switches

**ACTUATOR HEIGHT**

<table>
<thead>
<tr>
<th>Value</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>4.3 mm</td>
</tr>
<tr>
<td>50</td>
<td>5.0 mm</td>
</tr>
<tr>
<td>70</td>
<td>7.0 mm</td>
</tr>
<tr>
<td>95</td>
<td>9.5 mm</td>
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</tbody>
</table>

**Tactile Switches**

<table>
<thead>
<tr>
<th>B</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>3.15 mm</td>
</tr>
<tr>
<td>39</td>
<td>3.85 mm</td>
</tr>
</tbody>
</table>

**INSERTION TYPE**

**TR** Radial Taping