**SERIES TL SWITCHES**

**SPECIFICATIONS**

Rating: 50mA @ 50 VDC

Mechanical Life: 100,000 cycles typical

Contact Resistance: 20mΩ max. initial @ 2-4 VDC

Insulation Resistance: 100MΩ min.

Dielectric Strength: 1,000 Vrms at sea level

Operating Force: 100 ± 50 gf, 160 ± 50 gf, 260 ± 50 gf

**MATERIALS**

Housing: Polyphenylene Sulfide (PPS) or 4/6 Nylon

Actuator: Polyphenylene Sulfide (PPS) or 6/6 Nylon

Bracket/Cover: Tin plated steel

Contacts: Silver plated phosphor bronze

Gold over nickel over phosphor bronze

Terminals: Silver plated brass

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Series</th>
<th>Model No.</th>
<th>Actuator Length</th>
<th>Operating Force</th>
<th>Contact Material</th>
<th>Termination</th>
</tr>
</thead>
</table>
| TL 3301 | "L" Dimension: N=4.3mm  
C=8.0  
D=13.0  
E=7.3  
F=7.0  
A=5.0mm  
T=2.4mm  
SP=2.8mm | F100  
F160  
F260 | Q=Silver  
R=Gold | G=Gull Wing  
J= J-Lead |

- **EXAMPLE**
  - TL 3301 N F160 Q J

- □ = Square Snap-on Actuator Head

- "L" dimension is 7.3mm
SERIES TL SWITCHES

SURFACE MOUNT TACT SWITCHES

TL 3301
Gull Wing

TL 3301
J-Lead

Detail A

ACTUATOR OPTIONS

<table>
<thead>
<tr>
<th>Actuator Length (L) in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = 4.3mm</td>
</tr>
<tr>
<td>A = 5.0mm</td>
</tr>
<tr>
<td>C = 8.0mm</td>
</tr>
<tr>
<td>E = 7.3mm</td>
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<tr>
<td>F = 7.0mm</td>
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</table>

OPERATING FORCES

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<tr>
<td>F100 = 100 ± 50gf</td>
</tr>
<tr>
<td>F160 = 160 ± 50gf</td>
</tr>
<tr>
<td>F260 = 260 ± 50gf</td>
</tr>
</tbody>
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CONTACT MATERIAL

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</thead>
<tbody>
<tr>
<td>Q = Silver</td>
</tr>
<tr>
<td>R = Gold</td>
</tr>
</tbody>
</table>

TL 3301 STANDARD REEL

*SNote: Contact E-Switch for additional packaging options.

P.C. MOUNTING

Gull Wing

J-Lead

Schematic