Parameter description

Metal power switch button
## Series 19D

### Parameter Description

#### Electrical parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>power level(silvering):</strong></td>
<td>10A</td>
</tr>
<tr>
<td><strong>LED voltage:</strong></td>
<td>3~220V</td>
</tr>
<tr>
<td><strong>LED current:</strong></td>
<td>1.5mA~20mA</td>
</tr>
<tr>
<td><strong>LED light color:</strong></td>
<td>red, yellow, blue, green, white</td>
</tr>
</tbody>
</table>

#### Other Ratings

- **Contact Resistance:** The contact is made of silver alloy, and the maximum resistance is 50m Ω; The maximum value of gold plating of contact material is 30m Ω
- **Insulation Resistance:** 200 megoohms minimum @ 500V DC
- **Dielectric Strength:** 1,900V AC minimum between contacts for 1 minute minimum
- **Mechanical Life:** Self reset type / more than 500,000 times
  
  Self locking type / more than 250,000 times
- **Electrical Life:** 250,000 operations minimum
- **Nominal Operating Force:** Approx.: 1.5N
- **Contact Type:** 1NO
- **Travel:** Pretravel .059*(1.5mm); Overtravel .059*(1.5mm); Total Travel .118*(3.0mm)

#### Materials & Finishes

- **Button:** SUS304 Stainless Steel
- **Shell:** SUS304 Stainless Steel
- **Base:** PA66
- **Movable Contactor:** Silver-plated brass
- **Static contact pin:** Silver-plated brass
- **Active rod:** PA66
- **Compression spring:** SUS304
- **Wire:** LED lights 20AWG, control terminal 16AWG
  
  The length of the cable is 150mm (the cable length can be customized)

#### Environmental Data

- **Operating Temperature Range:** -30°C through +85°C
- **Humidity:** 90~95% humidity for 240 hours @ 40°C
- **Vibration:** 10~55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
- **Sealing:** IP66

#### Installation

- **Installation aperture:** 19mm
- **Soldering Time & Temperature:** The welding time is 3 seconds and the welding temperature is not higher than 280 °C
19D Series

Standard model illustration example
Switch configuration and accessories

PA66 flame retardant material

- Total line length: 150mm
- Stripping length: 3~5mm
- 1.5² Wire
- 20AWG Wire
Series HB19D

Size and material application

19D-G1 19D-P1
19D-P1  -EC
19D-P1-C 19D-G1-C
19D-P1-E 19D-G1-E