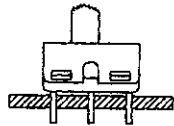
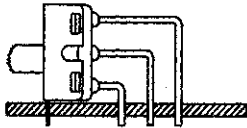


# Mini Slide Switches

Part Nos. 17TS13B, 17TS13C, 17TS14B, 17TS14C, 17TS11C

Back to [Mini Slide](#) Main Page



## SPECIFICATIONS

CONTACT RATING: 5A @120 VAC or 28 VDC  
3A @250 VAC

ELECTRICAL LIFE: 30,000 make-and-break cycles at full load  
CONTACT RESISTANCE: 10 mΩ max. initial @2-4 VDC, 100 mA  
INSULATION RESISTANCE: 1,000 MΩ min.  
DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.  
OPERATING TEMPERATURE: -30°C to 85°C

## MATERIALS

CASE - diallyl phthalate ( DAP )  
SLIDE HANDLE - Nylon  
HOUSING - Stainless Steel  
CONTACT AND TERMINAL - Copper alloy, silver plated

How do you build the switches you need!!

The straight type , please see the (A) ;

The right angle P.C terminals, please see the (B)

(A) **TS - 13 - A1 - 2 - C Q - E - S20**

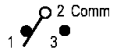
| Switches Function |                 | Actuator |       | Actuator color |              | Termination |                 | Contact Material                                      |                  | Vertical support Bracket |       |
|-------------------|-----------------|----------|-------|----------------|--------------|-------------|-----------------|---|------------------|--------------------------|-------|
| TS-13             | SPDT on-none-on | A1       | 5.08  | 1              | white        | B           | solder lug      | Q   | silver plated    | (none)                   |       |
| TS-14             | SPDT on-off-on  | A2       | 7.35  | 2              | black (std.) | C           | P.C             | R   | gold plated      | S20                      | 11.68 |
| TS-11             | DPDT on-none-on | A3       | 9.40  | 9              | gray         | D           | Quick connect   | G   | gold over silver |                          |       |
| TS-12             | DPDT on-off-on  | A4       | 3.60  |                |              | D1          | wire wrap 19.05 | <b>Epoxy seal</b><br>(none) none seal<br>E epoxy seal |                  |                          |       |
|                   |                 | A5       | 5.08  |                |              | D3          | wire wrap 10.8  |   |                  |                          |       |
|                   |                 | A6       | 12.32 |                |              |             |                 |   |                  |                          |       |
|                   |                 | A7       | 4.20  |                |              |             |                 |   |                  |                          |       |

(B) **TS - 13 P - A1 - 2 - Q - E**

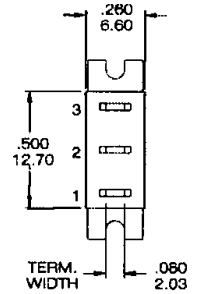
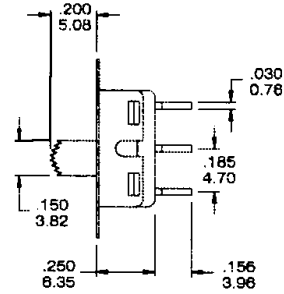
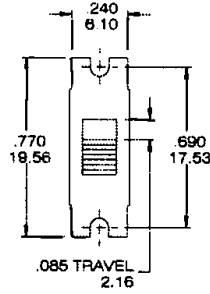
| Horizon Right Angle | Vertical Right Angle | Switches Function | Actuator |       | Actuator color |       | Contact Material |                  | Epoxy seal |            |
|---------------------|----------------------|-------------------|----------|-------|----------------|-------|------------------|------------------|------------|------------|
| TS-13P              | TS-13L               | SPDT on-none-on   | A1       | 4.72  | 1              | white | Q                | silver plated    | (none)     | none seal  |
| TS-14P              | TS-14L               | SPDT on-off-on    | A2       | 6.96  | 2              | black | R                | gold plated      | E          | epoxy seal |
| TS-11P              | TS-11L               | DPDT on-none-on   | A3       | 8.96  | 9              | gray  | G                | gold over silver |            |            |
| TS-12P              | TS-12L               | DPDT on-off-on    | A4       | 3.10  |                |       |                  |                  |            |            |
|                     |                      |                   | A6       | 11.92 |                |       |                  |                  |            |            |

# T80-S Slide Switches

SPDT



| Model No.   | Switching position |      |     |
|-------------|--------------------|------|-----|
|             |                    |      |     |
| TS-13       | ON                 | NONE | ON  |
| TS-14       | ON                 | OFF  | ON  |
| Term. Comm. | 2-3                | open | 2-1 |

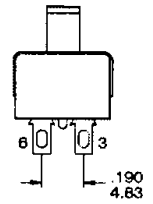
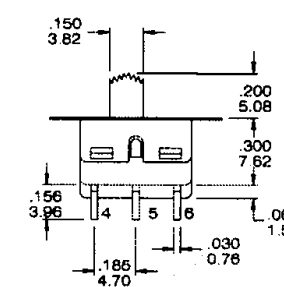
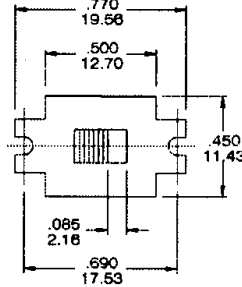


TS-13-A1-2-BQ

DPDT



| Model No.   | Switching position           |      |                              |
|-------------|------------------------------|------|------------------------------|
|             |                              |      |                              |
| TS-11       | ON                           | NONE | ON                           |
| TS-12       | ON                           | OFF  | ON                           |
| Term. Comm. | 2-3 <input type="checkbox"/> | open | 2-1 <input type="checkbox"/> |
|             | 5-6                          |      | 5-4                          |



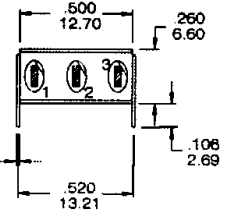
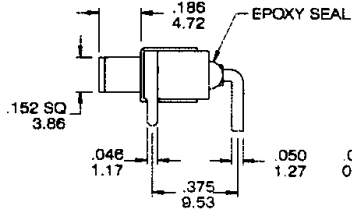
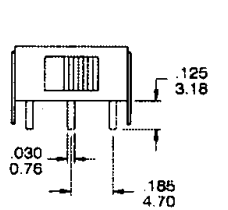
TS-11-A1-2-BQ

## HORISON RIGHT ANGLE

DPDT



| Model No.   | Switching position |      |     |
|-------------|--------------------|------|-----|
|             |                    |      |     |
| TS-13P      | ON                 | NONE | ON  |
| TS-14P      | ON                 | OFF  | ON  |
| Term. Comm. | 2-3                | open | 2-1 |

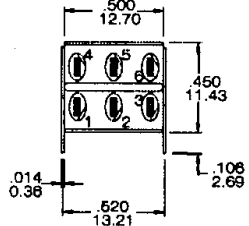
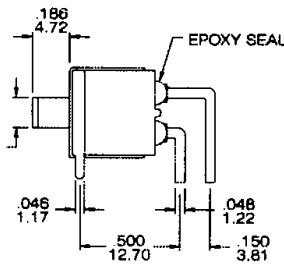
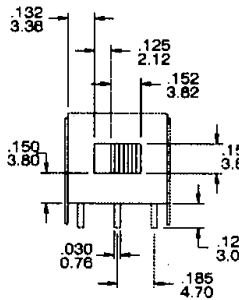


TS-13P-A1-2-Q(-E)

DPDT

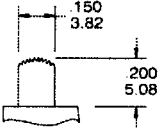
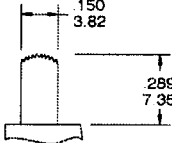
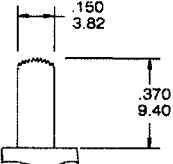
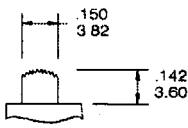
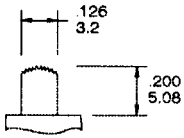
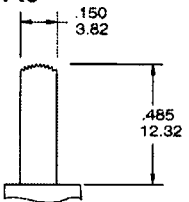
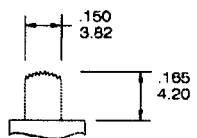


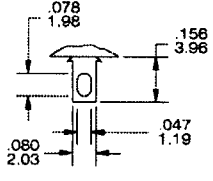
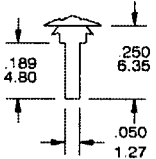
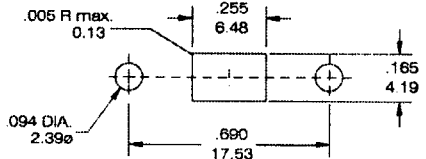
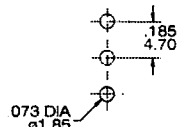
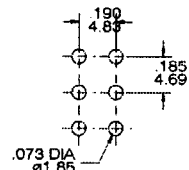
| Model No.   | Switching position           |      |                              |
|-------------|------------------------------|------|------------------------------|
|             |                              |      |                              |
| TS-11P      | ON                           | NONE | ON                           |
| TS-12P      | ON                           | OFF  | ON                           |
| Term. Comm. | 2-3 <input type="checkbox"/> | open | 2-1 <input type="checkbox"/> |
|             | 5-6                          |      | 5-4                          |



TS-11P-A1-2-Q(-E)

# T80-S Slide Switches

| Actuator Option  |  |  |   | Actuator Color   |           |       |   |       |   |       |   |      |
|--|--|--|---|--|-----------|-------|---|-------|---|-------|---|------|
| <b>A1</b><br> | <b>A2</b><br> | <b>A3</b><br> | <b>A4</b><br>   | <table border="1"> <thead> <tr> <th>COLOR NO.</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>white</td> </tr> <tr> <td>2</td> <td>black</td> </tr> <tr> <td>9</td> <td>gray</td> </tr> </tbody> </table> | COLOR NO. | COLOR | 1 | white | 2 | black | 9 | gray |
| COLOR NO.  | COLOR  |  |   |  |           |       |   |       |   |       |   |      |
| 1  | white  |  |   |  |           |       |   |       |   |       |   |      |
| 2  | black  |  |   |  |           |       |   |       |   |       |   |      |
| 9  | gray   |  |   |  |           |       |   |       |   |       |   |      |
| <b>A5</b><br> | <b>A6</b><br> | <b>A7</b><br> | <ul style="list-style-type: none"> <li>the height of actuator is for the straight type. It will be shorter while applying in Right Angle type.</li> </ul> |  |           |       |   |       |   |       |   |      |

| TERMINAL OPTION   | PANEL MOUNTING DIMENSION   | THE P.C.B MOUNTING   |
|---|--|--|
| <b>B SOLDER LUG</b> <b>C PRINTED CIRCUIT</b><br><br> <p>THK 0.76 (.030)</p>  <p>THK 0.76 (.030)</p> |  | <p>TS-13/TS-14</p>  <p>TS-11/TS-12</p>  |