## smuths tnterconnect

## Switch Probes

Specialty Test Products


# Board Test Spring Probes 

Smiths Interconnect offers a wide range of spring contact probes to meet your testing requirements and has long been recognized as the world's largest probe manufacturer. With over 60 different probe series that includes our standard Board Test Fixture Probes as well as our Specialty Test Probes, we provide a full portfolio designed for general purpose test on bare boards, loaded printed circuit boards, surface mount assemblies and other forms of test.


## Size 3 Switch Probe Series

### 0.125 (3.18) Centers

Does not require a receptacle. The barrel of the switch probe is designed to mount directly in the mounting plate.


Probe Specifications

| Minimum Centers | 0.125 (3.18) |
| :--- | :--- |
| Current Rating | Up to 3 Amps |
| Spring Force | 4.00 oz (114 $)$ @ 0.197 (5.00) travel |
| Preload Force | 1.40 oz (40 ) |
| Maximum Travel | 0.295 (7.49) |
| Working Travel | 0.197 (5.00) |
| Travel to Switch Point | 0.025 (0.64) |
| Spring Force at <br> Switch Point | 1.80 oz. (51 g) |

Materials

| Barrel | Nickel/silver, gold plated |
| :--- | :--- |
| Spring | Music wire |
| Plungers | Full-hard beryllium copper, gold plated |
| Insulator | Delrin |
| Contact | Beryllium copper, gold plated |

Mounting

| Drill Size | $\# 41$ |
| :--- | :--- |
| Mounting Hole Size | $0.094 / 0.096(2.39 / 2.44)$ |
| How to Order |  |


| SW-3-CS - 1.8 - G |  |  |
| :---: | :---: | :---: |
|  | 123 | 45 |
| 1 | Series | S W |
| 2 | Size | 3 |
| 3 | Tip Style | C S |
| 4 | Spring Force at Switch | 1. 8 oz |
| 5 | Plunger Plating | G Gold |

## Size 4 Switch Probe Series

### 0.156 (3.96) Centers

For R-4-CR Series Receptacles see 6


Probe Specifications

| Minimum Centers | 0.156 (3.96) |
| :--- | :--- |
| Current Rating | Up to 3 Amps |
| Spring Force | 4.80 oz (136 ) @ 0.120 (3.05) travel |
| Preload Force | 2.50 oz (71 و) |
| Maximum Travel | $0.160(4.06)$ |
| Working Travel | $0.120(3.05)$ |
| Travel to Switch Point | 0.107 (2.72) |
| Spring Force at <br> Switch Point | 4.40 oz. (125 ) |

Materials

| Barrel | Nickel/silver, gold plated |
| :--- | :--- |
| Spring | Stainless steel |
| Plungers | Beryllium copper, nickel plated |
| Insulator | Delrin |
| Contact | Beryllium copper, gold plated |
| How to Order |  |


| SW - $4-C-4.4-E N$ |  |  |
| :---: | :---: | :---: |
|  | 123 | 45 |
| 1 | Series | S W |
| 2 | Size | 4 |
| 3 | Tip Style | C |
| 4 | Spring Force at Switch | 4. 4 oz |
| 5 | Plunger Plating | E N Nickel |

## Size 5 Switch Probe Series

### 0.187 (4.75) Centers

For R-5-SW Series Receptacles see 7


## Becu Tip Diameter



Probe Specifications

| Minimum Centers | 0.187 (4.75) |
| :---: | :---: |
| Current Rating | Up to 3 Amps |
| Spring Force | 8.60 oz (244 و) or 20.40 oz (5 و (579) <br> @ 0.137 (3.48) travel |
| Preload Force | $\begin{aligned} & 1.80 \text { oz (51 g) } \\ & \text { (8.60 oz spring/stainless steel) } \\ & 5.20 \text { oz (148 g) } \\ & \text { (20.40 oz spring/music wire) } \end{aligned}$ |
| Maximum Travel | 0.190 (4.83) |
| Working Travel | 0.137 (3.48) |
| Travel to Switch Point | 0.030 (0.76) |
| Spring Force at Switch Point | 4.00 oz. (113) <br> (8.60 oz spring/stainless steel) or 10.30 oz. (293 و ) (20.40 oz spring/music wire) |

Materials

| Barrel | Nickel/silver, silver plated |
| :--- | :--- |
| Spring | Music wire or stainless steel |
| Plunger | Beryllium copper, nickel plated |
| Insulator | Delrin |
| Contact | Beryllium copper, nickel plated |

How to Order


| 1 | Series | S W |
| :---: | :---: | :---: |
| 2 | Size | 5 |
| 3 | Tip Style | $F$ |
| 4 | Spring Force at Switch | 4 loz 10.3 oz |
| 5 | Plunger Plating | E N Nickel |
| 6 Head Diameter |  | $11^{5} 0.115^{\prime \prime}$ |
|  |  | $1470.147^{\prime \prime}$ |

## R-4-CR Series

### 0.156 (3.96) Centers

For Size 4 Switch Probes see 4


Probe Specifications

| Minimum Centers | $0.156(3.96)$ |
| :--- | :--- |
| Drill Size | $\# 35$ |
| Mounting Hole Size | $0.108 / 0.110(2.74 / 2.79)$ |
| Materials | Nickel/silver, gold plated |

Tools

| Insertion Tool | RT-4 |
| :--- | :--- |
| How to Order |  |


|  | R-4-CR |
| :---: | :---: |
|  | 123 |
| 1 Series | R |
| 2 Size | 4 |
| 3 Termination | C R Crimp |

## R-5-SW Series

### 0.187 (4.75) Centers

For Size 5 Switch Probes see 5


Probe Specifications

| Minimum Centers | $0.187(4.75)$ |
| :--- | :--- |
| Drill Size | 3.60 mm |
| Mounting Hole Size | $0.141 / 0.143(3.58 / 3.63)$ |
| Materials | Nickel/silver, gold plated |
| Tools |  |
| Insertion Tool | RT-5 |
| How to Order |  |



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