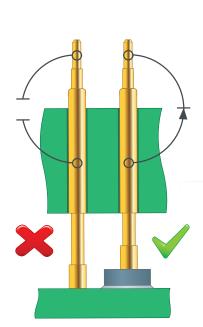
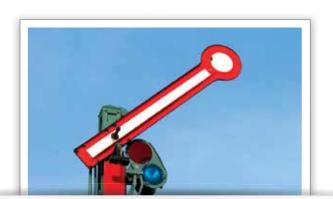
SWITCH PROBE

A Switch Probe is a spring contact probe and receptacle that is used to verify the presence of components or connectors. The switch probe is normally open, and after a designated travel the switch probe closes. The most common use for switch probes is in the cable harness testing industry. The switch probe is used to verify the correct location of a terminal contact in a connector while also checking the retention force.

Switch probes also verify the physical presence of non-conductive components such as caps for connectors or devices on a circuit board. There are two separate current paths in a switch probe. From the plunger tip to the tail is normally open and closes only after the probe deflects to the designated travel. The second path, from the plunger tip to the outside of the receptacle, is always closed.





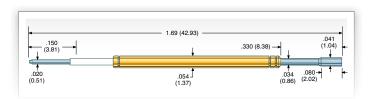


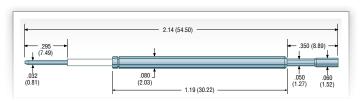
MSP-25C

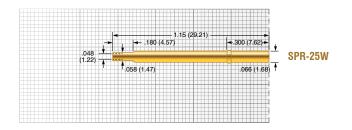
100 mil (2.54 mm)

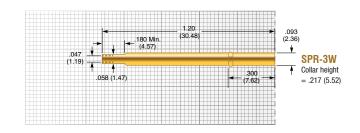
MSP-3C

125 mil (3.18 mm)









Mechanical

 Recommended Travel:
 .085 (2.16)

 Full Travel:
 .125 (3.18)

 Switch Point (\pm .012):
 .030 (0.76)

 Operating Temperature:
 -55°C to +105°C

Spring Force in oz. (grams)

	Switch Point	Rec. Travel	
Standard	6.51 (185)	7.55 (212)	
Floatrical (Static Conditions)			

Electrical (Static Conditions)

Current Rating: 3 amps
Average Probe Resistance: <50 mOhms

Materials and Finishes

Plunger: BeCu, Nickel plated

Barrel: Work hardened Phosphor Bronze,

Gold plated over hard Nickel

Spring: Music Wire, Silver plated

Insulator: DELRINTM

Terminal: BeCu, Silver plated

Mechanical

 Recommended Travel:
 .085 (2.16)

 Full Travel:
 .140 (3.56)

 Switch Point (\pm .012):
 .030 (0.76)

 Operating Temperature:
 -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Switch Point	Rec. Travel
Standard		4.9 (138.9)	6.5 (184.3)
Alternate	- 1	23.3 (660.5)	35.0 (992)

Electrical (Static Conditions)

Current Rating: 3 amps
Average Probe Resistance: <50 mOhms

Materials and Finishes

Plunger: BeCu, Nickel plated

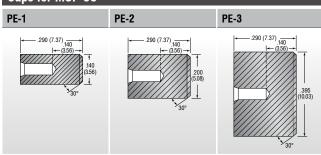
Barrel: Work-hardened Nickel Silver, Silver plated

Spring: Stainless Steel, Silver plated

Insulator: KEL-FTM

Terminal: BeCu, Silver plated

Caps for MSP-3C



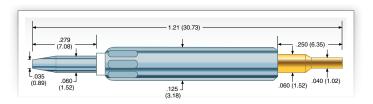
SPL-03C-069

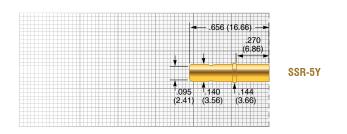
125 mil (3.18 mm)

1.53 (38.86) .300 (7.62) .330 (8.38) .032 (0.81) .046 (1.17) .058 (1.47) .050 (1.27) .040 (1.02) .093 (2.36) .098 (2.49)

SSP-5C

187 mil (4.75 mm)





Mechanical

Recommended Travel: .167 (4.24) Full Travel: .330 (8.38) Switch Point (± .012): .025 (0.64) Operating Temperature: -55° C to $+105^{\circ}$ C

Spring Force in oz. (grams)

		Switch Point	Rec. Travel	
Standard		3.2 (91)	1.85 (52)	
Electrical (Static	Conditions)			
Current Rating:			3 amps	
Average Probe Resistance:		<50 m0hms		
Materials and Fin	ishes			
Plunger:	BeCu, Gold pla	BeCu, Gold plated		
Barrel:	Nickel Silver, G	Nickel Silver, Gold plated		
Spring:	Music Wire			
Insulator:	DELRIN™			
Terminal:	BeCu, Gold pla	ted		

Mechanical

Standard

Recommended Travel: .100 (2.54) Full Travel: .150 (3.81) Switch Point (\pm .012): .025 (0.64) -55°C to +150°C Operating Temperature:

Switch Point

2.36 (66)

Rec. Travel

4.5 (128)

Spring Force in oz. (grams)

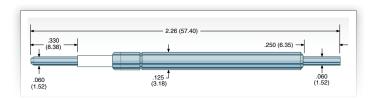
Electrical (Static Conditions)	
Current Rating:	5 amps
Average Probe Resistance:	<50 m0hms
Materials and Finishes	

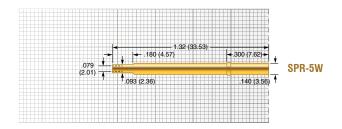
Plunger: BeCu, Gold plated Nickel Silver, Silver plated Barrel: Spring: Spring Steel, Silver plated DELRIN™ Insulator: Terminal: BeCu, Gold plated



MSP-5C

187 mil (4.75 mm)





Mechanical

 Recommended Travel:
 .132 (3.35)

 Full Travel:
 .185 (4.70)

 Switch Point (\pm .012):
 .025 (0.64)

 Operating Temperature:
 -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Switch Point	Rec. Travel
Standard		2.5 (70)	5.2 (146)
Alternate	- 1	26.9 (755)	35.0 (992)

Electrical (Static Conditions)

Current Rating: 5 amps
Average Probe Resistance: <20 mOhms

Materials and Finishes

Plunger: Brass, Nickel plated
Barrel: Brass, Silver plated
Spring: Stainless Steel, Silver plated

Insulator: KEL-FTM

Terminal: Brass, Silver plated