



BEADON
SOLUTIONS

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Centers 100 Mil / 2.54 mm

4.00 mm [0.157] Switching Path

SW1002

SWITCH PROBES

TIP STYLES

SW1002

Technical Specifications

Recommended Working Stroke: 4.00 mm [0.157]

Full Stroke: 5.30 mm [0.209]

Switching path: 4.00 mm [0.157] ± 0.2 [0.008]

Max. Current: 3A (continuous)

Average Resistance: < 50 mΩ

Barrel Material:

Phosphor Bronze / Beryllium Copper / Nickel Silver

Spring Material: SUS / Spring Steel Gold Plated

Mounting Hole Size:

Socket / Receptacle Diameter + 0.01 - 0.03 mm
[0.394 - 1.181 mil] drill bits are recommended.^Δ

Switch Probes are actually micro-switches and have different switching paths. The repeatable switching path ensures the quality of our Switch Probes.

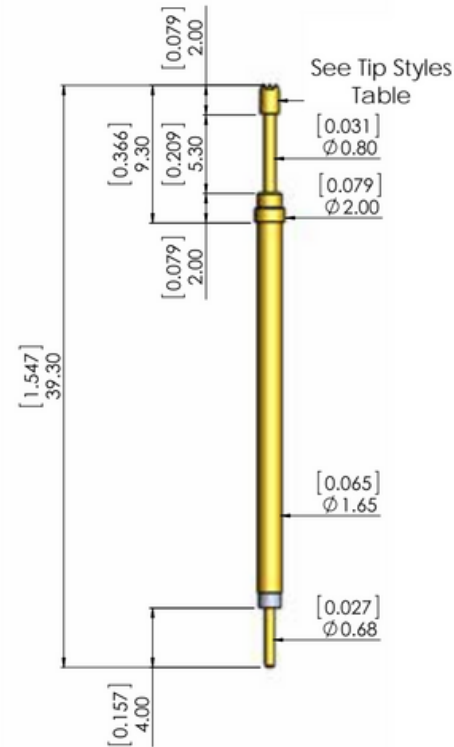
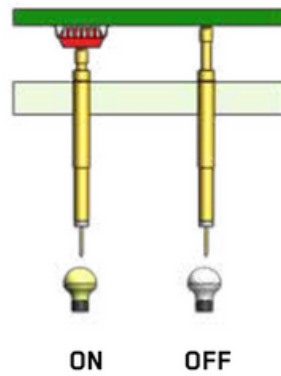
Typical applications for this type of product are:

- Test fixture closed-cover and/or UUT (Unit Under Test) sensing
- Automatic start of test when DUT is placed on to the fixture
- Placed under Probes with through-hole continuous Plunger for "circuit closed"
- Component and Connector Pin Presence Check

Spring Force at Switching Point		
Code	Rated force	
	(N)	[oz]
M	1.00	3.6

Plunger Material	
Code	Material
5	Steel
9	Plastic

Plunger Plating	
Code	Material
No letter	Hard Gold



^Δ Varies from used drilling technologies and raw materials. For more Technical information consult with us at: info@equip-test.com

Recommended Socket / Receptacle Series for
Switch Probes SW1002 is RCP079.
See Page 140 for detailed information.

Tool for SW1002 Series Test Probes Contains: Tool Handle + Exchangeable Bit(s) - has to be chosen*

Tool Handle w. shaft	Insertion Bits		Insertion & Extraction Bit
	Universal	Tip Diameter not Wider than Probe Plunger	Tip Diameter Wider than Probe Plunger
TH1	TBP10000	TBP10035	TBP10070

*Exchangeable Bits above always need a Tool Handle for proper use. Tool Handle fits to all Exchangeable Bits from this catalog.

Test Probes Ordering Code Example

SW1002 CG 53 M

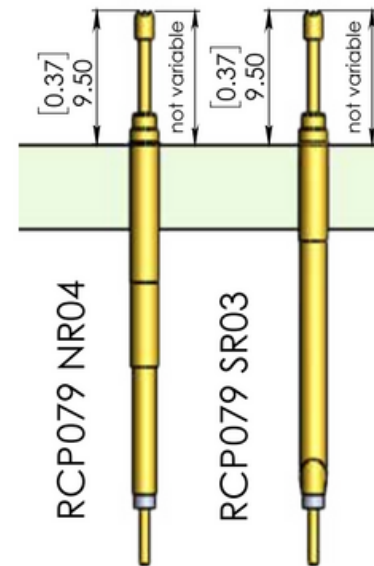
a: Series • b: Plunger Plating • c: Tip Style • d: Plunger Material • e: Tip Diameter Code • f: Spring Force Code • g: Special Tip Diameter (mm x 100)

By default Plunger is Hard Gold plated and it is not marked in the PO Code. Fill position b: only if different.

Tip Styles	Plunger Material	Tip Diameter Code	Tip Diameter	
			mm	[inches]
IW	9	3	1.50	0.059
CG	5	3	1.30	0.051
FA	5	3	0.80	0.031
TA	5	3	1.50	0.059

Tip Diameter Code changes according to the Tip Style.

Installation Height with different
Sockets / Receptacles



Installation Height is determined by drill hole depth of Socket / Receptacle that is used!

RCP079 NR04

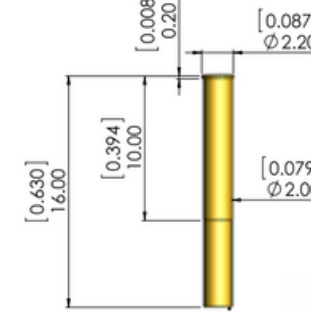
Installation Height

• Fixed: 9.50 mm [0.374]

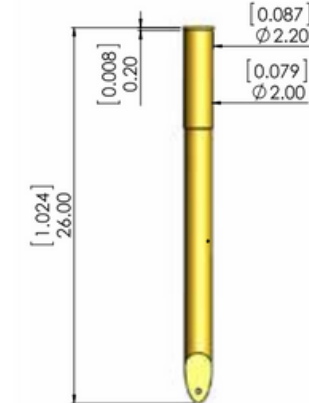
• Variable: not variable

Material: Brass

Plating: Hard Gold



RCP079 SR03



Tool for RCP066 Sockets / Receptacles Contains:
Tool Handle + Exchangeable Bit(s)
- has to be chosen*



*Exchangeable Bits above always need a Tool Handle for proper use. Tool Handle fits to all Exchangeable Bits from this catalog.

*Extraction Bit for Receptacle is applicable both to universal Handle TH1 and extraction optimized Handle TH2 (See Page 4)

Socket / Receptacle Ordering Code Example

RCP079 NR04

x: Series • y: Socket / Receptacle Plating • z: Option

By default Socket / Receptacle is Hard Gold plated and it is not marked in the PO Code. Fill position y: only if different.

Socket / Receptacle Plating

Code	Material
No letter	Hard Gold

SW1002

Switch Probes - 100 Mil / 2.54 mm

ACTUAL SIZE

SW1002

Switch Probes - 100 Mil / 2.54 mm

ACTUAL SIZE