

Switch Probes / Terminals for Probes / Heat-Shrink Tubes

Circuit Board Guide Pins / Circuit Board Pusher Pins / Circuit Board Rough Guides

Switch Probes

SNP30

* For Tip Shape GP8, tip length is 14.0.

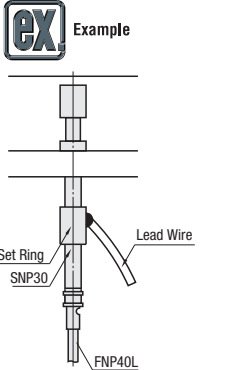
Tip Shape Selection: 11.0° (14.0), 11.0° (13.0), 11.0° (16.0)

No.	Part	Material	Surface Treatment
1	Plunger	Brass	Gold Plating on Nickel Undercoat
2	Barrel	Brass	Electroless Nickel Plating
3	Spring	SUS	-
4	Plunger	C1730B	Gold Plating on Nickel Undercoat
5	Sleeve	Polyacetal	-
6	Spring	SWP	Gold Plating
7	Pipe	C2700B	Gold Plating on Nickel Undercoat

Accessory: Set Ring

A stopper prevents the probe from falling out.

Material: Brass
Surface Treatment: Gold Plating on Nickel Underplating



SNP30 Tip Shapes

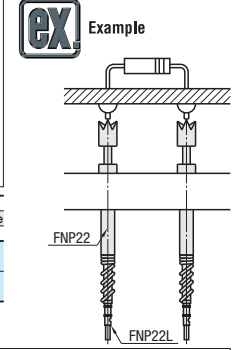
If the Tip Shape S probe is fully stroked and lateral load applied, the steps on the plunger shaft may hinder the returning action.

Part Number	Full Stroke	Operating Point	Spring Pressure	Maximum Operating Voltage	Replacement Cycle (Reference)	Mounting Hole for Press-Fitting Dimension (Reference)	Tip Shape B, G, L, S, BP, GP, GP8	Tip Shape D, J
SNP30	6.0mm	1.0mm from Tip	10gf / 80gf	15V	100,000 times	3.00-3.03mm		

Terminals for Probes

TNR8 TNR13

Material: Brass
Surface Treatment: Gold Plating on Nickel Underplating



Part Number	Lead Wire Color Selection	Applicable Probes, Receptacles	D	d	h	Lead Wire Standards		Maximum Operating Voltage	Allowable Current	With Lead Wire		Terminal only	
						O.D.	Lead			Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
TNR8	W (White) R (Red) BL (Blue) N (Terminal only)	NR45ST GNP12	1.05	0.84	2.0	(Ø0.6)	Ø0.12x7 pcs.	250V	3A				
TNR13	BL (Blue) N (Terminal only)	FNP13 FNP13HD	1.7	1.35	3.0	(Ø1.0)	Ø0.08x40 pcs.		4A				

Terminals for Probes

FNP22L FNP40L

Lead Wire Standards
O.D. Ø1.0 Rated Voltage: 30V
Lead Ø0.12x10 pcs. Operating Temperature: 60°C
* FNP22L is 600.

Material: Phosphor Bronze (Terminal)
Surface Treatment: Tinned Plating (Terminal)

Part Number	Lead Wire Color Selection	D	Applicable Probes, Receptacles			Maximum Operating Voltage	Allowable Current	With Lead Wire		Terminal only	
			NR120T FNP10HD FNPS22	NP16 FNP22SF FNPS22HD	FNP10 FNP22			Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
FNP22L	B (Black) W (White) Y (Yellow) G (Green) R (Red) OR (Orange) P (Purple) BL (Blue) GR (Gray) BR (Brown) N (Terminal only)	2	NR120T FNP10HD FNPS22	NP16 FNP22SF FNPS22HD	FNP10 FNP22	250V	3A				
FNP40L		2.6	NR804-B FNP40SF FNPS35	NR60-B FNP40 FNPS35HD	NR84-B SNP30						

Ordering Example: Part Number - Tip Shape - Lead Wire Color
SNP30 - B - BL
TNR8 - - B
FNP40L - - B

Heat-Shrink Tubes

THUS (Black)

Part Number	Type	Nominal No.	Standard Dimension			Dim. after Complete Shrinking	Unit Price	Volume Discount Rate
			I.D.	Thickness	Length			
THUS (Black)		0.8	0.8±0.25	0.1	20	0.4		
		1.0	1.4±0.25			0.5		
		1.5	1.9±0.25			0.75		
		2.0	2.3±0.25			1.0		

Material: Electron Beam Cross-Bridge Soft Polyolefin Resin

Ordering Example: Part Number - THUS1.0

Circuit Board Guide Pins

PGPCS, PGPC, PGPCX, PGPR, PGPRX, PGPU, PGPU, PGPJS, PGPJ, PGPT

Guide pins extrude as much as the stroke to the other side except PGPJ.

No.	Part	Material	Surface Treatment
1	Shaft	Brass	Electroless Nickel Plating
2	Sleeve	Brass	Electroless Nickel Plating
3	Spring	SUS304	-
4	Retaining Ring-E Type	SUS304	-
5	Head	Polyacetal	-

Part Number	P	Load	Mounting Hole Dimension (Reference)		Unit Price	Volume Discount Rate	
			Resin Plate Type (Press-Fit)	Metal Plate Type (Adhesion)		1 - 69 pc (s)	70-99
PGPCS	1.0~4.5	70gf	4.98-5.00mm	5.00-5.02mm			
PGPC		200gf					
PGPCX		200gf					
PGPR		70gf					
PGPRX	15mm	200gf	4.98-5.00mm	5.00-5.02mm			
PGPU		75gf					
PGPU		91gf					
PGPJS	6mm	150gf	4.98-5.00mm	5.00-5.02mm			
PGPJ		200gf					
PGPT	3mm	215gf	4.98-5.00mm	5.00-5.02mm			

Ordering Example: Part Number - P
PGPR - 4.0

Circuit Board Pusher Pins

CPTJ, CPGJ

Material: Polyacetal (White)

Part Number	L 1mm Increment	Unit Price
CPTJ	49-54	
CPGJ		

Ordering Example: Part Number - L
CPTJ - 51

Circuit Board Rough Guides

CPRG

Material: SPCC
Surface Treatment: Electroless Nickel Plating

Part Number	Unit Price
CPRG	

Ordering Example: Part Number - CPRG

