

NP SERIES – SUBMINIATURE SNAP ACTION SWITCHES WITH PLASTIC ACTUATOR



Features and Advantages:

- Subminiature size: 2.7mm wide
- High precision spring structure, fast switching, long life and excellent touch feel
- Integrally formed terminal structure that prevents flux from seeping up
- Available in different actuator and termination options
- Available in different current ratings and operating forces
- RoHS Compliant

Specifications:

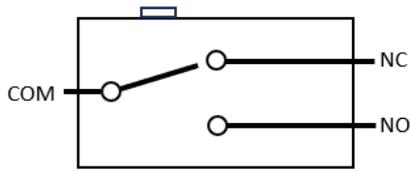
Contact Rating and	0.1A @ 30V DC	1A @ 15V DC	3A @ 30V DC
Material:	Silver alloy	Silver alloy gold plated	Gold alloy
Contact size:	Ø0.6mm	Ø0.6mm	Ø0.8mm
Electrical Life:	20,000 cycles	300,000 cycles	300,000 cycles
Mechanical Life:	20,000 cycles	20,000 cycles	20,000 cycles
Contact Resistance (initial value):	100mΩ Max	100mΩ Max	100mΩ Max
Insulation Resistance:	>100MΩ (500V DC)	>100MΩ (500V DC)	>100MΩ (500V DC)
Dielectric Strength:	250 VAC 50/60Hz for 60 seconds	250 VAC 50/60Hz for 60 seconds	250 VAC 50/60Hz for 60 seconds
Maximum Operating Frequency:	Mechanical: 60/min Electrical: 20/min	Mechanical: 60/min Electrical: 20/min	Mechanical: 60/min Electrical: 20/min
Operating Temperature:	-40°C to 85°C (Below 60%RH)	-40°C to 85°C (Below 60%RH)	-40°C to 85°C (Below 60%RH)
IP Rating:	IP40	IP40	IP40
Weight:	0.3g	0.3g	0.3g

Notes: Mechanical life test is performed under a standard pressing force of 150g to simulate actual use.

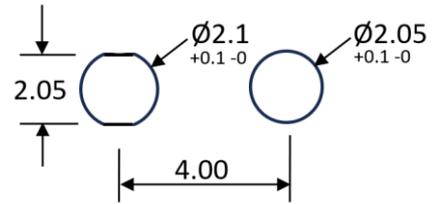
Part Number Coding:

SERIES	CURRENT	MOUNTING TYPE	ACTUATOR	TERMINATION TYPE	TERMINATION SHAPE	TERMINATION LENGTH	OPERATING FORCE	BUTTON COLOR
NP	A=0.1A B=1A C=3A	0=Holes 1=None 2=Posts	See Chart	See Chart	C=  S= 	3=3.2mm 4=4.0mm 5=5.1mm 5=6.1mm	15=15gf 30=30gf 60=60gf 110=110gf	W=White B=Brown

NP SERIES - SUBMINIATURE SNAP ACTION SWITCHES WITH METAL ACTUATOR



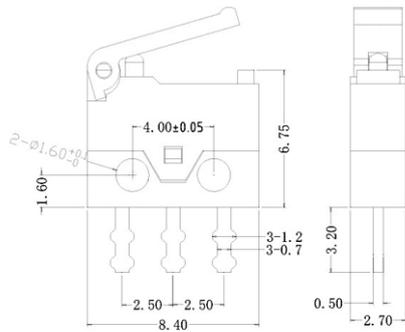
Schematic - SPDT



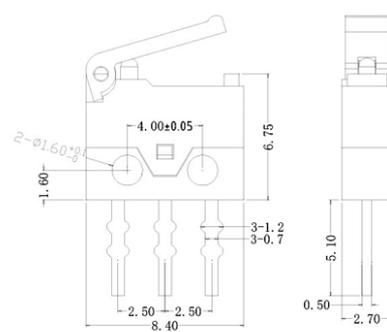
Mounting Holes for posts

Termination Options:

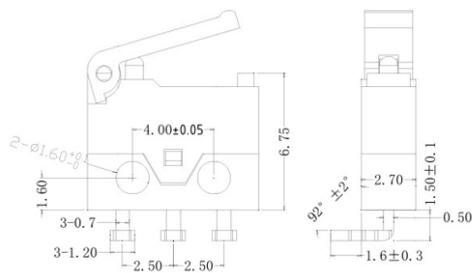
P PCB Pin



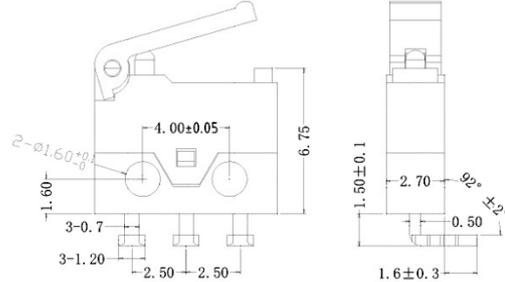
PL PCB Pin - Long



L PCB Pin -Left

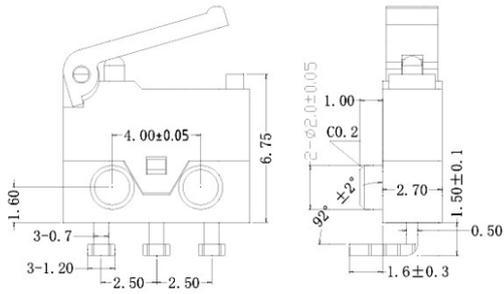


R PCB Pin - Right

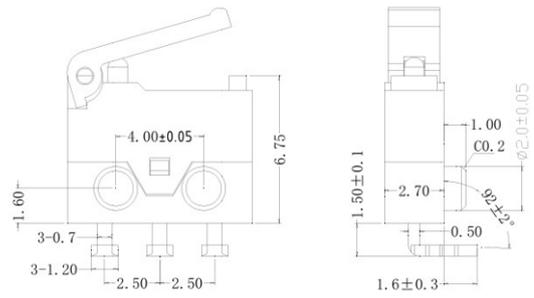


Termination Options:

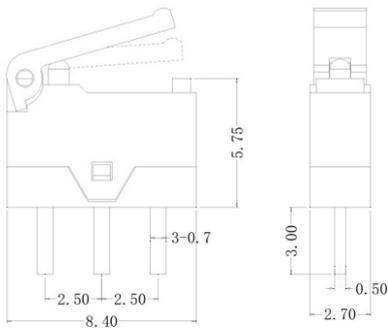
LP PCB Pin – Left (w/ mounting posts)



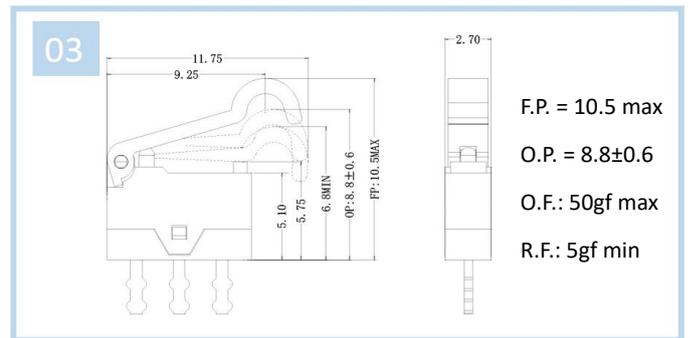
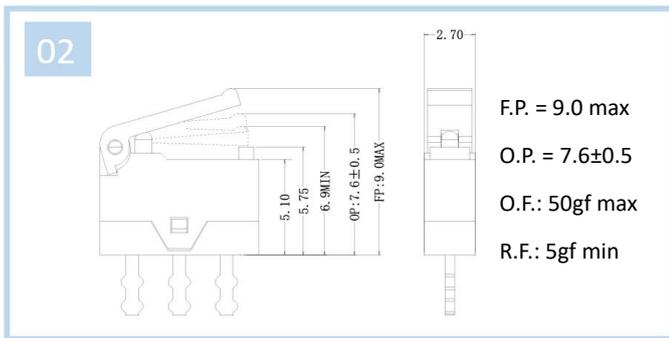
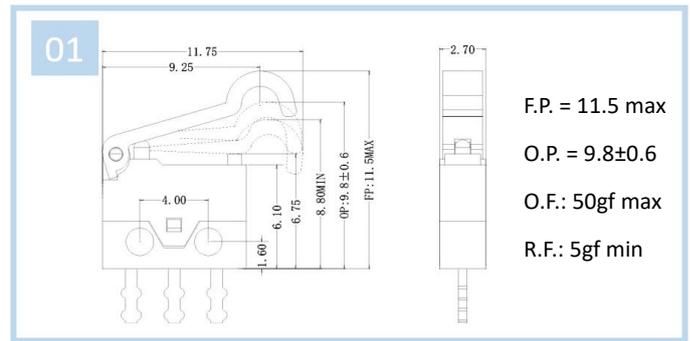
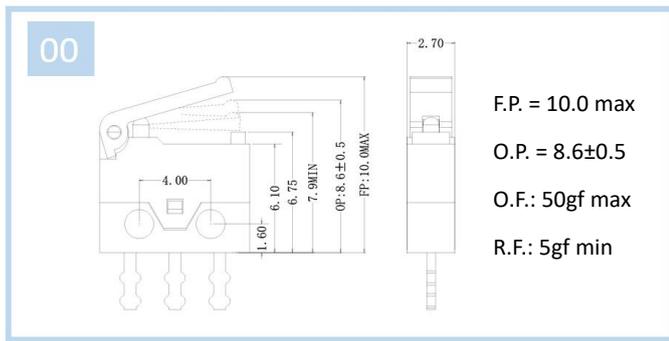
RP PCB Pin -Right (w/ mounting posts)



NP PCB Pin – No mount post



Actuator Options:



Notes:

1. All dimensions in mm.
2. P.T.=Pre-Travel, F.P.=free position, O.P.=operating position, O.F.=operating force, R.F.=return force
3. Do not exceed 300°C solder temperature. Solder within 3s to avoid damaging the components. Do not exert external force within 1 min after soldering.
4. Specifications subject to change without notice.