

MA SERIES – MINIATURE SNAP ACTION SWITCHES



Specifications:

Contact Rating and Material:	1A @ 125/250V AC Silver alloy	5A @ 125/250V AC Silver alloy	10A @ 125/250V AC Silver alloy
Contact size:	Ø1.6mm	Ø2.0mm	Ø2.4mm
Electrical Life:	1,000,000 cycles	1,000,000 cycles	1,000,000 cycles
Mechanical Life:	6,000 cycles	10,000 cycles	10,000 cycles
Contact Resistance (initial value):	50mΩ Max	50mΩ Max	50mΩ Max
Insulation Resistance:	>100MΩ (500V DC)	>100MΩ (500V DC)	>100MΩ (500V DC)
Dielectric Strength:	1500 VAC 50/60Hz for 60 seconds	1500 VAC 50/60Hz for 60 seconds	1500 VAC 50/60Hz for 60 seconds
Maximum Operating Frequency:	Mechanical: 100/min Electrical: 30/min	Mechanical: 100/min Electrical: 30/min	Mechanical: 100/min Electrical: 30/min
Operating Temperature:	-25°C to 125°C (Below 60%RH)	-25°C to 125°C (Below 60%RH)	-25°C to 125°C (Below 60%RH)
Weight:	0.3g	0.3g	0.3g

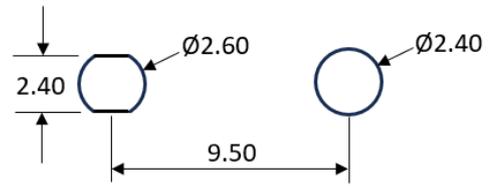
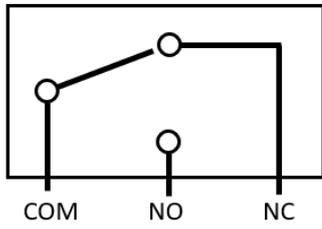
Features and Advantages:

- Subminiature size: 8.4mm (L) x 6.55mm (H) x 2.7mm (W)
- High precision spring structure, fast switching, long life and excellent touch feel
- Integrally formed terminal structure that prevents flux from seeping up
- Available in solder lug, 0.110" quick connect, PCB pin termination options
- Available in pin plunger, lever, roller actuator options
- Available in different current ratings and operating forces
- Terminal structure is parallel to the switching body, which is convenient for welding
- UL/CUL/TUV/CQC Certifications
- RoHS Compliant

Part Number Coding:

SERIES	CURRENT	ACTUATOR	TERMINATION	OPERATING FORCE	CIRCUIT	BUTTON COLOR	CONTACTS
MA	A=1A B=5A C=10A	See Chart	See Chart	15=15gf 25=25gf 50=50gf 100=100gf 150=150gf 250=250gf	1=SPDT 2=SPST (N.O.) 3=SPST (N.C.)	B=BLACK Y=YELLOW W=WHITE	S=SILVER ALLOY G=GOLD PLATED

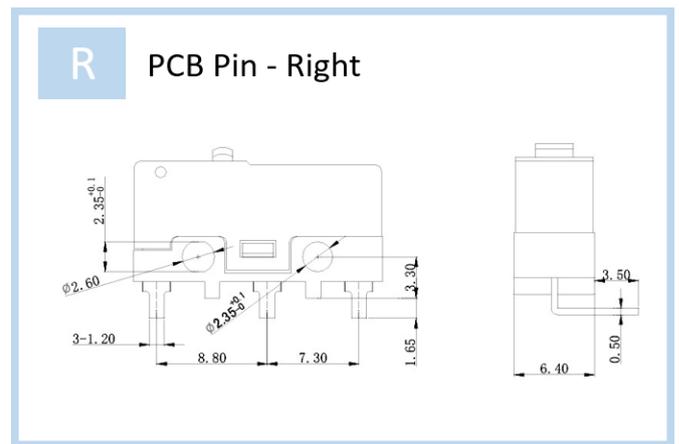
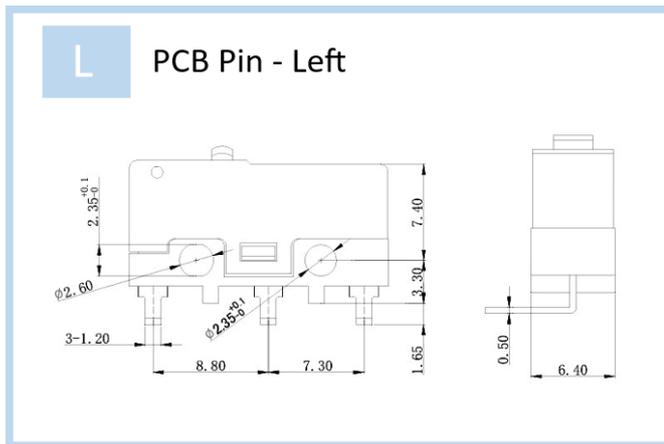
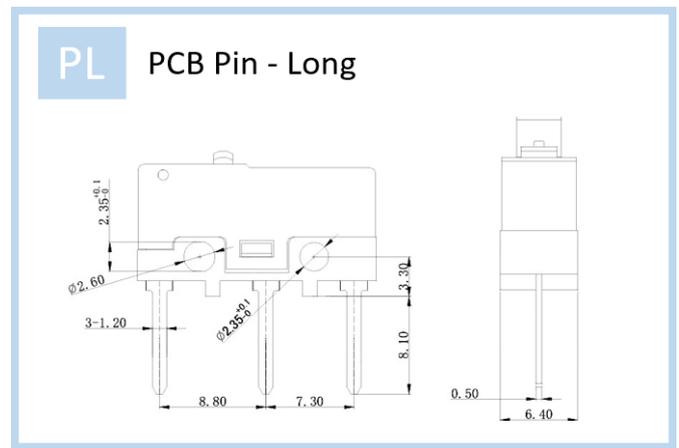
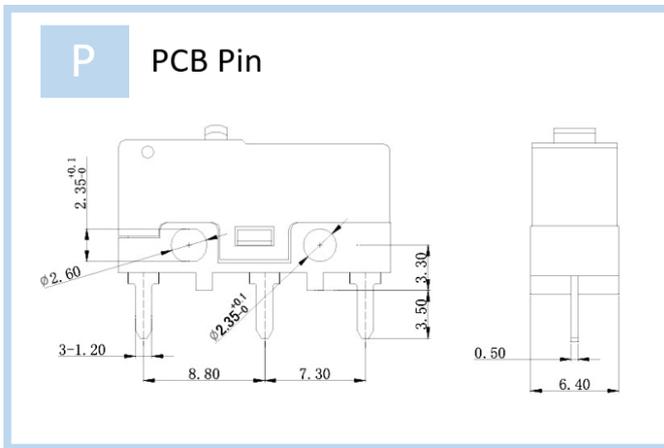
MA SERIES - MINIATURE SNAP ACTION SWITCHES



Schematic - SPDT

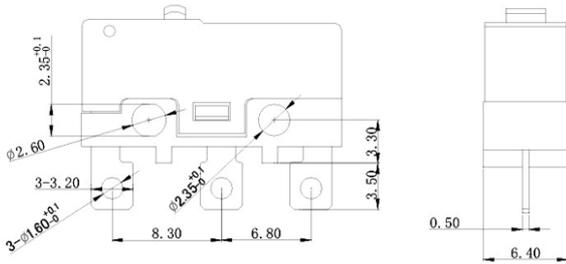
Mounting Holes for posts

Termination Options:

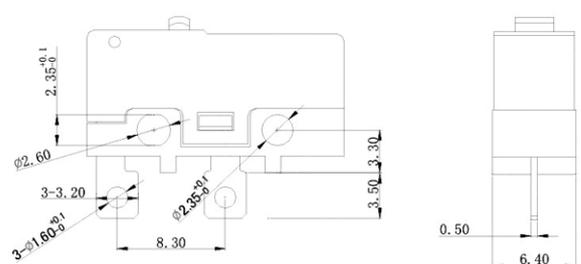


Termination Options:

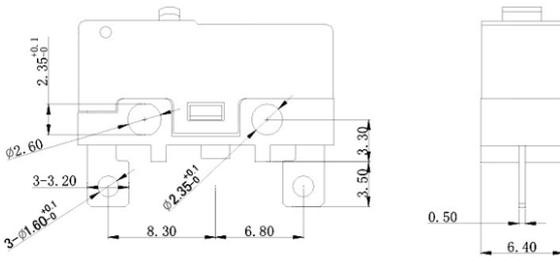
S Solder Lug



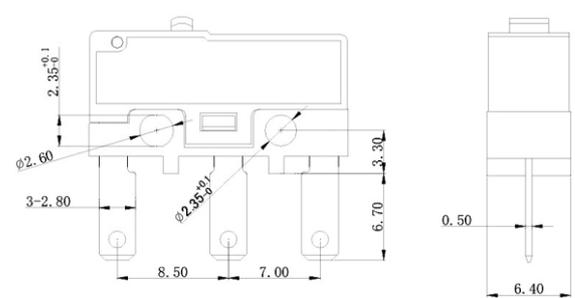
SO Solder Lug (Normal Open)



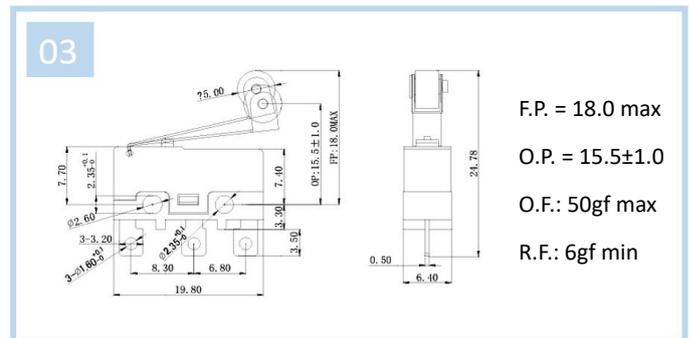
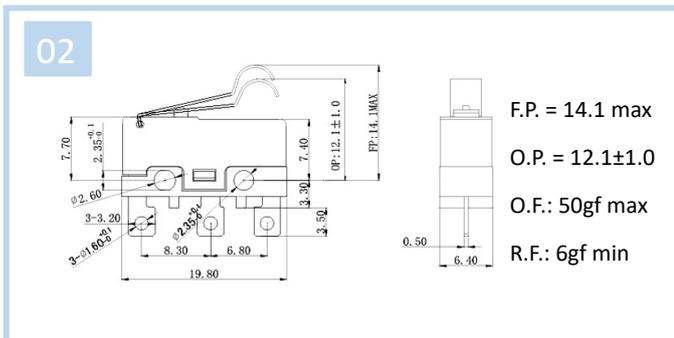
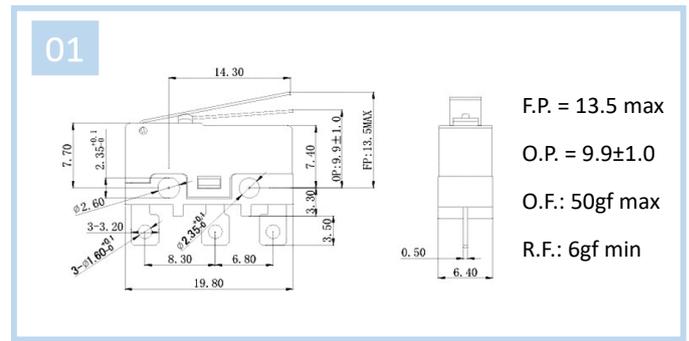
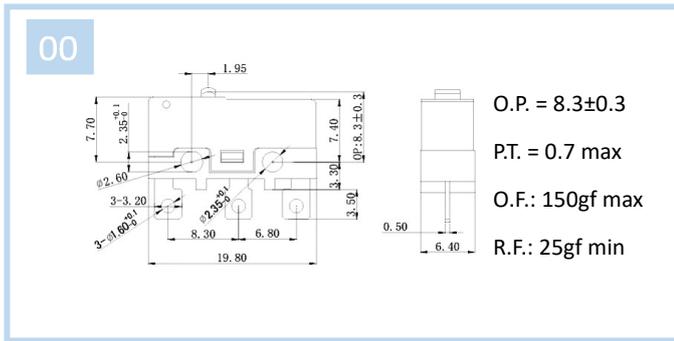
SC Solder Lug (Normal Closed)



Q 110 Quick Connect



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 400°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.