# Long stroke type micro switch MSS-100/101 Series

1/4

### Features

- Long stroke type micro switch that can be pushed diagonally.
- ◆Stroke 2.6mm or more without actuator.
- Superior reliability at micro-current by employing a sliding contact.
- ⇒Supports boss press-fit type and screw-fastening type mounting forms.
- Customized actuators are available.
- Customizable for dust-proof and drip-proof types.





MSS-100A-A

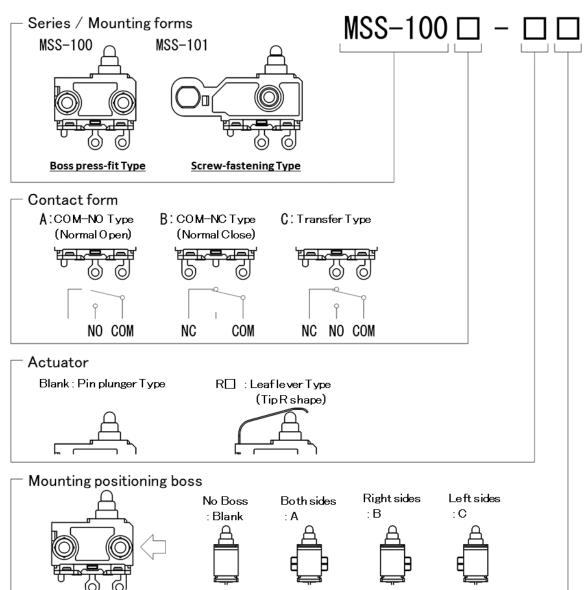
MSS-100A-R1C

## Applications

- Home appliances (Air-conditioner, Washing machine, Cleaner etc.)
- For car (Shifter unit etc.)



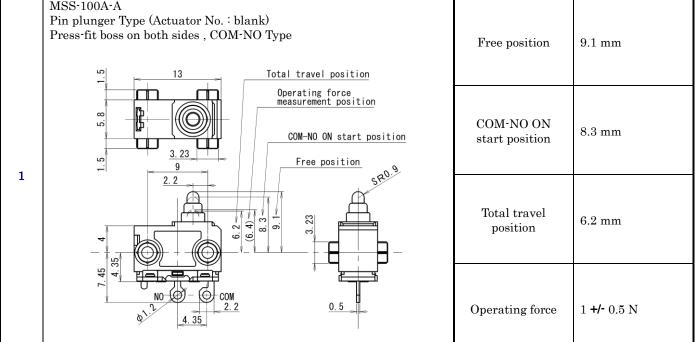
## Products Number system



■ Typical Specifications

Item	Specifications		
Operating force (Pin plunger type)	1 +/- 0.5N		
Ratings (Resistive load)	Max. DC 12V 100mA Min. DC 5V 0.05mA (Resistive load)		
Mechanical life	300,000 cycles		
Electrical life	300,000 cycles		
Contact resistance (Initial)	MAX 100 milliohm		
Insulation Resistance	DC 500V MIN 100 megohm		
Withstanding voltage	Between non-continuous terminals Between each terminal and other exposed metal parts Between each terminal and ground	: 500V AC 1min : 500V AC 1min : 500V AC 1min	
Operating temperature range	-40 to +85 degree Celsius		
Storage temperature range	-40 to +85 degree Celsius		

Dimensions Unit : mmNo Style Operating characteristics MSS-100A-A Pin plunger Type (Actuator No.: blank) Press-fit boss on both sides, COM-NO Type Free position 9.1 mm

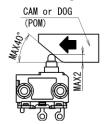


☐ Dimensions Unit: mm

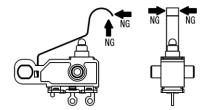
No	Style	Operating characteristics	
2	MSS-100A-R1C Leaf lever type with tip R shape (Actuator No.: R1) Press-fit boss on left side, COM-NO Type  13 Total travel position Operating force	Free position	9.7 mm
	Operating force measurement position  COM-NO ON start position  Free position  3.23	COM-NO ON start position	8.65 mm
	NO COM 2.2 4.35	Total travel position	6.4 mm
		Operating force	Max5 N
3	Leaf lever type with tip R shape (Actuator No.: R2) Screw-fastening Type (boss on both sides), COM-NO Type  Operating force measurement position  COM-NO ON start position  Free position  Free position  Output  Com-No ON start position  Com-No ON start position  Free position  Output  Com-No ON start position  Free position  Output  Com-No ON start position  Free position	Free position	17.1 mm
		COM-NO ON start position	14.18 mm
		Total travel position	10.28 mm
		Operating force	Max4 N

#### Notes

- 1. The appearance and specifications of the product may be modified without prior notice to improve its performance.
- 2. This catalog shows only outline specifications. When using the product, please obtain formal specifications.
- 3. Please see appendix [Cautions in Using Switches].
- 4. Fix the switch of screw-fastening Type by M3 screw with torque less than 29 N-cm. Fixing with spring washers and adhesive are recommended to avoid the loose of the screw.
- 5. Please note that it is not possible to use the return force of the switch as the driving force of the mechanical part of the set.
- 6. Please be careful not to pull, scratch or pinch the rubber cap. It will cause damage.
- 7. When using a cam when operating the switch, the durability of the switch is affected by the operating conditions. (operating speed, operating frequency, amount of depression of the operation, material and shape of the cam, etc.) Please check the actual operating conditions.



8. Please be careful not to apply a load to the actuator from other than the operating direction. It will cause damage to the actuator and switch.



- Please confirm the performance on actual operation by simulation with actual environment environments for high reliability.
- 10. No dust, high humidity and organic gas should be found in the storage location.
- 11. Please remember that this switch cannot be used under water. Also, please be warned that switching and sudden temperature changes with the presence of water droplets can cause seepage into the switch.