

# KSA & KSL MKII Series

## High Performance Sealed Tactile Switch



### Description

KSA MKII series switch has the highest sealing performance, making it ideal for consumer, automotive and industrial applications that must withstand erosion and harsh environments, such as regular exposure to water. The KSA MKII is also highly responsive due to its excellent tactile feel.

### Features & Benefits

- Highest tact switch sealing performance
- Improved sealing through a modification of the crimping technique and to a double overmolding of the terminal
- Totally sealed
- Up to 1M operations
- RoHS compliant and compatible

### Specifications

Contact Arrangement	SPST, N.O.
Terminals	PC pins
Sealing	IP67

### Electrical Specifications

	Silver	Gold
Maximum Power	1 VA	0.2 VA
Min. / Max. Voltage	20mV - 32VDC	
Min. / Max. Current	1 - 50 mA	1 - 10 mA
Dielectric Strength	$\geq 250$ Vrms	
Contact Resistance	$\leq 100$ m $\Omega$	
Insulation Resistance	(100 V): $\geq 10^9$ $\Omega$	
Bounce Time	$\leq 1$ ms	

### Environmental Specifications

	Silver	Gold
Operating Temperature	-40°C to 85°C	-40°C to 125°C
Storage Temperature	-40°C to 85°C	-55°C to 125°C

### Process

Packaging	Delivered in boxes of 500 pieces (250 pieces for KSL)
Soldering	Wave soldering compatible with lead free soldering profile.

### Applications

- Transportation
- Industrial
- Telecommunication networks
- Household appliances
- Heating control systems

### Mechanical Characteristics

Part #	Actuation Force (N)	Operating Life (operations)	Travel to make (mm)
KSA0M212	$1.3 \pm 0.3$	100,000	$0.5 \pm 0.15$
KSA0M312		1,000,000	
KSA0M412	$3 \pm 0.75$	100,000	$0.6 \pm 0.25$
KSA0M512	$5 \pm 1.25$		$0.7 \pm 0.25$

#### Notes

Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center. Other versions in terms of force, termination length and corrosion protection available. Please contact your sales representative. This data sheet does not provide enough information for applications which require a certain level of quality or safety such as automotive, medical systems, safety equipment. Please contact your sales representative to get contractual specification package.

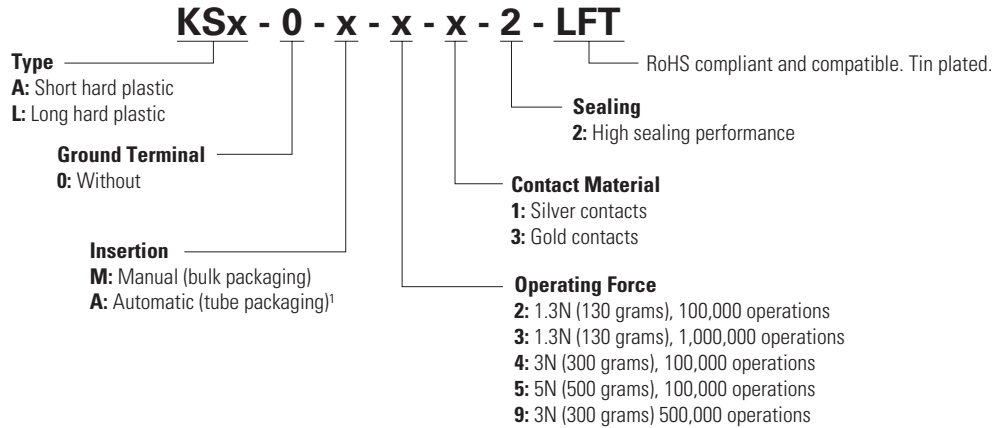
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### Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. However, please note that all the combinations of these options are not feasible. For any part number different from those listed above, please consult your local representative.

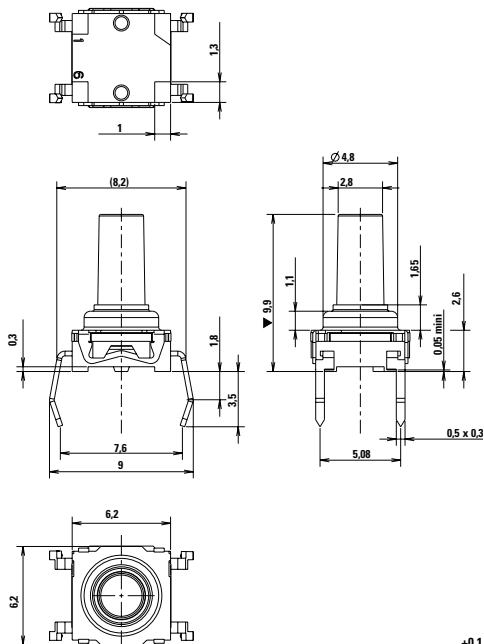


#### Notes

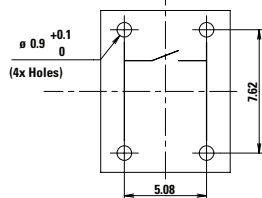
1. Only available for KSA series

### Manual Insertion Dimensions (mm)

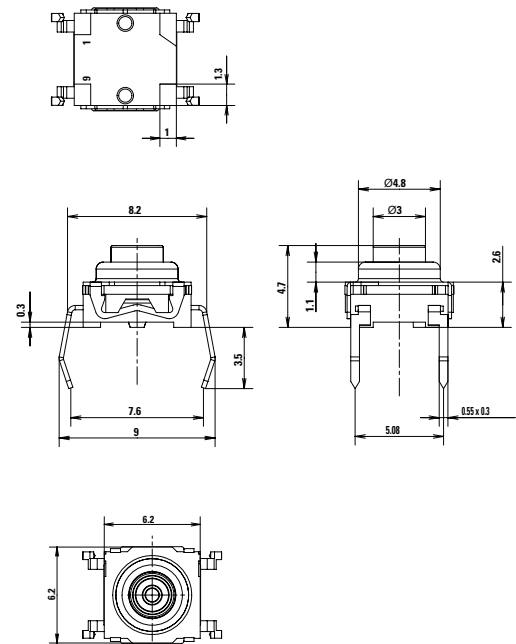
#### KSA



Recommended PCB  
(component side)



#### KSL

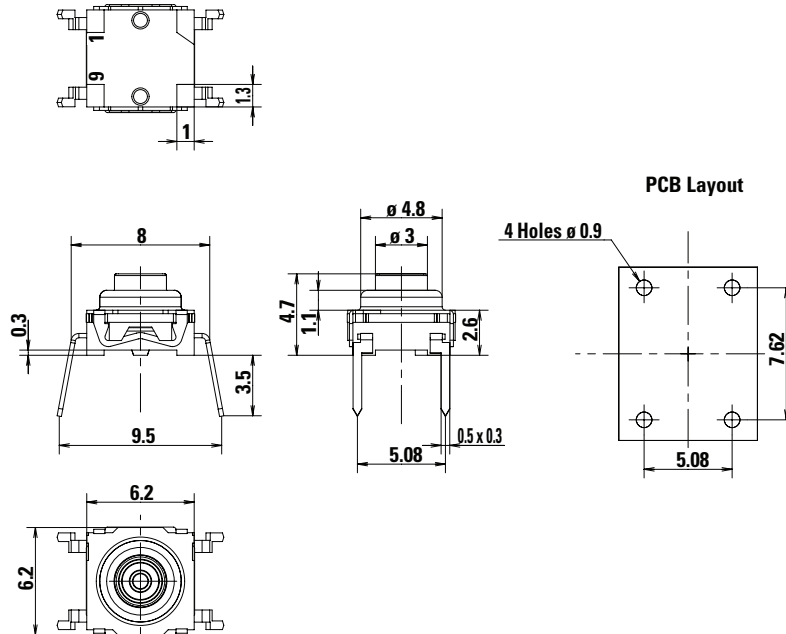


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### KSA Automatic Insertion



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