

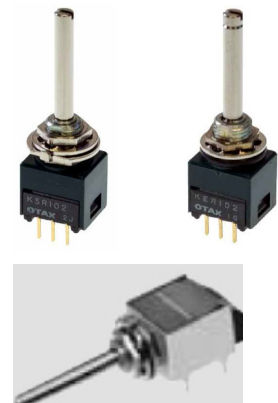
DIP Switch

KS/KE Series

DIP Rotary

Through Hole

10/16 Position
Real/
Compliment



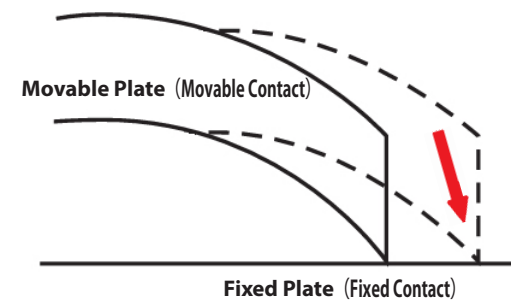
Outline of the Series

This is the flagship DIP switch series from OTAX Corporation, a global leader in DIP switch production.

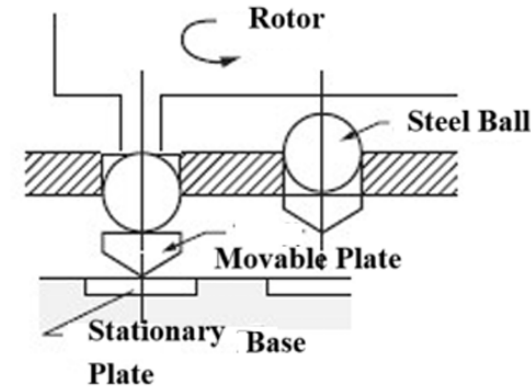
Features of the Series

This compact DIP rotary switch is designed for PCB mounting and features a knife-edge, high-pressure contact mechanism combined with a smooth-turning steel ball detent system, ensuring stable contact and long operational life. The shaft-sealed (waterproof) type is compatible with flux cleaning processes.

- Knife-edge High-pressure Contact
- Stable and Sure Contact Mechanism by Steel Balls



The knife-shaped tip of the movable contact penetrates into the fixed contact, providing a contact structure that is highly resistant to surface contamination and foreign particles.



Common Specifications

Ratings		Specifications of Materials		
Contact Resistance	0.4VA DC20V Max. 50 mΩ Max. (Initial value)	Part Name	Materials	Finish
Withstanding Voltage	AC300V 1 Minute	Case	PPS	Black
Insulating Resistance	1,000MΩ Min.	Frame	PPS	Black
Electrical Life	20,000 steps	Terminals	Copper Alloy	Gold Flash
Operating Temperature Range	-30℃ ~ +85℃	Movable Plate (Movable Contact)	Copper Alloy	Gold Plating
Storage Temperature Range	-30℃ ~ +85℃	Fixed Plate (Fixed Contact)	Copper Alloy	Gold Flash
Storage Humidity Range	85%RH Max., no condensation	Steel Ball	SUJ2	-
Operating Force	98mN · m Max.	Shaft	Brass	Nickel
		O-ring	FPM	
		Hand-soldering Conditions	400℃ ±10℃ 4±1 sec.	
		Flow Soldering Conditions	Pre-heat : 100 ~ 105℃ 30±5 sec. Solder Temp. : 265±3℃ 8±2 sec.	

Cautions on Handling Products

- Alcohol-based, petroleum-based, ketone-based, and chlorine-based cleaning solvents can be used.
- At the time of delivery, the rotor of the real code type is set to position "0" for both 10- and 16-position models. For the complement code type, the initial rotor position is "7" for the 10-position model and "F" for the 16-position model. Please maintain these positions throughout the mounting, soldering, and cleaning processes.

3. This product is RoHS compliant.

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Product Designations

Shape of Operational-part		Encoding	Number of Steps/ Operational-part		Direction of Operational-part	Supporter	
K	S	R	1	0	4		
Series Name							
Shape of Operational-part	Symbol	Code	Symbol	Poles	Symbol	Direction of Operational-part	Symbol
Shaft	S	Real	R	10-position	104	Vertical	(none)
Splash-proof shaft	E	Compliment	C	16-position	164	Horizontal	H
						Supporter	Symbol
						Not applied	(none)
						Applied	S

Contained Q'ty in 1 Box

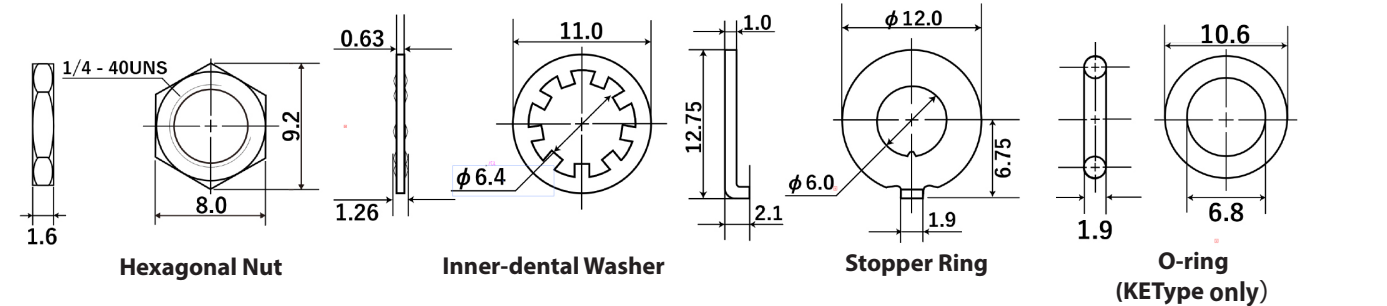
KSR/KSC/KER/KEC
25 x 40 Case = 1,000 pcs

Code

↓ shows the position upon delivery.

■ Binary Coded Decimal Real Code		Position	■ Binary Coded Hexadecimal Real Code		Position
		0 1 2 3 4 5 6 7 8 9			0 1 2 3 4 5 6 7 8 9 A B C D E F
1		●	1		●
2		●	2		●
4		●	4		●
8		●	8		●
■ Binary Coded Decimal Compliment Code		Position	■ Binary Coded Hexadecimal Compliment Code		Position
		0 1 2 3 4 5 6 7 8 9			0 1 2 3 4 5 6 7 8 9 A B C D E F
1		●	1		●
2		●	2		●
4		●	4		●
8		●	8		●

Mounting Parts



※ For the KSC model, only the lower nut is pre-assembled; the remaining accessories are included separately. For all other models, all accessories are pre-assembled.

DIP
Switch

KS/KE
Series

DIP Rotary

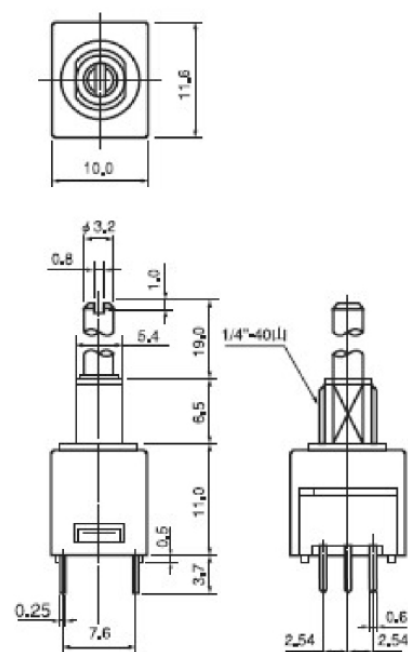
Through Hole

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Standard Dimensions

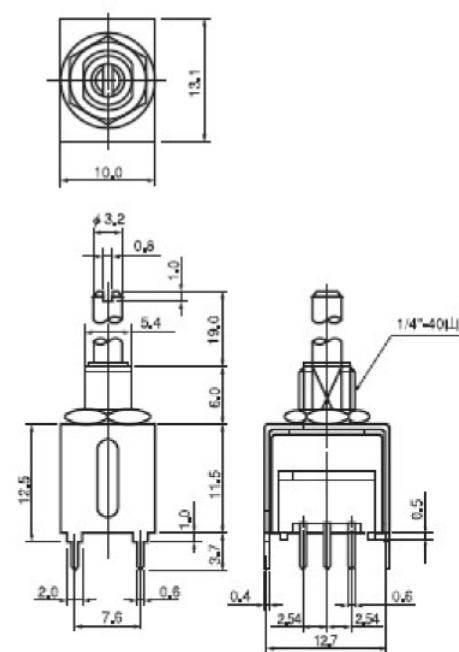
Shaft Type/ Vertical

KS □ □ □ □



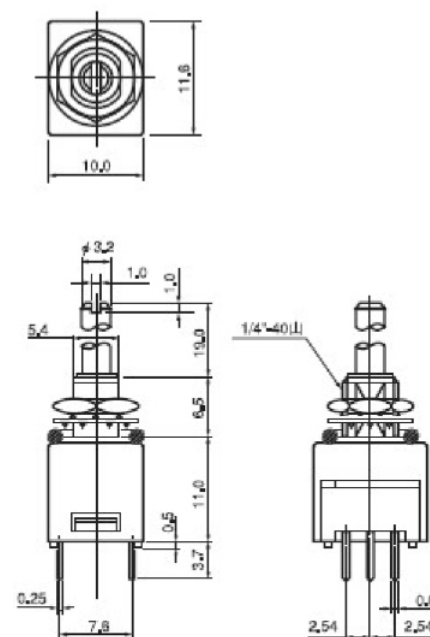
Shaft Type/ With Supporter/ Vertical

KS □ □ □ □ S



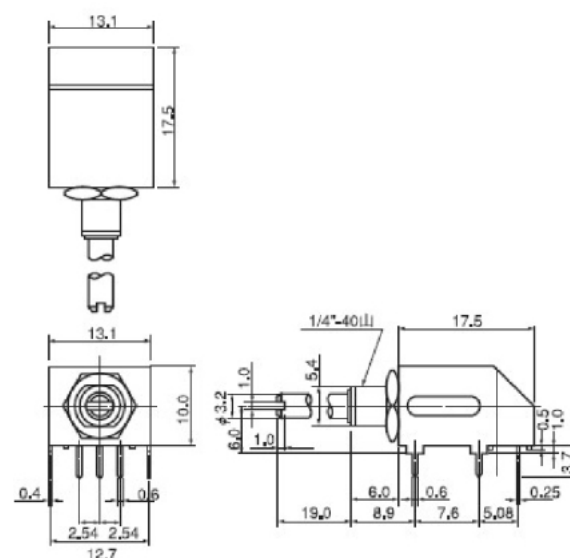
Splash-proof shaftType/ Vertical

KE □ □ □ □



Shaft Type/ With Supporter/ Vertical

KS □ □ □ □ HS



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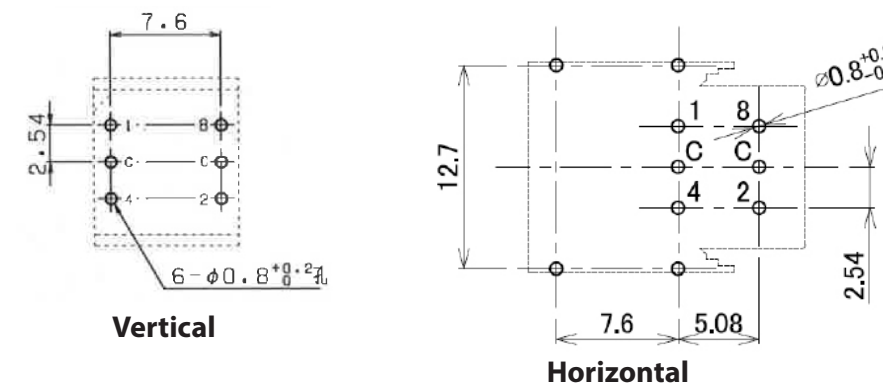
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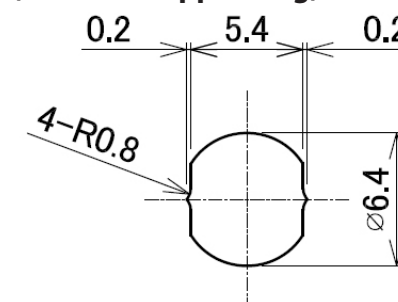
PWB Mounting Hole Dimensions, Panel Mounting Hole Dimensions, Dimensions of Supporters

PCB Mounting Hole Dimensions (As seen from Switch Top)



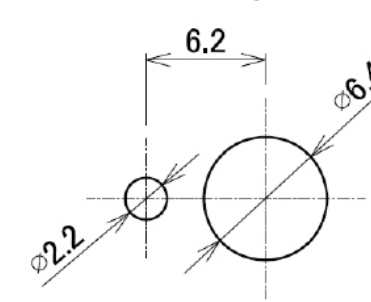
Panel Mounting Hole

(without Stopper Ring)



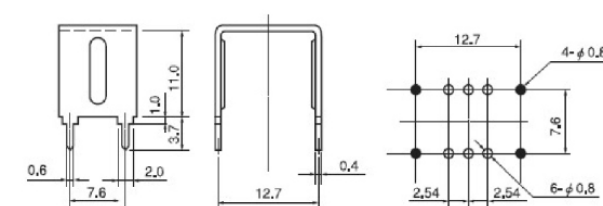
Panel Mounting Hole

(with Stopper Ring)



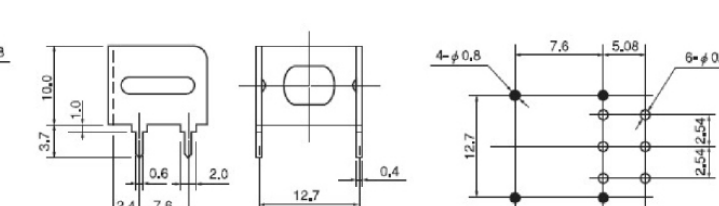
Mounting Hole Dimensions for Vertical

Supporter (● are for Supporter.)



Mounting Hole Dimensions for Horizontal

Supporter (● are for Supporter.)



Optional Knob

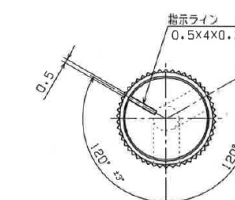
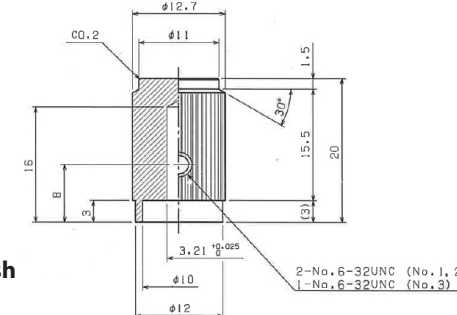
6825-4907

(Black, White Line)

6825-4908

(Silver, Black Line)

Knurled Aluminu Finish



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