



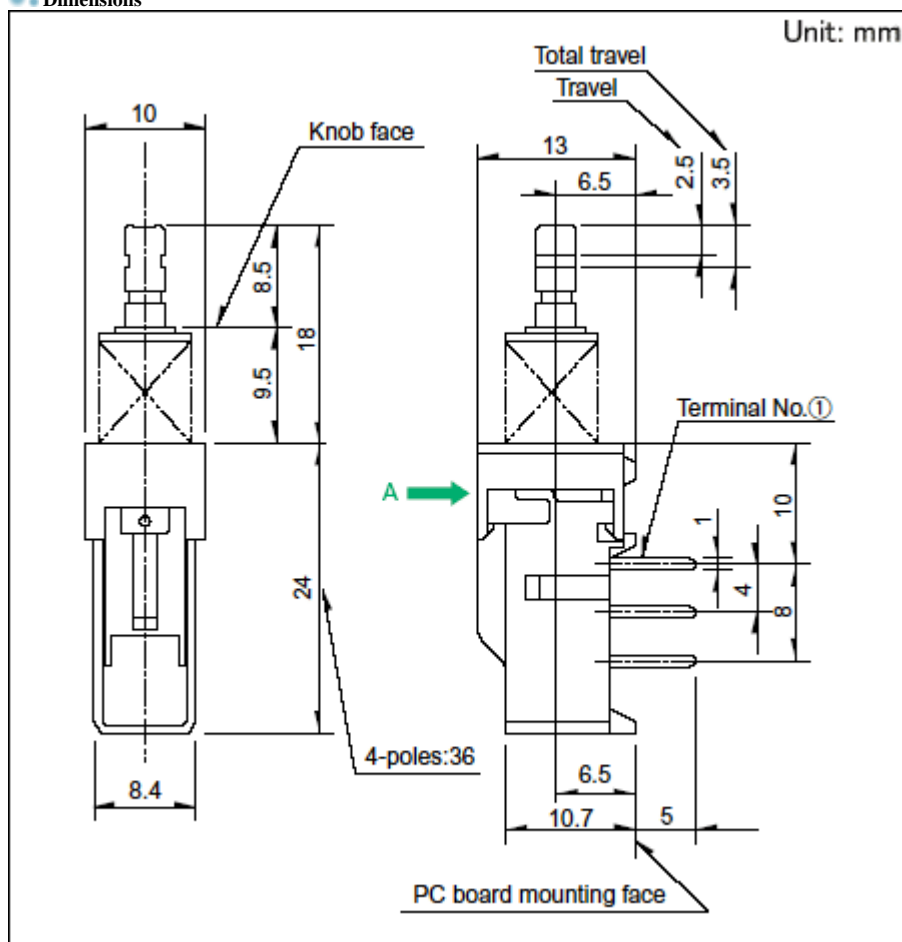
ALPS Manufacturer of Electronic Components/Parts Catalog

2.5mm-travel Large-sized Horizontal Type Push Switch SPUN Series

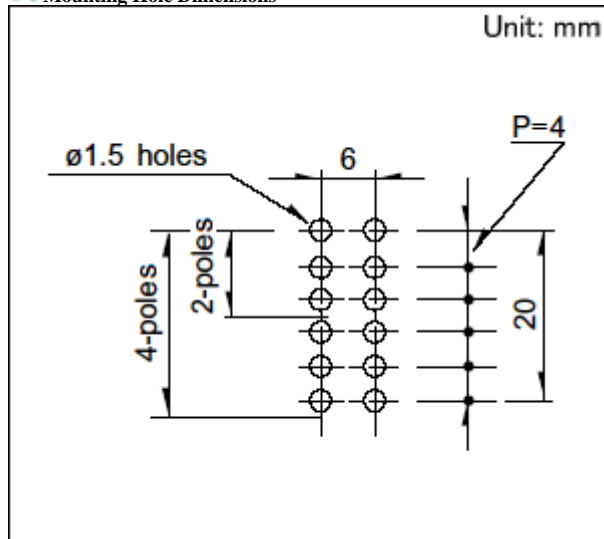
Detail

Part number		SPUN191400	
Changeover timing		Non shorting	
Travel		2.5mm	
Total travel		3.5mm	
Ratings		Standard	
Operating force		2±1N	
Mounting method		PC board	
Poles		2	
Operation		Latching	
Terminal style		Straight	
Minimum order unit (pcs.)		1,250	
Operating temperature range		-10°C to +60°C	
Rating (max.)/(min.) (Resistive load)		0.1A 30V DC/50μA 3V DC	
Electrical performance	Contact resistance (Initial performance/After lifetime)		20mΩ max./40mΩ max.
	Insulation resistance		100MΩ min. 500V DC
	Voltage proof		500V AC for 1 minute
Mechanical performance	Terminal strength		5N for 1 minute
	Actuator strength	Operating direction	50N
		Pulling direction	50N
	Resistance to soldering heat	Manual soldering	350±10°C, 3(+1, 0)s
		Dip soldering	260±5°C, 10±1s
Durability	Operating life without load		30,000 cycles 40mΩ max.
	Operating life with load (Load: as ratings)		10,000 cycles 40mΩ max.
Environmental performance	Cold		-20±2°C for 96h
	Dry heat		85±2°C for 96h
	Damp heat		40±2°C, 90 to 95%RH for 96h

• Dimensions

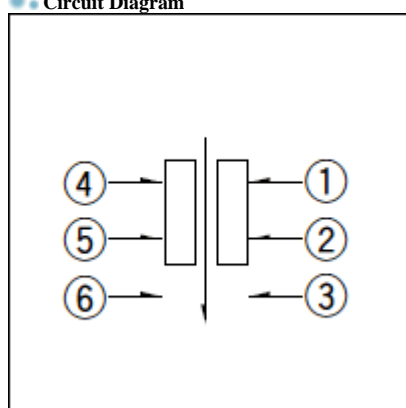


• Mounting Hole Dimensions

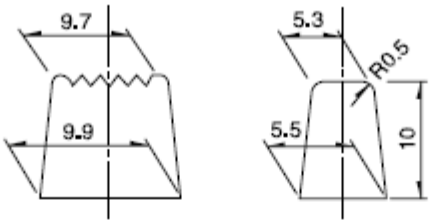
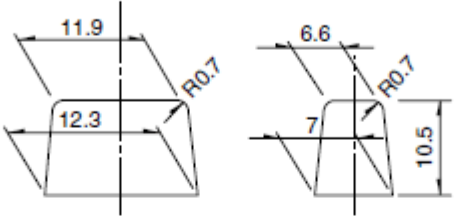
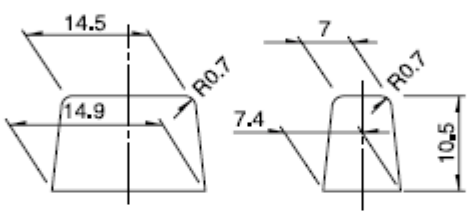
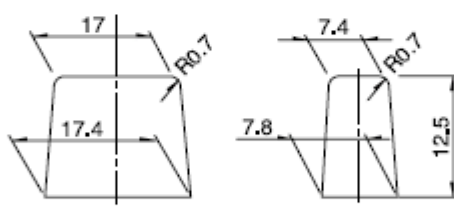
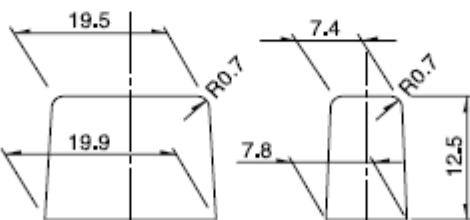
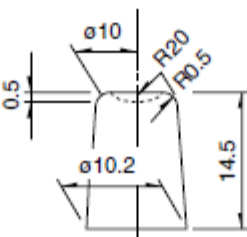


Viewed from direction A in the dimensions.

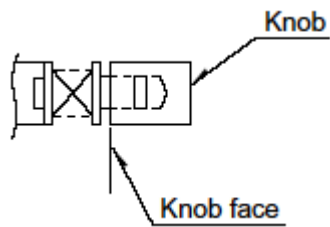
• Actuator Configuration at Front Edge



 Attached Parts

Knob outline drawing (Unit :mm)	Color	Model
<p>Key pitch 10mm</p> <p>Square knob</p> 	<p>Black Red White</p>	<p>4093-1 4093-2 4093-3</p>
<p>Key pitch 12.5mm</p> <p>Square knob</p> 		<p>UE201011 UE201012 UE201013</p>
<p>Key pitch 15mm</p> <p>Square knob</p> 		<p>UE202011 UE202012 UE202013</p>
<p>Key pitch 17.5mm</p> <p>Square knob</p> 		<p>UE203011 UE203012 UE203013</p>
<p>Key pitch 20mm</p> <p>Square knob</p> 		<p>UE204011 UE204012 UE204013</p>
<p>Round knob</p> 		<p>UE200011 UE200012 UE200013</p>

We recommend the use of adhesive to secure the knob when mounting onto switches.

**NOTE**

Notes are common to this series/models.

1. Please place purchase orders per minimum order unit (integer).
2. Products other than those listed in the above chart are also available. Please contact us for details.
3. Please contact us for automotive use.

**Inquiries about Products**

For more information please contact: Products Information Center.

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