

Multi Control Devices Switch Type

8-directional Stick Switch (with Center-push Function) RKJXL Series

Part number **RKJXL100401V**

! Not Recommended for New Designs **?**

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Basic information ▾	Dimensions ▾	Mounting Hole Dimensions ▾	Output Relation Chart between Lever Position and ON Position ▾
Circuit Diagram ▾	Packing Specifications ▾	Soldering Condition ▾	



3D CAD

RoHS

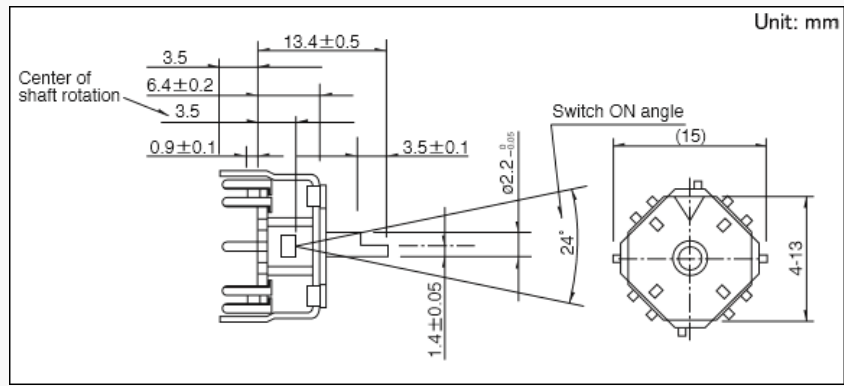
Reference Drawings

Inquiry

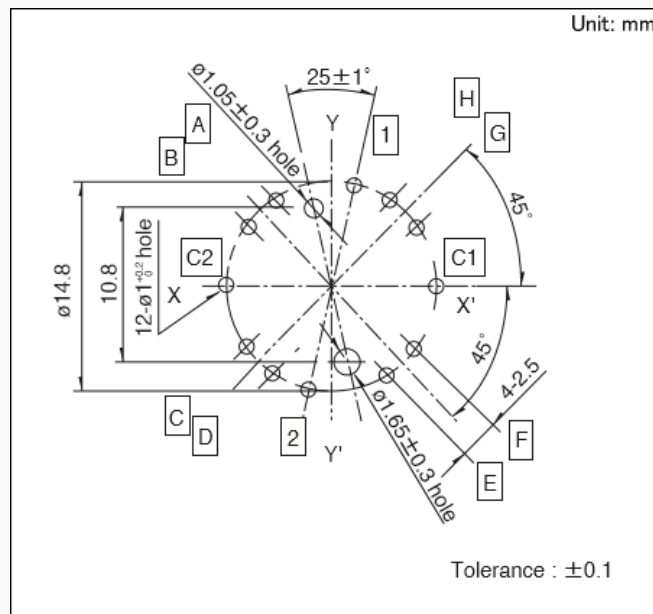
Print

Number of operating shafts	Single-shaft	
Shaft material	Metal	
Directional resolution	8-direction	
Operating angle (Directions)	Each direction 12° ±3°	
Travel (Center push)	0.2±0.1mm	
Dimensions (W×D×H)	13.0×13.0×6.4mm	
Operating temperature range	-30°C to +70°C	
Ratings (max.) (Resistive load)	10mA 5V DC	
Electrical performance	Contact resistance (Directions & Center push)	500mΩ max.
	Insulation resistance	100MΩ min. 250V DC
	Voltage proof	300V AC for 1 minute or 360V AC for 2s
Mechanical performance	Directional operating force	10±7mN·m
	Push operating force	4.5±1N
	Actuator strength	Push/pull directions 100N (Push), 50N (Pull) Operating direction 100N
Durability	Operating life	Directions Total with 8-direction 100,000 cycles Center push 100,000 cycles
	Environmental performance	Cold -40°C 500h Dry heat 85°C 500h Damp heat 60°C, 90 to 95%RH 500h
Minimum order unit(pcs.)	Japan	800
	Export	1,600

Dimensions



Mounting Hole Dimensions



Viewed from mounting side.

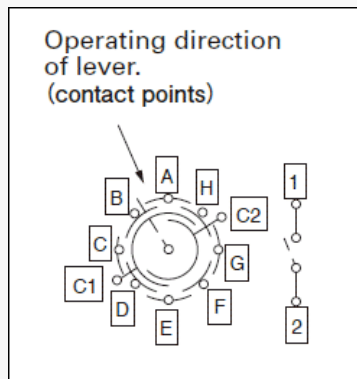
Output Relation Chart between Lever Position and ON Position

Terminal The direction of the operation	A	B	C	D	E	F	G	H	C1	C2	1	2
A	ON								ON			
B		ON							ON			
C			ON						ON			
D				ON					ON			
E					ON					ON		
F						ON				ON		
G							ON			ON		
H								ON		ON		
Center Push											ON	ON

Operating direction of lever.

※Shorting areas exist between adjacent terminals
 ※ Between H and A, and D and E, both C1 and C2 are connected

Circuit Diagram



Packing Specifications

Tray

Number of packages (pcs.)	
1 case / Japan	800
1 case / export packing	1,600

Export package measurements (mm)

532 × 379 × 167

Soldering Condition

Reference for Dip Soldering

Preheating

Soldering surface temperature	120°C max.
Heating time	70s max.

Dip soldering

Soldering temperature	260°C max.
Soldering time	6s max.

No. of solders

2 time max.

Reference for Hand Soldering

Tip temperature

350±5°C

Soldering time

3s max.

No. of solders

1 time

Notes are common to this series/models

1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Please place purchase orders per minimum order unit (integer).
3. This products can be used in vehicles.
Although these products are designed to perform over a wide operating temperature range, please ensure that you receive and read the formal delivery specifications before use.

Cautions

1. Applying load to terminals during soldering under certain conditions may cause deformation and electrical property degradation.
2. Avoid use of water-soluble soldering flux, since it may corrode the switches.
3. Check and conform to soldering requirements under actual mass production conditions.
4. In soldering twice, make sure the solder joints should go down to normal temperature. Continuing heating will cause deformation of switch, loose and fracfored terminals, or may deteriorate electrical characteristics.
5. Flux from around and above the PC board should not adhere to the switches.
6. For the sizes of holes and patterns on a PC board for mounting a switch, refer to the recommended dimensions in the outline drawings.
7. This switch is designed for manually operated units. Must not use this switch for a mechanical detection unit. For detection purposes, please use our detection switches.
8. After mounting the switches, if you intend to put the board into an oven in order to harden adhesive for other parts, please consult with ALPS.

9. Use of a through-hole PC board, or a PC board of different thickness from the recommendation will have a different heat stress. Verify the soldering requirements thoroughly before use.
10. Solder the switches with detent at the detent position. Soldering switches fixed at the center of the detent may deform the detent mechanisms.
11. No washing.
12. Protect small and thin switches from external forces in the set mounting process.
13. Tighten the mounting screws by applying the specified torque. Tightening with a larger torque than the specified one will result in malfunction or breakage of screws.
14. Use of the switches with voltage below 1V DC or current below $10\ \mu\text{A}$ may make contacts unstable.
When using these switches in this way, please consult with us beforehand.
15. The products are designed and manufactured for direct current resistance. Contact us for use of other resistances such as inductive (L) or capacitive (C).
16. The switch will be broken if impact force or a greater stress than that specified is applied. Take a great care not to let the switch be subject to greater stress than specified.
17. Do not apply a force from the side of the stem.
18. Be sure to push the center of switch for "without-stem" type. Extreme care is required for a hinge structure type because the stem press position moves when it is pressed.
19. Insert these switches to the specified mounting surface and mount them horizontally. If not mounted horizontally, these switches will malfunction.
20. Use of the switches in a dusty environment may lead the dusts entering through the openings and cause imperfect contact or malfunction. Take this into account for set design.
21. Corrosive gas if generated by peripheral parts of a set, malfunction such as imperfect contact may occur. Thorough investigation shall be required beforehand.
22. Be aware of dust intrusion into a non dust-proof-type TACT Switch™.
23. Storage
 1. Store the products as delivered, at a normal temperature and humidity, without direct sunshine and corrosive gas ambient. Use them at an earliest possible timing, not later than six months upon receipt.
 2. Store the key switches with the switch in the released position.