



One switch for main power, mode selection and start



Slide

Push

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch[™]

Ratings and Safety Standards

Ite	ms	Specifications		
Rating (max.) (Power)	0.1A 12V DC / 50 µ A 5V DC		
Rating (max.) (Encoder)	0.1A 12V DC		
Contact resistan (Initial / After op		1Ω max.		
Operating life	push-on switch	AC Switch: 10,000 cycles DC Switch: 10,000 cycles		
(Load : as ratings)	Encoder	30,000 cycles		

Product Line

Туре	Circuit	Travel	Operating	Number	Rotational	Mounting	Minimum ord	ler unit (pcs.)	Product No.
Type	arrangement	(mm)	force (N)	of detent	torque	method	Japan	Export	riouuct NO.
Rotary		push-on switch: 1.85mm Encoder: 360° Rotation	push-on switch: $4 \pm 1 \mathrm{N}$	12	Encoder: 2.65±0.8N·cm	Snap-in	336	336	SDDE1C0101

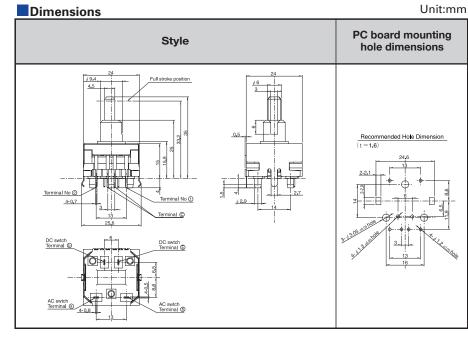
ALPS

Packing Specifications

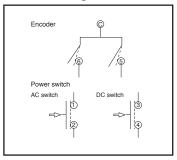
Bulk

Number of pa	nckages (pcs.)	Export package measurements
1 case / Japan	1 case / export packing	(mm)
336	336	411×311×217

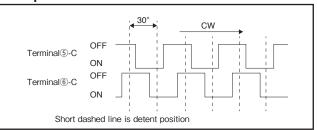




Circuit Diagram



Output Wave



	Туре		Rocker	Slide		Rotary		
Series			SDDJF1A	SDKP	SDKT	SDKZ	SDDE	
Photo		¢	NH.			P.		
Rating			8A / 128A 250V~ 10(6) / 250~	5A 250V AC	6A 125V AC	PS:16 (6) A 250V AC 14 (6) A 250V AC DC:0.1A 12V DC	AC Switch : 1A / 16A 250V ~ DC Switch : 20mA 12V DC Encoders: 0.1A 12V DC	
			10,000cycles	1,000cycles	20,000cycles	10,000cycles (Power) 30,000cycles (Encoder)	AC Switch : 10,000 cycles DC Switch : 10,000 cycles	
Ope	rating life	e	10A 250V AC	Without load	6A 125V AC	16A 250V AC (Power) 0.1A 12V DC (Encoder)	Encoder 30,000 cycles	
Trav	el (mm)	4.6	6	2.2	Endless	Push Switches: 1.85mm Encoders: 360° (360° Rotation)	
Fe	eatures					With Encoders ACSwitch , DCSwitch circuit With Encoder		
	g tempei range	rature	–10℃ to +55℃	−10°C to +60°C		−10°C to +70°C	0℃ to +85℃	
uton	notive u	ise	0					
cycl	e (availa	bility)	*3	*3	★1	₹3	3	
Contact resistance			100mΩ max.		10mΩ max.	$\frac{100m\Omega max.(Power)}{1\Omega max.(Encoder)}$	AC Switch : $100m\Omega$ max. DC Switch: $500m\Omega$ max. Encode: 1Ω max.	
rical nance	Insula resista		500MΩ mi	n. 500V DC	1,000MΩ min. 500V DC	500MΩ min. 500V DC (Power) 100MΩ min. 100V DC	AC Switch : 100MΩ min. 500V DC DC Switch : 100MΩ min. 100V DC Encoder: 100MΩ min. 100V DC	
	Voltage proof		2,000V AC for 1minute		1,000V AC for 1minute	(Encoder) 2,000V AC for 1minute (Power) 100V AC for 1minute	AC Switch: 2,000V AC for 1 minute DC Switch: 100V AC for 1 minute	
Terminal strength		inal	50N for 1minute	10N for	1minute	(Encoder) 20N (Power)	AC Switch: 5N for 1 minute DC Switch: 5N for 30s	
anical mance	Operating		051	FON	2011	5N(Encoder)	Encode: 5N for 1 minute	
	Actuator strength	direction Perpendicular	25N 25N	50N 50N	30N 10N	 30N	100N 30N	
		direction	2011	-20±2°C for 96h	1014	-40±2°C for 240h		
ntal	Dry h			85±2℃ for 96h			85±2°C for 240h	
Damp heat			40±2°C, 90to95%RH for 96h			40±2°C, 90to95%RH for 240h		
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Note O indicates applicability to some products in the series.

ALPS

Power Switches Soldering Conditions

Reference for Hand Soldering

Series	Soldering temperature	Soldering time
SDDJE, SDDJF, SDKP, SDDJF1A , SDKZ, SDDE	350±10℃	3+1/0s
SDKT	350±10℃	3±0.5s
SDKR	300±10℃	3±0.5s

Reference for Dip Soldering

(For PC board terminal types and SDDJF rightangle terminal types)

	Dip soldering			
Series	Soldering temperature	Duration of immersion		
SDKR, SDDJE, SDDJF, SDKP, SDKT, SDKZ, SDDE	260±5℃	10±1s		

Power Switches Cautions

- 1. The primary power supply switching is subject to the safety regulations, and the provisions differ by each destination. Consult with us for non-standard use cases.
- 2. An unstable contact may occur if the switch current is lower than 0.5A. For this case, consult with us.
- 3. These power switches were produced for alternating current. For direct current, consult with us.
- 4. Appling load to terminals during soldering under certain conditions may cause deformation and electrical property degradation.
- 5. Avoid use of water-soluble soldering flux, since it may corrode the switches.
- When soldering twice, wait until the first soldered portion cools to normal temperature. Continuous heating will deform the external portions, loosen or dislodge terminals, or may deteriorate their electrical characteristics.
- 7. Before soldering switches with locking mechanism, release the locks. If they are soldered without releasing the locks, the soldering heat may deform the locking mechanism.
- 8. Be sure to release the locks before removing the knobs. Otherwise, the locking mechanism may be broken.
- 9. Be sure to use the switch with forced travel positioned as close to the total travel as possible.
- 10. Tighten the mounting screws by applying the specified torque. Tightening with a larger torque than the specified will result in malfunction or breakage of screws.
- 11. Corrosive gas if generated by peripheral parts of a set, malfunction such as imperfect contact may occur. Thorough investigation shall be required beforehand.
- 12. Storage
 - ①Store 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.
 - ②After breaking the seal, keep the products in a plastic bag to shut out ambient air, store them in the same environment as above, and use them up as soon as possible.
 - ③Do not stack too many switches.

Power Switches Safety Standards

1. Safety Standards Outline

Safety standards are established by a country or an organization representing it to protect general users from electrical shock and fire hazards. It establishes standards for electrical devices and components. For electrical equipment manufacturers, utilizing switches that have been safety-approved ensures the safety of the switch. The use of a safety-approved switch also simplifies at least one part of the process of obtaining certification by safety testing.

2. Major Safety Standards

(1) Electrical Appliance and Material Safety Law

The conventional [Electrical Appliance and Material Control Law] has changed to [Electrical Appliance and Material Safety Law] and has been enforced since April 1, 2001. Electrical appliances are categorized into special electric appliances and parts (formerly Class A) and Electrical appliances other than the special electric appliances (formerly Class B). Special electric appliances are required to receive goodness of fit test at a certified test agency and to store the certificate. Also, penal provisions have been reinforced.

(2) UL (Underwriters Laboratories Inc.) 🔊

Underwriters Laboratories Inc. (UL) is the American safety approving organization. Its purpose is to ensure consumer safety and protect them from fire hazards. State law requires that equipment to be exported to the United States utilize UL approved power switches or power switches meeting UL standards and capable of passing UL tests.

Push Type Rocker Type Slide Type Rotary Type

Detector

Slide

Push

Rotary

Encoders

Power

Dual-in-line

Package Type

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