

100A inrush current compatible, compact and large capacity snap-in type with easy mounting.

Detector

Slide

Push

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch[™]



Ratings and Safety Standards Items **Specifications** UL, CSA 10A 250V AC SEMKO 6A / 96A 250V \sim , 10 (6) / 250 \sim VDE 6A / 96A 250V \sim , 10 (6) / 250 \sim BS 6A / 96A 250V \sim , 10 (6) / 250 \sim Ratings satisfying local electrical appliance and material safety law 125V 10A+

Product Line

	Circuit	Travel	Operating	Mounting	Terminal	F	Marking	Minimum ord	ler unit (pcs.)	Due durat Nie	Drawing
	arrangement	(mm)	force	method	configuration	Frame	(Knob)	Japan	Export	Product No.	No.
					For Lead	Without	W/ithout		2,000	SDDJE11600	1
					Right angle	With	without		1,250	SDDJE12200	2
					For Lead	Without			2,000	SDDJE10300	1
	CDCT		$2 \pm 2N$		Right angle	With	• mark		1,250	SDDJE12300	2
	5751		$3 \pm 2N$		For Lead	Without		1	2,000	SDDJE10700	1
					Right angle	With	IO mark		1,250	SDDJE12400	2
					For Lead	Without	- 0		2,000	SDDJE11200	1
					Right angle	With	mark		1,250	SDDJE12500	2
Push					For Lead	Without	\A/ith aut		2,000	SDDJE31600	3
Туре		3.4		Snap-in	Right angle	With	without	100	1,250	SDDJE32000	5
Rocker					For Lead					SDDJE30100	3
Туре					For PC board	Without			2,000	SDDJE32700	6
Туре					Disktossele		• тагк			SDDJE30200	4
Rotary	DPST		$6\pm3N$		Right angle	With			1,250	SDDJE32100	5
Туре					For Lead					SDDJE30300	3
					For PC board	Without			2,000	SDDJE33300	6
					Dight onglo		IU mark			SDDJE30500	4
					right angle	With			1,250	SDDJE30400	5
					For Lead	Without	– O mark		2,000	SDDJE30700	3

Notes

1. The lead terminals are also used as tab terminals#187 (Use a positive lock connector type).

The lead terminals are used used us torminals for (Ose a positive rock connector type).
The lead terminal type can be mounted onto a board.(Manual soldering required)
Standard products apply Grade V-2 material (Flame Class). For Grade V-0 type please contact us.

4. Products other than those listed in the above chart are also available. Please contact our us for details.

Packing Specifications

Rulk

	Number of pa	ckages (pcs.)	Export package	
Product No.	1 case / Japan	1 case / export packing	measurements (mm)	
SDDJE11600, SDDJE10300, SDDJE10700, SDDJE11200, SDDJE31600, SDDJE30100, SDDJE32700, SDDJE30200, SDDJE30300, SDDJE33300, SDDJE30500, SDDJE30700	400	2,000	411 × 328 × 379	
SDDJE12200, SDDJE12300, SDDJE12400, SDDJE12500, SDDJE32000, SDDJE32100, SDDJE30400	250	1,250	411 ~ 320 ~ 373	

ALPS

SDDJE



10A 250V AC Qualified Type





ALPS



Mounting Hole Dimensions

-		-		
Sau	are-s	han	ed	Hol

Square-shaped Hole		Unit:mm
Thickness of mounting board	Υ ₁	Z
0.75 to 1.25	19.2 ⁰ _0.1	12.0 + 01
1.25 to 2.00	19.4º0.1	12.9 0.1

U-shaped Hole

U-shaped Hole		Unit:mm
Thickness of mounting board	Y ₂	z
0.75 to 1.1	19.5 ⁰ _0.1	
1.1 to 1.7	19.7 º	12.9 ^{+ 0.1}
1.7 to 2	19.9 ⁰ _0.1	









Detector



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Note

Ζ

Verify the performance under actual product conditions before use.

Marking Variety			
Without marking	With ● marking	With I, O marking	With –, O marking

Push Туре Rocker Туре Slide Туре Rotary Туре

Power Switches

List of Varieties

	Туре			Push	Rocker		
	Series		SDKN	SDKR	SDDH	SDDJE ^{※ 1} ※ 2	SDDJF ^{※ 1} ※ 2
	Photo				*		e e
	Rating		0.25A 250V AC 0.5A 125V AC 5mA 5V DC	0.5A 250V AC 1A 125V AC 10mA 5V DC	Rating (max.):4.5A 12V DC (lamp load:27W×2) Rating (min.):10mA 12V DC (Resistive load)	10A 250V AC 6A / 96A 250V~	16A 250V AC 16(6) / 250~
			5,200cycles	100,000cycles		10,000	lcycles
Ор	erating life	e	0.25A 250V AC	0.5A 250V AC	100,000 cycles	10A 250V AC	16A 250V AC
Tra	vel (mm	ı)	9 9.7	1.5	3.7	3.4	5.2
	eatures			Water-proof type With signal circuit	Water-proof (IP68 rating)		
Operati	ng temper range	rature	-20℃ to +60℃	–10°C to +85°C	–15℃ to+80℃	–10°C to +55°C	
Auto	Automotive use				•	0	0
Life cyc	Life cycle (availability)		3	**3	**3	**3	*3
	Cont resist	tact ance	100mΩ max.	$100m\Omega$ max. (ACswitch) $500m\Omega$ max. (DCswitch)	500m Ω max.	100m (Σ max.
Electrical performance	Insula resist	ation ance	100MΩ min. 500V DC	$\begin{array}{c} \text{500M}\Omega\text{min.}\text{500V}\text{DC}\\ (\text{ACswitch})\\ \text{100M}\Omega\text{min.}\text{100V}\text{DC}\\ (\text{DCswitch}) \end{array}$	$10M\Omega$ min. 500V DC	500MΩ mi	n. 500V DC
	Volta pro	age of	600V AC for 1minute	1000V AC for 1minute (ACswitch) 100V AC for 1minute (DCswitch)	500V AC for1minute	2,000V AC	for 1minute
Madaziat	Term strer	inal ngth	50N for 1minute	5N for 1minute	Slider pull-out strength: 100N MIN	50N for for 1minute (lead terminal) 5N for 1minute (right-angle terminal)	60N for 1minut (lead terminal) 10N for 1minute (right-angle terminal)
performance	Actuator	Operating direction	20N	100N		25	ōN
	strength	Perpendicular direction	30N	20N		25	5N
	Co	ld	-30±2℃ for 192h	-20±2℃ for 240h	–15±2°C for 96h	-20±2°0	C for 96h
Environmental performance	Dry h	neat	70±2°C for 192h	85±2°C for 240h	80±2°C for 96h	85±2℃	for 96h
	Damp	heat	40±2℃, 90to95%RH for 192h	60±2℃, 90to95%RH for 1000h	40:	±2°C, 90to95%RH for	96h
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Power Switches Soldering Conditions
Power Switches Cautions
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Notes

1. * 1. Dip soldering can be used on SDDJE for PC board terminal and SDDJF right angle terminal types only.

2. * 2. The operating temperature range for automotive applications can be raised upon request. Please contact us for details.

3. Indicates applicability to all products in the series, while \bigcirc indicates applicability to some products in the series.

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°C	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.
- 6. 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

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