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



Ratings and Safety Standards



Items	Specifications		
C-UL-US	10AGP 250V AC		
SEMKO	6A / 96A 250V~, 10(6)/ 250~		
VDE	6A / 96A 250V~, 10(6)/ 250~		
BS	6A / 96A 250V~, 10(6)/ 250~		
Ratings satisfying local electrical appliance and material safety law	125V 10A+		

Product Line

Circuit	Travel	Operating	Mounting	Terminal	Frame	Marking	Minimum ord	er unit (pcs.)	Product No.	Drawing
arrangement	(mm)	force	method	configuration	Traine	(Knob)	Japan	Export	1100001110.	No.
				For Lead	Without	Without	400	2,000	SDDJE11600	1
				Right angle	With		250	1,250	SDDJE12200	2
				For Lead	Without	● mark	400	2,000	SDDJE10300	1
SPST		3±2N		Right angle	With		250	1,250	SDDJE12300	2
0-01		JTEN		For Lead	Without	IO mark	400	2,000	SDDJE10700	1
				Right angle	With		250	1,250	SDDJE12400	2
				For Lead	Without	–O mark	400	2,000	SDDJE11200	1
				Right angle	With		250	1,250	SDDJE12500	2
		3.4 6±3N	Snap-in	For Lead	Without	Without	400	2,000	SDDJE31600	З
	3.4			Right angle	With		250	1,250	SDDJE32000	5
DPST				For Lead		● mark		2,000	SDDJE30100	З
				For PC board	Without		400		SDDJE32700	6
				Right angle					SDDJE30200	4
					With		250	1,250	SDDJE32100	5
				For Lead			400	2,000	SDDJE30300	З
				For PC board	Without				SDDJE33300	6
				Diset		IO mark			SDDJE30500	4
				Right angle —	With		250	1,250	SDDJE30400	5
				For Lead	Without	–0 mark	400	2,000	SDDJE30700	З

Notes

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

2. The lead terminal type can be mounted onto a board. (Manual soldering required)

3. Standard products apply Grade V-2 material (Flame Class). For Grade V-0 type please contact us.



Detector

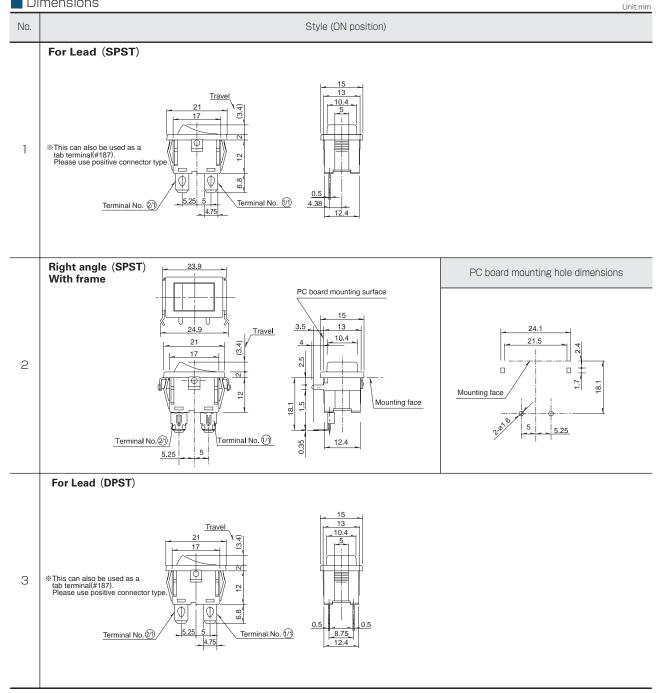
Rotary

SDDJE/10A 250V AC Qualified Type

Packing Specifications

Tray				
Product No	Number of packages (pcs.)		Export package	
	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		

Dimensions



Detector

Push

Power

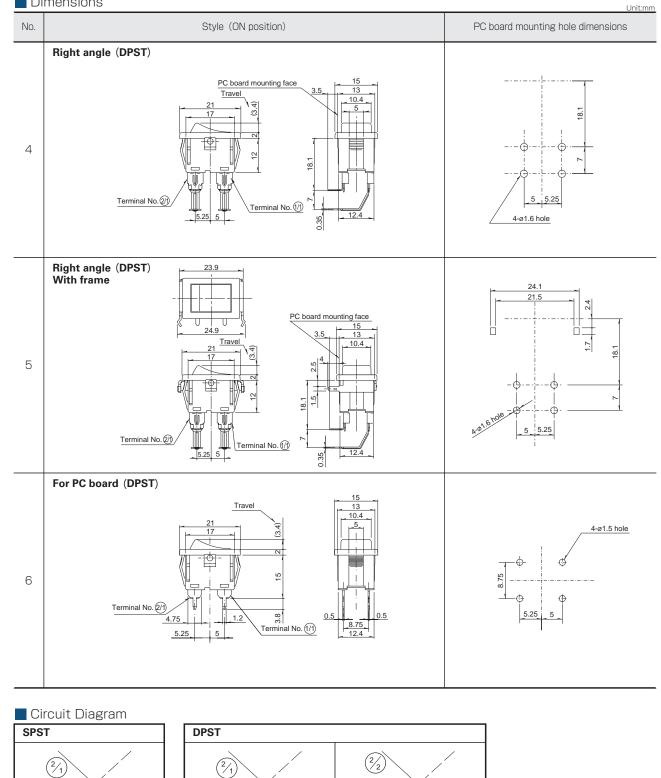
Dual-in-line Package Type

Push Type

Rotary Type

10A 250V AC Qualified Type SDDJE

Dimensions



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Slide

Power

Dual-in-l Package

Type

Push Type

Rotary Type

Detector

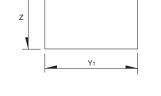
Mounting Hole Dimensions

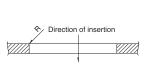
Square-shaped Hole

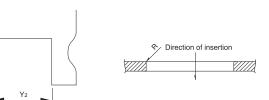
Square-snaped Hole		Unit:mm
Thickness of mounting board	Y١	Z
0.75 to 1.25	19.2 ⁰ _0.1	12.9 ^{+0.1}
1.25 to 2.00	19.4 ⁰ _0.1	12.90

U-shaped Hole

U-shaped Hole Unit:mm					
Thickness of mounting board	Y2	Z			
0.75 to 1.1	19.5 ⁰ - _{0.1}				
1.1 to 1.7	19.7 ⁰ - 0.1	12.9 ^{+0.1}			
1.7 to 2	19.9 ⁰ - 0.1				







Note

Ζ

Verify the performance under actual product conditions before use.

Marking Variety Without marking With Marking With I, O marking With —, O marking 0 0

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Power Switches List of Varieties

Туре			Pu	sh	Rocker	Rotary	
Series			SDKR	SDDH	SDDJE * 1 * 2	SDDE	
Photo				*	*	Man Contraction	
Rating			0.5A 250V AC 1A 125V AC 10mA 5V DC	Rating (max.): 4.5A 12V DC (Lamp load: 27W×2) 10AGP 250V AC Rating (min.): 10mA 12V DC (Resistive load) 6A / 96A 250V-		AC Switch: 1A / 16A 250V ~ DC Switch: 20mA 12V DC Encoders: 0.1A 12V DC	
			100,000cycles	100.000	10,000cycles	AC Switch: 10,000 cycles DC Switch: 10,000 cycles	
Up	erating life		0.5A 250V AC	100,000 cycles	10A 250V AC	Encoder 30,000 cycles	
Tr	avel (mm)		1.5	3.7	3.4	Push Switches: 1.85mm Encoders: 360° (360° Rotation)	
F	eatures		Water-proof type With signal circuit	Water-proof (IP68 rating)	_	AC Switch, DC Switch, With Encoder	
Operating	temperatur	e range	−10℃ to +85℃	−15℃ to+80℃	−10℃ to +55℃	0°C to +85°C	
Automotive use		Э	_	•	_	_	
Life cycle (availability)		ility)	*3	*3	**3	*3	
Electrical performance	Contact resistance		100m Ω max. (AC switch) 500m Ω max. (DC switch)	500mΩ max.	100mΩ max.	AC Switch: $100m\Omega$ max. DC Switch: $500m\Omega$ max. Encoder: 1Ω max.	
	Insulation resistance		500MΩ min. 500V DC (AC switch) 100MΩ min. 100V DC (DC switch)	10MΩ min. 500V DC	500MΩ min. 500V DC	AC Switch: $100M\Omega$ min. $500V$ DC DC Switch: $100M\Omega$ min. $100V$ DC Encoder: $100M\Omega$ min. $100V$ DC	
	Voltage proof		1000V AC for 1minute (AC switch) 100V AC for 1minute (DC switch)	500V AC for 1minute	2,000V AC for 1minute	AC Switch: 2.000V AC for 1 minute DC Switch: 100V AC for 1 minute Encoder: 100V AC for 1 minute	
	Terminal strength		5N for 1minute	Slider pull-out strength: 100N min.	50N for 1minute (Lead terminal) 5N for 1minute (Right-angle terminal)	AC Switch: 5N for 1 minute DC Switch: 5N for 30s Encoder: 5N for 1 minute	
Mechanical performance	Actuator strength	Operating direction	100N	_	25N	100N	
		Perpendicular direction	20N	_	25N	30N (Retract direction)	
Environmental performance	Cold		-20°C 240h	-15℃ 96h	-20℃ 96h	-40°C 240h	
	Dry heat		85℃ 240h	80°C 96h	85°C 96h	85°C 240h	
	Damp heat		60°C, 90 to 95%RH 1000h	40°C, 90 to 9	95%RH 96h	40°C, 90 to 95%RH 240h	
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 Power Switches Cautions
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 Power Switches Safety Standard
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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 can be raised upon request. Please contact us for details.

3. Indicates applicability to all products in the series.



Slide

Power Switches / Soldering Conditions

<u> </u>					
Series	Soldering temperature	Soldering time			
SDDJE, SDDE	350±10℃	3+1/0s			
SDKR	300±10℃	3±0.5s			

Reference for Hand Soldering

Reference for Dip Soldering (For PC board terminal types and SDDJF right-angle

terminal types)

Series	Dip soldering		
Jenes	Soldering temperature	Duration of immersion	
SDKR, SDDJE, 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.
- 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

Store the products as delivered at normal temperature and humidity, out of direct sunlight and away from corrosive gases. Use them as soon as possible and no later than six months after delivery. Once the seal is broken, use them as soon as possible.

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

Detector

Slide

Push

Rotary

Power

