











Power Switches









List of Varieties

Type		Push			Rocker		
Series		SDKR	SDDH	SDKN	SDDJE ※ 1 ※ 2	SDDJF ※ 1 ※ 2	
Photo							
Rating		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)	0.25A 250V AC 0.5A 125V AC 5mA 5V DC	10AGP 250V AC 6A / 96A 250V~	16AGP 250V AC 16 (6) / 250~	
Operating life		100,000cycles	100,000 cycles	5,200cycles	10,000cycles		
		0.5A 250V AC		0.25A 250V AC	10A 250V AC	16A 250V AC	
Travel (mm)		1.5	3.7	$\frac{9}{9.7}$	3.4	5.2	
Features		Water-proof type With signal circuit	Water-proof (IP68 rating)	—	—	—	
Operating temperature range		-10°C to +85°C	-15°C to +80°C	-20°C to +60°C	-10°C to +55°C		
Automotive use		—	●	—	—	—	
Life cycle (availability)							
Electrical performance	Contact resistance	100mΩ max. (AC switch) 500mΩ max. (DC switch)	500mΩ max.	100mΩ max.	100mΩ max.		
	Insulation resistance	500MΩ min. 500V DC (AC switch) 100MΩ min. 100V DC (DC switch)	10MΩ min. 500V DC	100MΩ min. 500V DC	500MΩ min. 500V DC		
	Voltage proof	1000V AC for 1minute (AC switch) 100V AC for 1minute (DC switch)	500V AC for 1minute	600V AC for 1minute	2,000V AC for 1minute		
Mechanical performance	Terminal strength	5N for 1minute	Slider pull-out strength: 100N min.	50N for 1minute	50N for 1minute (Lead terminal) 5N for 1minute (Right-angle terminal)	60N for 1minute (Lead terminal) 10N for 1minute (Right-angle terminal)	
	Actuator strength	Operating direction	100N	—	20N	25N	
		Perpendicular direction	20N	—	30N	25N	
Environmental performance	Cold	-20°C 240h	-15°C 96h	-30°C 192h	-20°C 96h		
	Dry heat	85°C 240h	80°C 96h	70°C 192h	85°C 96h		
	Damp heat	60°C, 90 to 95%RH 1000h	40°C, 90 to 95%RH 96h	40°C, 90 to 95%RH 192h	40°C, 90 to 95%RH 96h		
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Notes

- ※ 1. Dip soldering can be used on SDDJE for PC board terminal and SDDJF right angle terminal types only.
- ※ 2. The operating temperature range can be raised upon request. Please contact us for details.
- Indicates applicability to all products in the series.

Type		Rocker	Slide	Rotary		
Series		SDDJF1A	SDKP	SDKZ	SDDE	
Photo						
Rating		8A / 128A 250V~ 10 (6) / 250~	5RA 250V 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	
Operating life		10,000cycles 10A 250V AC	100cycles Without load	10,000cycles (Power) 30,000cycles (Encoder) 16A 250V AC (Power) 0.1A 12V DC (Encoder)	AC Switch: 10,000 cycles DC Switch: 10,000 cycles Encoder 30,000 cycles	
Travel (mm)		4.6	6	Endless	Push Switches: 1.85mm Encoders: 360° (360° Rotation)	
Features		—	—	With Encoders circuit	AC Switch, DC Switch, With Encoder	
Operating temperature range		-10°C to +55°C	-10°C to +60°C	-10°C to +70°C	0°C to +85°C	
Automotive use		—	—	—	—	
Life cycle (availability)						
Electrical performance	Contact resistance	100mΩ max.		100mΩ max. (Power) 1Ω max. (Encoder)	AC Switch: 100mΩ max. DC Switch: 500mΩ max. Encoder: 1Ω max.	
	Insulation resistance	500MΩ min. 500V DC		500MΩ min. 500V DC (Power) 100MΩ min. 100V DC (Encoder)	AC Switch: 100MΩ min. 500V DC DC Switch: 100MΩ min. 100V DC Encoder: 100MΩ min. 100V DC	
	Voltage proof	2,000V AC for 1minute		2,000V AC for 1minute (Power) 100V AC for 1minute (Encoder)	AC Switch: 2,000V AC for 1 minute DC Switch: 100V AC for 1 minute Encoder: 100V AC for 1 minute	
Mechanical performance	Terminal strength	50N for 1minute	10N for 1minute	20N (Power) 5N (Encoder)	AC Switch: 5N for 1 minute DC Switch: 5N for 30s Encoder: 5N for 1 minute	
	Actuator strength	Operating direction	25N	50N	—	100N
		Perpendicular direction	25N	50N	30N	30N (Retract direction)
Environmental performance	Cold	-20°C 96h		-40°C 240h		
	Dry heat	85°C 96h		85°C 240h		
	Damp heat	40°C, 90 to 95%RH 96h		40°C, 90 to 95%RH 240h		
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