

IP68 water resistant, enabling submerged operation



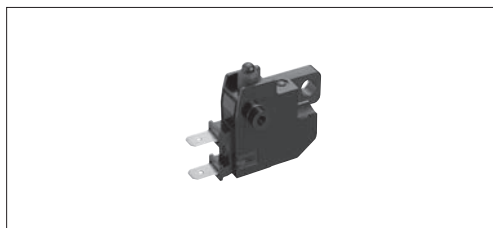
Detector

Slide

Push

Rotary

Power

Dual-in-line
Package TypePush
TypeRocker
TypeSlide
TypeRotary
Type

Ratings and Safety Standards

Items	Specifications
Rating (max.)	4.5A 12V DC (lamp load: 27W×2)
Rating (min.)	10mA 12V DC (Resistive load)
Contact resistance	500mΩ max.
Operating force	4.6N max.
Operating life	100,000 cycles

Product Line

Type	Circuit arrangement	Travel (mm)	Mounting method	Terminal configuration	Minimum order unit (pcs.)		Product No.
					Japan	Export	
Push	SPST (Normal Close)	3.7	Snap-in	Tab Terminal (#187)	180	360	SDDHA10100

Packing Specifications

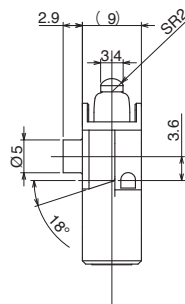
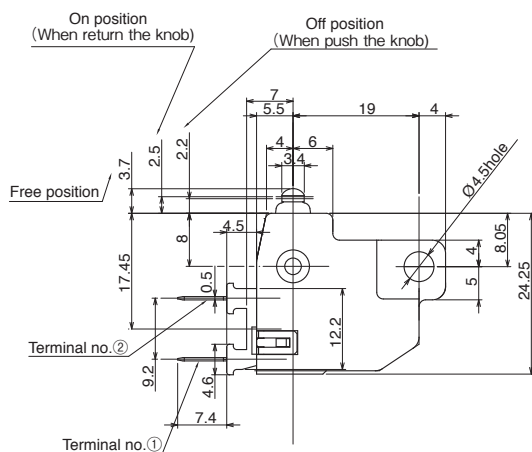
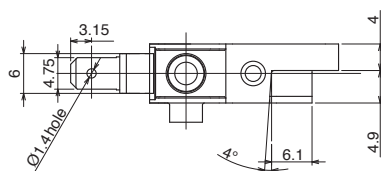
Tray

Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
180	360	400×270×185

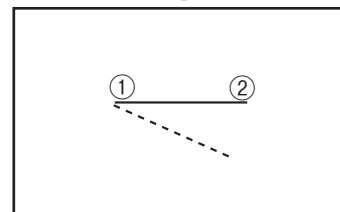
Dimensions

Unit:mm

Style



Circuit Diagram



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	9 9.7	3.4	5.2	
Features		Water-proof type With signal circuit	Water-proof (IP68 rating)	—	—	—	
Operating temperature range		−10℃ to +85℃	−15℃ to +80℃	−20℃ to +60℃	−10℃ to +55℃		
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℃ 240h	−15℃ 96h	−30℃ 192h	−20℃ 96h	
	Dry heat		85℃ 240h	80℃ 96h	70℃ 192h	85℃ 96h	
	Damp heat		60℃, 90 to 95%RH 1000h	40℃, 90 to 95%RH 96h	40℃, 90 to 95%RH 192h	40℃, 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.

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[SDDHA10100](#)