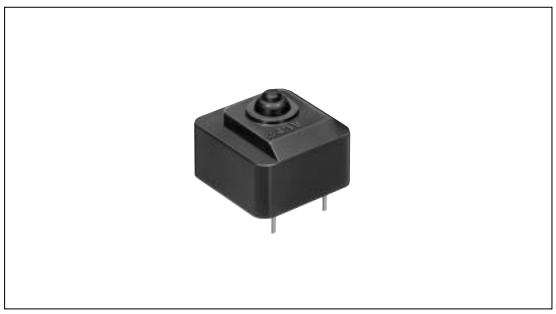
Water-proof Type (with Built-in Detector Switches)

SDKR Series

RoHS compliant

AC/DC combined compact water-proof switch.



Ratings and Safety Standards

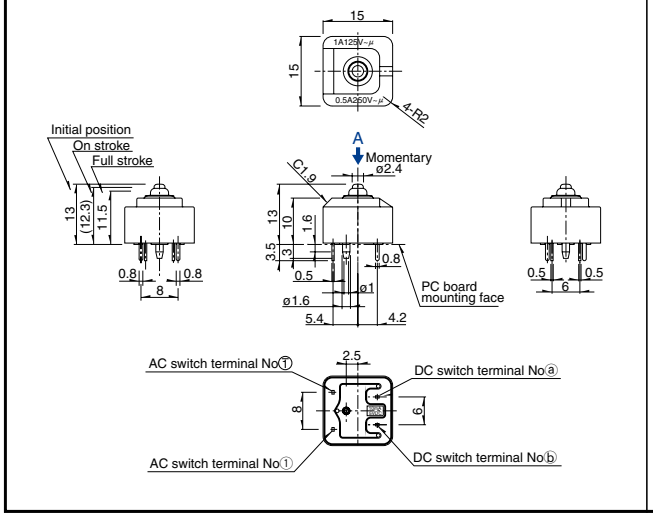
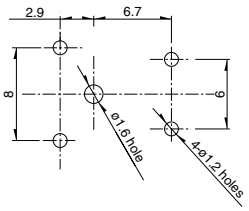
Items	Specifications
AC Switch	1A 125V AC,0.5A 250V AC (Resistive load)
DC Switch	10mA 5V DC (Resistive load)
Ratings satisfying local electrical appliance and material safety law	1A 125V AC

Product Line

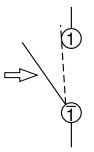
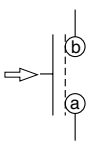
Circuit arrangement	Travel (mm)	Operating force	Mounting method	Minimum order unit (pcs.)	Product No.
SPST	1.5	2.5±1.5N	PC board	3,000	SDKRA10100

Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from the Direction A)
	

Circuit diagram (Viewed from direction A)

AC Switch	DC Switch
	

Notes

1. This product is **not be used under water.**
2. Depending on the loading conditions, Nitrogen Oxide (NOx) and moisture caused by opening/closing arc may generate nitric acid (HNO_3). This can lead to corrosion of the metal inside causing functional failure. Please apply contact protection circuits (arc suppressing circuits) or an OFF stage arc reducing circuit method.
3. Please place purchase orders per minimum order unit(integer).

List of Varieties

Items \ Type / Series			Push				Rocker	
			SDKN	SDKS	SDKQ	SDKR	SDDJE ※1 ※2	SDDJF ※1 ※2
Photo								
Travel (mm)			9 9.7	14.6	2.5	1.5	3.5	5.2
Remark			———			Water-proof type	———	
Operating temperature range			–20℃ to +60℃	–30℃ to +60℃	–10℃ to +60℃	–10℃ to +85℃	–10℃ to +55℃	
Rating			0.25A 250V AC 0.5A 125V AC 5mA 5V DC	2A 250V AC 4A 125V AC	3A 125V AC	0.5A 250V AC 1A 125V AC	6A/96A 250V～	16(6)/250～
Electrical performance	Contact resistance		100mΩ max.	50mΩ max.	100mΩ max.			
	Insulation resistance		500MΩ min. 500V DC	100MΩ min. 500V DC	500MΩ min. 500V DC			
	Voltage proof		1,000V AC for 1minute	1,500V AC for 1minute		1,000V AC for 1minute	2,000V AC for 1minute	
Mechanical performance	Terminal strength		50N for 1minute	70N for 1minute	—	5N for 1minute	10N for 1minute	60N for 1minute
	Actuator strength	Operating direction	20N		100N		25N	
		Perpendicular direction	20N	30N	20N		25N	
	Resistance to soldering heat	Manual soldering	———			300±10℃, 3±0.5s	350±10℃, 3±0.5s	
		Dip soldering	———			260±5℃, 10±1s	※260±10℃, 10±1s	
Durability	Operating life		6,000cycles		12,000cycles	100,000cycles	10,000cycles	
			Load : as ratings			Refer to individual product spec.	Load : as ratings	
Environmental performance	Cold		–30±2℃ for 96h	–40±2℃ for 96h	–25±2℃ for 240h	–20±2℃ for 240h	–20±2℃ for 96h	
	Dry heat		85±2℃ for 96h		85±2℃ for 240h		85±2℃ for 96h	
	Damp heat		40±2℃, 90 to 95%RH for 96h		40±2℃, 90 to 95%RH for 240h	60±2℃, 90 to 95%RH for 1000h	40±2℃, 90 to 95%RH for 96h	
Page			215	217	219	220	221	225

● Power Switches Cautions ·····235
● Power Switches Safety Standard ·····237, 238, 239

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 requirements of this kind.