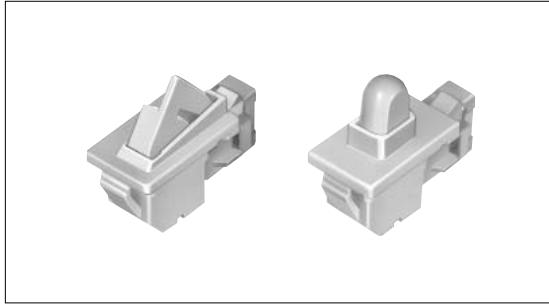


Power Switch 0.5A 125V AC Qualified Type

SDKN Series



Compact and low-profile for primary/secondary switching with compatibility to low level rating.



Product Line

Circuit arrangement	Rating	Total travel (mm)	Operating force	Mounting method	Operation type	Minimum order unit (pcs.)	Product No.	Drawing No.
SPDT	0.5A 125V AC 0.25A 250V AC 5mA 5V DC	9	3.5 ± 1N	Snap-in	Push	1,250	SDKNA20600	1
		9.7	2 ± 1.5N		Lever		SDKNA20700	2

Notes

- Safety standard approval must be obtained as a set.
- Please place purchase orders per minimum orders units(integer).

Dimensions

Unit:mm

No.	Style	Mounting hole dimensions
1	<p>Push</p>	

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

**Push
Type**

Rocker
Type

Slide
Type

Rotary
Type

Dimensions

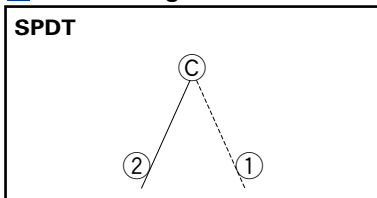
Unit:mm

No.	Style	Mounting hole dimensions
2	<p>Lever</p>	

Note

Connector corresponds to [HLP-03V], manufactured by the J.S.T. Mfg. Co., Ltd.

Circuit Diagram

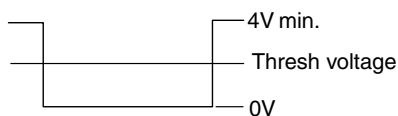


Note

Verify the performance under actual product conditions before use.

Cautions

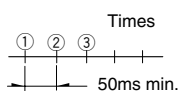
1. This product does not have a water-proof or drip-proof construction. Prevent ingress of water into the switch. Avoid using around spilt or flowing. It may cause deterioration of the insulation.
2. Do not apply load on the connector or lead wire(code)attached to the product. Using the product with load applied on the connector/lead wire might cause terminal wobble or contact failures.
3. ON/OFF signal reading(For DC ratings)
 Shall be considered when designing circuit and software as follows.
 (1) Setting of thresh voltage
 A 4V or larger voltage difference between switch ON and OFF is recommended. Thresh voltage should be set to the center.









(2) ON/OFF signal reading

ON/OFF signal reading intervals should be at a minimum of 50ms with at least 3 repetitions.

Reading of micro-computer



List of Varieties

Items	Type	Push				Rocker	
	Series	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	100m max.	50m max.	100m max.			
	Insulation resistance	500M min. 500V DC	100M min. 500V DC	500M 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

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
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TACT Switch™

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Type

Rocker
Type

Slide
Type

Rotary
Type

Power Switches Cautions235
 Power Switches Safety Standard237, 238, 239

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 for automotive applications can be raised upon request. Please contact us for requirements of this kind.