

Power Switch 0.5A 125V AC Qualified Type

SDKN Series



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

Detector

Push

Slide

Rotary

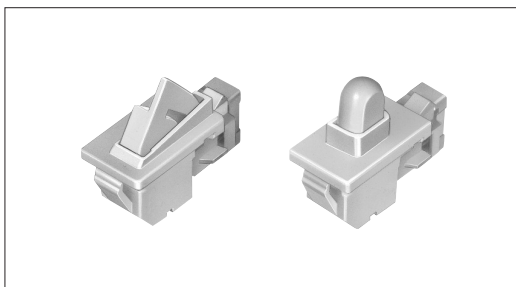
Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products



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	SDKNA20900	1
		9.7	2 ± 1.5N		Lever		SDKNA20700	2

Packing Specifications

Bulk

Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
250	1,250	389 × 276 × 380

Push
Type

Rocker
Type

Slide
Type

Rotary
Type

Notes

1. Safety standard approval must be obtained as a set.
2. Please place purchase orders per minimum order unit N (integer).

Dimensions

Unit:mm

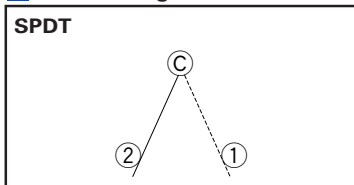
No.	Style	Mounting hole dimensions
1	<p>Push</p>	

Dimensions

Unit:mm

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

Circuit Diagram

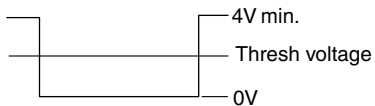


Note

Verify the performance under actual product conditions before use.

Cautions

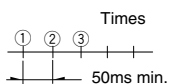
- This product does not have a water-proof or drip-proof construction. Prevent ingress of water into the switch. Avoid using around spilt or flowing. It may cause deterioration of the insulation.
- Do not apply load on the connector or lead wire (code) attached to the product. Using the product with load applied on the connector/lead wire might cause terminal wobble or contact failures.
- ON/OFF signal reading (For DC ratings)
 Shall be considered when designing circuit and software as follows.
 - 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



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

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**Push
 Type**

Rocker
 Type

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Rotary
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List of Varieties

Items	Type	Push		Rocker		
	Series	SDKN	SDKR	SDDJE ※1 ※2	SDDJF ※1 ※2	
Detector	Photo					
Push						
Slide	Travel (mm)	9 9.7	1.5	3.5	5.2	
Rotary	Remark	—	Water-proof type	—		
Encoders	Operating temperature range	-20°C to +60°C	-10°C to +85°C	-10°C to +55°C		
Power	Automotive use	—	—	○	○	
	Rating	0.25A 250V AC 0.5A 125V AC 5mA 5V DC	0.5A 250V AC 1A 125V AC	10A 250V AC 6A/96A 250V~	16A 250V AC 16 (6)/250~	
Electrical performance	Contact resistance	100mΩ max.				
	Insulation resistance	500MΩ min. 500V DC				
	Voltage proof	1,000V AC for 1minute		2,000V AC for 1minute		
Mechanical performance	Terminal strength	50N for 1minute	5N for 1minute	50N for 1minute	60N for 1minute	
	Actuator strength	Operating direction	20N	100N	25N	
		Perpendicular direction	20N		25N	
	Resistance to soldering heat	Manual soldering	—	300±10°C, 3±0.5s	350±10°C, 3±0.5s	
		Dip soldering	—	260±5°C, 10±1s	※260±10°C, 10±1s	
Durability	Operating life	6,000cycles	100,000cycles	10,000cycles		
		Load : as ratings	Refer to individual product spec.	Load : as ratings		
Environmental performance	Cold	-30±2°C for 96h	-20±2°C for 240h	-20±2°C for 96h		
	Dry heat	85±2°C for 96h	85±2°C for 240h	85±2°C for 96h		
	Damp heat	40±2°C, 90 to 95%RH for 96h	60±2°C, 90 to 95%RH for 1000h	40±2°C, 90 to 95%RH for 96h		
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- Power Switches Cautions264
- Power Switches Safety Standard265, 266, 267

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 details.
- marks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C.