

# Power Switch Rotary Type Power Switch with Encoder

SDKZ Series



## Rotary type power switch with encoder.

Detector

Push

Slide

Rotary

Encoders

**Power**

Dual-in-line  
Package Type

TACT Switch™

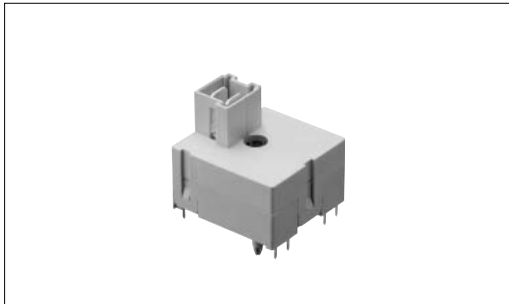
Custom-  
Products

Push  
Type

Rocker  
Type

Slide  
Type

**Rotary  
Type**



### Ratings and Safety Standards

Items	Specifications
Max rating( Power )	16(6)A 250V AC 14(6)A 250V AC
Max rating( Encoder )	0.1A 12V DC
Contact resistance( Encoder ) initial/after life test	1 max./1 max.
Operating( Power )	10,000cycles
Operating life( Encoder )	30,000cycles

### Product Line

Circuit arrangement	Torque		Operating direction	Positions	Mounting method	Terminal style	Minimum order unit( pcs. )	Product No.	Drawing No.
	From "OFF" position on to "ON" position	Other positions							
DPST	14 ± 3N	10 ± 3N	Vertical	15	For PC board	straight	288	SDKZ1F0200	1
	12 ± 3N	6 ± 3N		16				SDKZ1G0200	
	14 ± 3N	7.5 ± 3N		19				SDKZ1K0200	2
		10 ± 3N		21				SDKZ1M0200	
		7.5 ± 3N		24				SDKZ1Q0200	
		10 ± 3N		25				SDKZ1R0200	

### Note

Please place purchase orders per minimum order unit(integer).

Dimensions

Unit:mm

No.	Style
1	
	<p style="text-align: center;"><b>PC board mounting hole dimensions</b></p>
2	
	<p style="text-align: center;"><b>PC board mounting hole dimensions</b></p>

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Type**

**Standard Code**

**SDKZ1F0100**

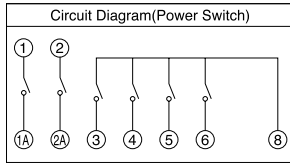
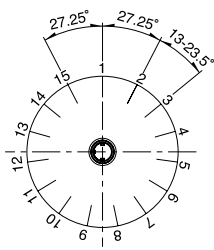
Unit:mm

Detector

Push

Slide

Rotary



CODE

POS	TERM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Power contacts1-2			○	○	○	○	○	○	○	○	○	○	○	○	○	○
Condification contact3		○	○	○	○	○			○							○
Condification contact4		○	○								○	○	○	○		
Condification contact5		○	○	○						○	○					
Condification contact6		○		○	○	○						○	○			

Encoders

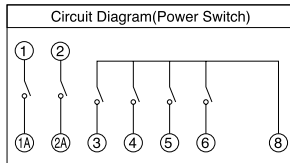
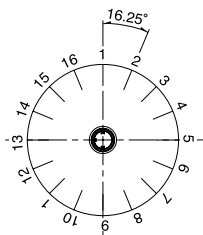
Power

Dual-in-line  
Package Type

TACT Switch™

Custom-  
Products

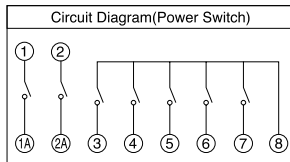
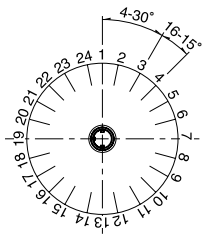
**SDKZ1G0100**



CODE

POS	TERM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Power contacts1-2			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Condification contact3		○	○	○	○	○			○							○	
Condification contact4		○	○								○	○	○	○			
Condification contact5		○	○	○						○	○						
Condification contact6		○		○	○	○						○	○				

**SDKZ1K0100**



CODE

POS	TERM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Power contacts1-2			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Condification contact3		○		○	○	○								○	○							○	○	○	○
Condification contact4		○	○								○	○	○	○								○	○	○	○
Condification contact5		○	○	○						○	○	○	○									○	○	○	○
Condification contact6		○		○	○	○							○	○	○							○	○	○	○
Condification contact7		○					○	○	○	○															

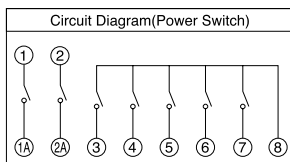
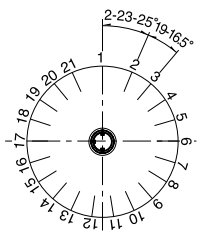
Push  
Type

Rocker  
Type

Slide  
Type

Rotary  
Type

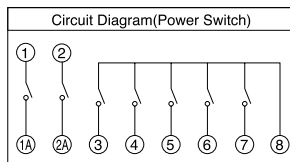
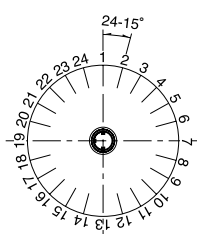
**SDKZ1M0100**



CODE

POS	TERM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Power contacts1-2			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Condification contact3		○		○	○																	○	○
Condification contact4		○	○							○	○											○	○
Condification contact5		○	○	○						○	○											○	○
Condification contact6		○		○	○	○						○	○	○								○	○
Condification contact7		○					○	○				○										○	○

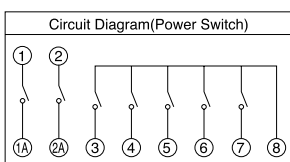
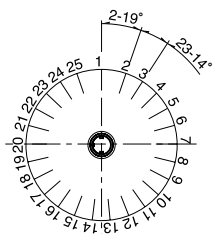
**SDKZ1Q0100**



CODE

POS	TERM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Power contacts1-2			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Condification contact3		○		○	○	○									○							○	○	○	
Condification contact4		○	○								○	○										○	○	○	
Condification contact5		○	○	○						○	○											○	○	○	
Condification contact6		○		○	○	○						○	○	○								○	○	○	
Condification contact7		○					○	○				○										○	○	○	






**SDKZ1R0100**



CODE

POS	TERM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Power contacts1-2			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Condification contact3		○		○	○	○									○							○	○	○	○	
Condification contact4		○	○								○	○										○	○	○	○	
Condification contact5		○	○	○						○	○											○	○	○	○	
Condification contact6		○		○	○	○						○	○	○								○	○	○	○	
Condification contact7		○					○	○				○										○	○	○	○	

## List of Varieties

Items	Type	Slide				Rotary
	Series	SDKG	SDKH	SDKP	SDKT	SDKZ
Detector	Photo					
Push						
Slide	Travel (mm)	6			2.2	Full rotation
Rotary	Remark					With signal circuit
Encoders	Operating temperature range	-10 to +60				-10 to +70
Power	Rating	5A 250V AC			6A 125V AC	PS:16(6)A 250V AC, 14(6)A 250V AC DC:0.1A 12V DC
Dual-in-line Package Type	Electrical performance	Contact resistance	50m max.		100m max.	10m max.
TACT Switch™			100m max.		10m max.	100m max.
Custom-Products		Insulation resistance	500M min. 500V DC		100M min. 500V DC	500M min. 500V DC
	500M min. 500V DC		500M min. 500V DC	1,000M min. 500V DC	500M min. 500V DC	
	Voltage proof	2,000V AC for 1minute			1,000V AC for 1minute	2,000V AC for 1minute 100V AC for 1minute
	Mechanical performance	Terminal strength	10N for 1minute			
		Actuator strength	Operating direction		50N	30N
			Perpendicular direction		10N	30N
		Resistance to soldering heat	Manual soldering		350 ± 10 , 3 ± 0.5s	
	Dip soldering		260 ± 5 , 10 ± 1s			
	Durability	Operating life	100cycles		20,000cycles	10,000cycles 30,000cycles
			Without load		Load : As ratings	
	Environmental performance	Cold	-20 ± 2 for 96h			-40 ± 2 for 240h
		Dry heat	85 ± 2 for 96h			85 ± 2 for 240h
		Damp heat	40 ± 2 , 90 to 95%RH for 96h			40 ± 2 , 90 to 95%RH for 240h
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