

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™

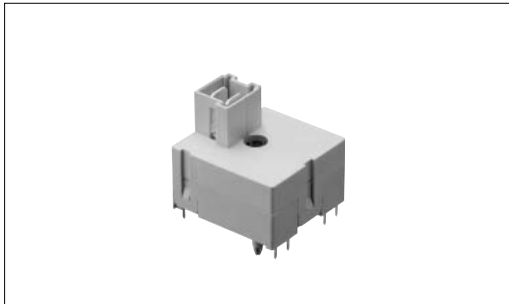
Custom-
Products

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).

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power**
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

- Push Type
- Rocker Type
- Slide Type
- Rotary Type**

No.	Style
1	<div style="text-align: center;"> </div> <div style="text-align: center; background-color: #cccccc; padding: 5px; margin-top: 10px;"> PC board mounting hole dimensions </div>
2	<div style="text-align: center;"> </div> <div style="text-align: center; background-color: #cccccc; padding: 5px; margin-top: 10px;"> PC board mounting hole dimensions </div>

Unit:mm

Standard Code

SDKZ1F0100

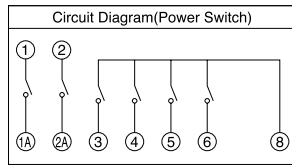
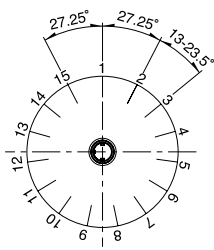
Unit:mm

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

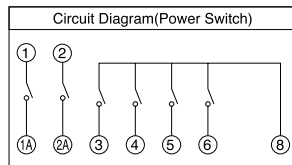
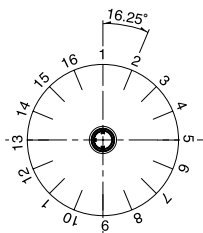
Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

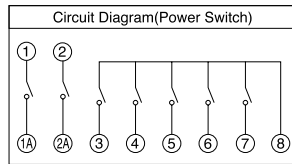
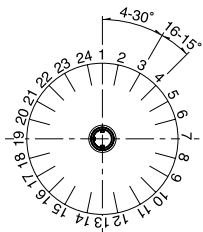
SDKZ1G0100



CODE

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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		○					○	○	○	○															

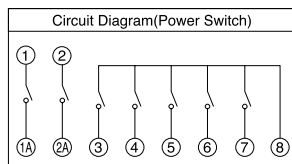
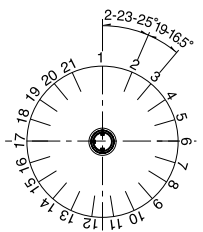
Push
Type

Rocker
Type

Slide
Type

Rotary
Type

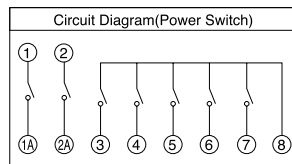
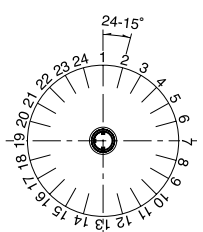
SDKZ1M0100



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		○					○	○				○										○	○

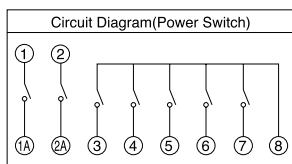
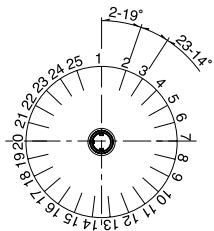
SDKZ1Q0100



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.			1 max.	
Custom-Products		Insulation resistance	500M min. 500V DC	100M min. 500V DC	500M min. 500V DC	1,000M min. 500V DC	500M min. 500V DC 100M min. 100V 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				20N 5N
Push Type		Actuator strength	Operating direction		50N	30N	—
Rocker Type			Perpendicular direction			10N	30N
Slide Type		Resistance to soldering heat	Manual soldering		350 ± 10 , 3 ± 0.5s		350 ± 10 , 3 ± 0.5s
Rotary Type	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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