

# Power Switch Rotary Type Power Switch with Encoder

SDKZ Series

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## Rotary type power switch with encoder.

Detector

Push

Slide

Rotary

Encoders

**Power**

Dual-in-line  
Package Type

TACT Switch™

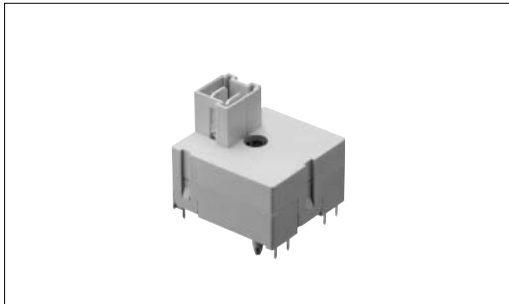
Custom-  
Products

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><b>PC board mounting hole dimensions</b></p>
2	
	<p><b>PC board mounting hole dimensions</b></p>

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Slide  
 Type

**Rotary  
 Type**

**Standard Code**

**SDKZ1F0100**

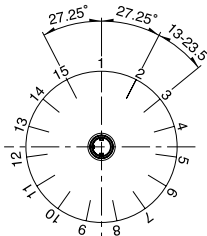
Unit:mm

Detector

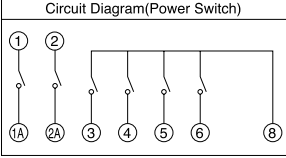
Push

Slide

Rotary



Circuit Diagram(Power Switch)



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																

**SDKZ1G0100**

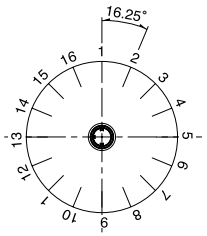
Encoders

**Power**

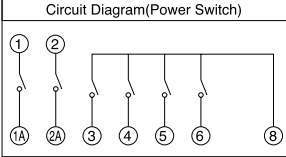
Dual-in-line Package Type

TACT Switch™

Custom-Products



Circuit Diagram(Power Switch)



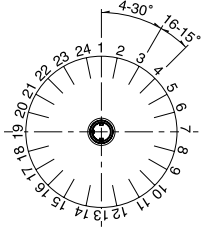
CODE

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																	

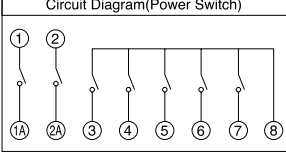
**SDKZ1K0100**

Push Type

Rocker Type



Circuit Diagram(Power Switch)



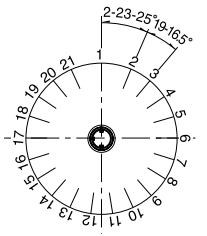
CODE

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																									

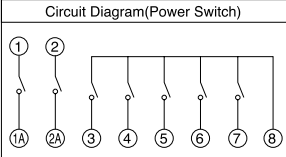
**SDKZ1M0100**

Slide Type

**Rotary Type**



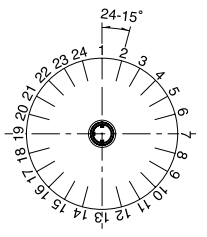
Circuit Diagram(Power Switch)



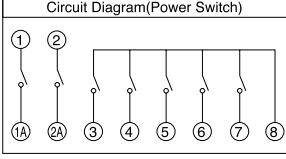
CODE

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**



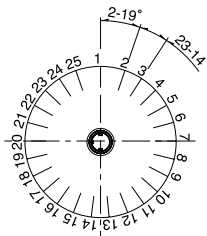
Circuit Diagram(Power Switch)



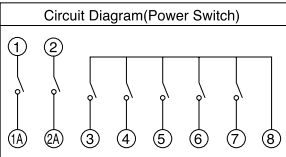
CODE

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**








Circuit Diagram(Power Switch)



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	Travel (mm)	6			2.2	Full rotation	
Slide	Remark					With signal circuit	
Rotary	Operating temperature range	-10 to +60				-10 to +70	
Encoders	Rating	5A 250V AC			6A 125V AC	PS:16(6)A 250V AC, 14(6)A 250V AC DC:0.1A 12V DC	
Power	Electrical performance	Contact resistance	50m max.		100m max.	10m max.	
Dual-in-line Package Type			100m max.			1 max.	
TACT Switch™		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
Custom-Products	Voltage proof			2,000V AC for 1minute	1,000V AC for 1minute	2,000V AC for 1minute 100V AC for 1minute	
Push Type	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			350 ± 10 , 3 ± 0.5s
Dip soldering	260 ± 5 , 10 ± 1s						
Rocker Type	Durability	Operating life		100cycles	20,000cycles	10,000cycles 30,000cycles	
		Without load			Load : As ratings		
Slide Type	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
Rotary Type	Page	227	229	230	231	232	