

SGCK Series Limit Switches

Technical data

Standard	EN60947-1;EN60947-5-1
Ambient temperature	-5°C to +65°C
Humidity	95% RH max

The switches are applicable to AC control circuits of 50 to 60Hz, with a voltage up to 500V or DC control circuits with a voltage up to 250V, and a current up to 15A to convert a mechanical signal into an electrical signal for the purpose of controlling mechanical movement or performing sequential control.

SGZ Series Micro Switches


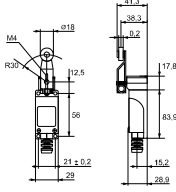

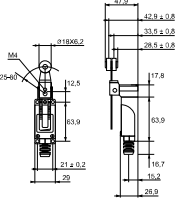

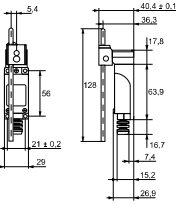

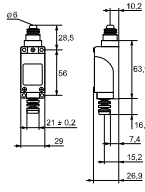

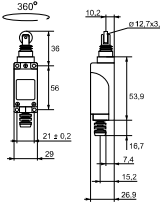

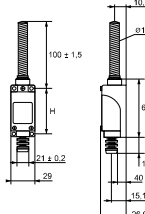
Technical data

Standard	EN60947-1;EN60947-5-1
Ambient temperature	-10°C to +80°C
Humidity	95% RH max

General purpose micro switches are used in AC control circuit of 50/60Hz, with a voltage up to 380V and a rated control capacity of 100VA or in DC control circuits with a voltage up to 220V and a rated control capacity of 10W



SGCK Series Limit switches

SGCK Limit switch	Contour	Power of starting(g)	Power of release(g)	Switching position	General movement	Rated current	Reference
		750g	100g	20°	50°	5A-active 3A-inductive	SGCK-TZ8104
		750g	100g	20°	50°	5A-active 3A-inductive	SGCK-TZ8108
		750g	100g	20°	50°	5A-active 3A-inductive	SGCK-TZ8107
		900g	150g	1.5mm	4mm	5A-active 3A-inductive	SGCK-TZ8111
		900g	150g	1.5mm	4mm	5A-active 3A-inductive	SGCK-TZ8112/ SGCK-TZ8122
		150g	/	30mm	/	5A-active 3A-inductive	SGCK-TZ8166/ 8167/8168/8169

1.Characteristics

Description	Reference
Operation speed	0.5mm-50cm/sec
Operating frequency	Mechanical: 120 operations/minute Electical: 30 operations/minute
Contact resistance	25mΩ max. (initial value)
Insulation resistance	100mΩ min. (below 500VDC)
Dielectric strength	1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60 Hz for 1 minute between current-carrying and noncurrent-carrying metal parts
	1500VAC, 50/60 Hz for 1 minute between each terminal and ground
Vibration	10-55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1, 000m/Sec ² (about 100G'S)
	Malfunction: 300m/Sec ² (about 30G'S)
Ambient temperature	-5~+65°C (With no icing)
Humidity	<95% RH
Weight	About 130 to 190g
Life	Mechanical: 10,000,000 operations above
	Electrical: 500,000 operations above
Degree of protection	Ip65

2. Ratings

Rated voltage	Noninductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NO	NC
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC			1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
Inrush Current	N.C: below 24A, N.O: below 12A							

NOTES:

1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC)
2. Lamp load has an inrush current of 10 times the steady-state current, while motor, load has an inrush current of 6 times the steady-state current.
3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.