

Product Line

Soldering	Actuator configuration	Packaging style	Poles	Minimum packing unit (pcs.)	Product No.	Drawing No.
Insertion	Standard	Stick	2	70	SSGM120100	1
			3	52	SSGM130100	
			4	40	SSGM140100	
			5	33	SSGM150100	
			6	28	SSGM160100	
			7	25	SSGM170100	
			8	22	SSGM180100	
			9	19	SSGM190100	
			10	18	SSGM1A0100	
			Reflow	Flat	Taping	
8	SSGM680200					
2	1,000	SSGM720101				4
4		SSGM740101				
6		SSGM760102				
8	SSGM780103					

Note

Products other than those listed in the above chart are also available. Please contact us for details.

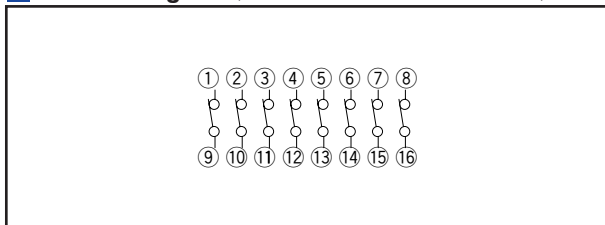
Detector
Push
Slide
Rotary
Encoders
Power
Dual-in-line Package Type
Multi Control Devices
TACT Switch™
Custom-Products

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	<p>Standard</p>	
2	<p>Flat</p>	
3	<p>Standard</p>	
4	<p>Flat</p>	

Circuit Diagram (Viewed from direction A)



Number of Poles and Outline Dimension (L)

Number of poles (N)	2	3	4	5	6	7	8	9	10
L (mm)	6.9	9.4	11.9	14.5	17	19.6	22.1	24.6	27.2

Product Specifications

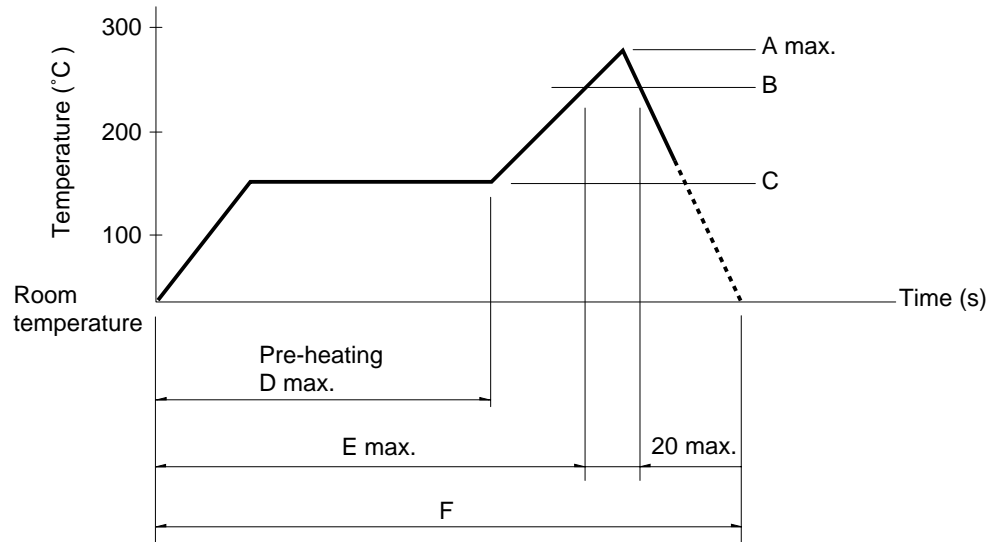
Items	Series	SSGM	
	Operating temperature range	-40°C to +85°C	
Detector	Rating (max.) (Resistive load)	25mA 24V DC (At opening and closing) 0.1A 50V DC (When energized)	
Push	Electrical performance	Contact resistance (Initial performance/After life time) 50mΩ max./100mΩ max.	
Slide		Insulation resistance 100MΩ min. 500V DC	
Rotary		Voltage proof 500V AC for 1minute	
Encoders	Mechanical performance	Operating force 3.5±2.5N	
Power		Terminal strength 5N for 1minute	
Dual-in-line Package Type		Actuator strength	Operating direction 10N
Multi Control Devices			Pulling direction 10N
TACT Switch™		Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively	
Custom-Products		Resistance to soldering heat	Manual soldering 350±5°C 5s max.
	Dip soldering 270±5°C, 10±1s		
	Reflow soldering Please see P.277		
Durability	Operating life	Without load 3,000cycles	
		With load 3,000cycles (25 mA 24V DC)	
Environmental performance	Cold -40±2°C for 250h		
	Dry heat 85±2°C for 250h		
	Damp heat 40±2°C, 90 to 95%RH for 250h		

Refer to P.277 for reflow soldering conditions.

Soldering Conditions

Example of Reflow Soldering Condition

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple 0.1 to 0.2 ϕ CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
3. Temperature profile



Series(Reflow type)	A (°C) 3s max.	B (°C)	C (°C)	D (s)	E (s)	F (s)
SSGM	240	230	150	120	————	————

Notes

1. The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package TypeMulti Control
Devices

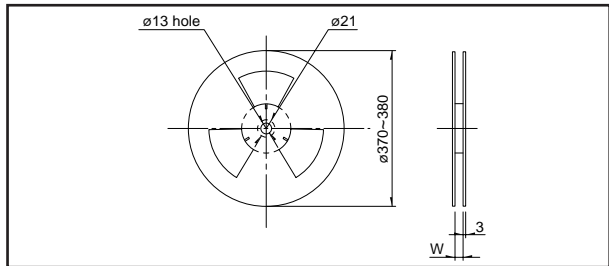
TACT Switch™

Custom-
Products

Taping Packaging

Reel Size

Unit:mm



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

Series			Number of packages (pcs.)			Reel width W (mm)	Tape width (mm)
			1 reel	1 case/domestic	1 case/export packing		
SSGM	Reflow, standard	4P	800	1,600	3,200	24.4	24
		8P		800	1,600	44.4	44
	Reflow, flat	2, 4P	1,000	2,000	4,000	24.4	24
		6P		1,000	2,000	32.4	32
		8P				44.4	44

Note

Please place purchase orders for taping products per minimum package units (1 reel or a case).

Stick Packaging

Series		Number of packages (pcs.)		
		1 stick	1 case/domestic	1 case/export packing
SSGM	2P	70	1,400	7,000
	3P	52	1,040	5,200
	4P	40	800	4,000
	5P	33	660	3,300
	6P	28	560	2,800
	7P	25	500	2,500
	8P	22	440	2,200
	9P	19	380	1,900
	10P	18	360	1,800