

MICRO SWITCH

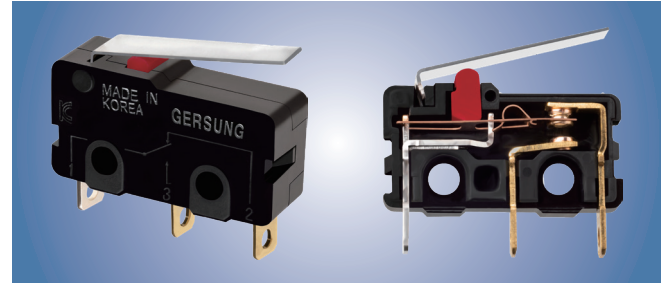
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SS형 마이크로 스위치 (SS - Type Micro Switch)

특징 (Feature)

- 0.4A부터 10A까지 개폐 가능한 소형 스위치
- 동작력은 저 하중에서 고 하중까지 용도에 맞춘 풍부한 시리즈
- 안정된 분할 2매 스프링 구조의 적용으로 높은 내구성 실현
- UL, VDE, KC(Korea) 인증
- RoHS, REACH 적용
- Wide switching capacity ranging from 0.4A to 10A
- Rich the operating force spec. series to surt your needs from low to high
- Achieved high durability by adoption of stable split 2 spring structure
- UL, VDE, KC(Korea) approved
- RoHS, REACH applicated



용도 (Application)

- 에어컨, 냉장고, 게임기, 자동판매기, 소형가전제품, 산업기기
- Air conditioner, Refrigerator, Game machine, Vending machine, Small home appliance, Industrial instruments

형명분류 (Nomenclature Breakdown)

G S M - S 5 0 1 T L *

정격 (Rating)	액추에이터 (Actuator)	접촉형식 (Contact configuration)	단자 (Terminal)	동작력 (Operating force)	고객주문 (Customer requirement)
10 : 10A 5 : 5A	0 : 핀누름 버튼 (Pin plunger) 1 : 힌지 쇼트 레버 (Short hinge lever) 2 : 힌지 레버 (Hinge lever) 3 : 힌지 롱 레버 (Long hinge lever) 4 : 힌지 R 레버 (Simulated hinge lever) 5 : 힌지 롤러 쇼트 레버 (Short hinge roller lever) 6 : 힌지 롤러 레버 (Hinge roller lever) * : Customer Index	1 : 단극 쌍투형 S.P.D.T(1c) 2 : 상시 폐로형 S.P.S.T-NC(1b) 3 : 상시 개로형 S.P.S.T-NO(1a)	무표시 : 납땜단자 T : #110 탭단자 P : 프린트기판용단자 Blank : Solder Terminal T : #110 TAB Terminal P : PCB Terminal	L : 200g 무표시(Blank) : 150g S : 80g *생산가능(Prod. Possible) H : 300g SL : 50g	무표시 : 표준형 * : 고객 표기 Blank : Normal * : Customer index

종류 (Type)

액추에이터 (Actuator)		핀누름 버튼 (Pin plunger)	힌지 쇼트 레버 (Short hinge lever)	힌지 레버 (Hinge lever)	힌지 롱 레버 (Long hinge lever)	힌지 R 레버 (Simulated hinge lever)	힌지 롤러 쇼트 레버 (Short hinge roller lever)	힌지 롤러 레버 (Hinge roller lever)
정격 (Rating)	단자 (Terminal)							
10A	Solder 단자	S1001	S1011	S1021	S1031	S1041	S1051	S1061
	#110 TAB 단자	S1001T	S1011T	S1021T	S1031T	S1041T	S1051T	S1061T
	PCB 단자	S1001P	S1011P	S1021P	S1031P	S1041P	S1051P	S1061P
5A	Solder 단자	S501	S511	S521	S531	S541	S551	S561
	#110 TAB 단자	S501T	S511T	S521T	S531T	S541P	S551T	S561T
	PCB 단자	S501P	S511P	S521P	S531P	S541P	S551P	S561P

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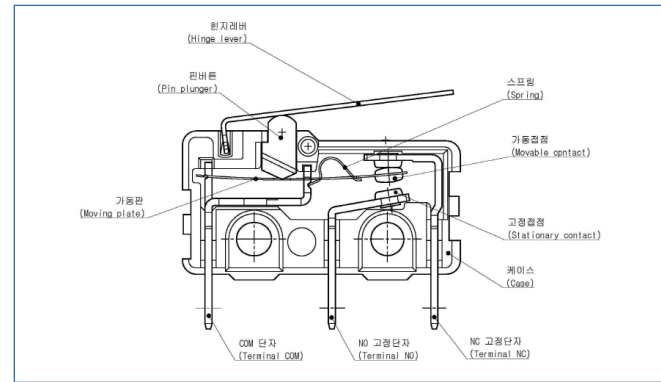
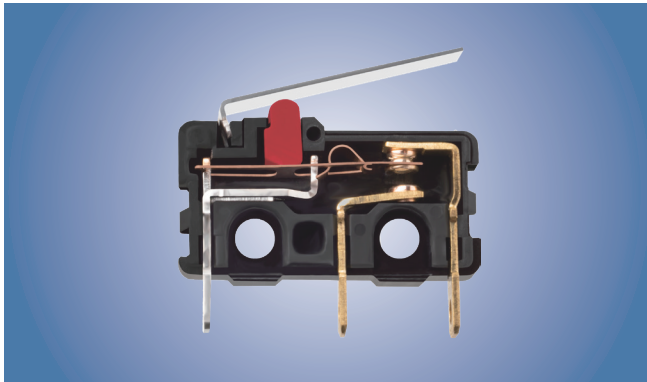
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단자의 종류 (Terminal Types) (Unit : mm)

Solder Terminal	#110 TAB Terminal	PCB Terminal

구조 (Structure)



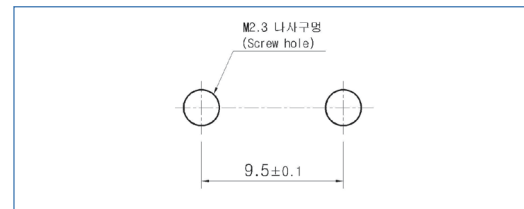
접촉형식

(Contact Configuration)

단극 쌍투형 S.P.D.T (1c)	상시폐로형 S.P.S.T -NC(1b)	상시개로형 S.P.S.T -NO(1a)

취부구멍 가공치수

(Mounting Holes) (Unit : mm)



• 스위치 취부는 적절한 토크 (2.3~2.6kgf · cm)로 설치하여 주십시오.
(Installation of switch should be done by apt torque.)

정격 (Ratings)

종류/항목 (Type/Item)	정격전압(V) (Rated voltage)	저항부하(A) (Resistive load)		비고 (Remark)
		NC	NO	
10A	125 / 250V AC	10	10	
5A	125V AC	5	5	
	250V AC	5	5	
	30V DC	5	5	
	125V DC	0.4	0.4	

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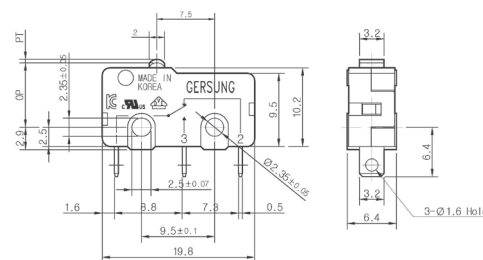
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성능 (Characteristics)

항목 (Item)		사양 (Specification)	
		GSM- S10 Series	GSM-S5 Series
허용조작속도 (Operating speed)		0.1mm~1m/s(핀누름버튼형의 경우)(for pin plunger models)	
허용동작빈도 (Operating frequency)	기계적 (Mechanical)	400 회/min (400 operations/min)	
	전기적 (Electrical)	60 회/min (60 operations/min)	
절연저항 (Insulation resistance)		100MΩ 이상 (DC 500V 절연저항계에서) (Min. 100MΩ at 500VDC with insulation tester)	
접촉저항 (Contact resistance)		최대 30mΩ (초기치) [Max. 30mΩ (Initial)]	
내전압 (Dielectric Strength)		비연속단자간 1,000VAC, 50/60Hz 1분간 (1,000VAC, 50/60Hz for 1 min. between noncontinuous terminals) 각 단자와 비충전 금속부간, 각 단자와 접지간 1,500VAC, 50/60Hz 1분간 (1,500VAC, 50/60Hz for 1 min. between each terminal & noncurrent carrying parts, between each terminal & ground)	
내진동성 (Vibration durability)		오작동 내구성 : 10 ~ 55Hz, 진동폭 1.5mm 에서 (Malfunction durability, 10 ~ 55Hz at 1.5mm amplitude)	
충격 (Shock)	기계적 내구성 (Mechanical durability)	최대 1,000m/s ² (Max. 1,000m/s ²)	
	오작동 내구성 (Malfunction durability)	최대 300m/s ² (Max. 300m/s ²)	
수명 (Service life)	기계적 (Mechanical)	1,000만회 이상 (60 회/min) [Min. 10,000,000 operations (60 operations/min)]	
	전기적 (Electrical)	5만회 이상(30회/min) (Min. 50,000 operations)	10만회 이상 (30회/min) (Min. 100,000 operations)
보호구조 (Degree of protection)		IEC IP40	
감전보호 (Degree of protection against electric)		Class I	
PTI(트래킹 특성) [Proof tracking index (PTI)]		175	
중량 (Weight)		약 1.6g (핀누름버튼형 기준) (Approx. 1.6g pin plunger)	
사용주위온도 (Environmental temperature)		-25°~ 85°C Max. 60%RH (with no icing or condensation)	
사용주위습도 (Environmental humidity)		85%RH 이하 (Max. 85%RH)	

외형 치수 및 특성 (Dimensions and operating characteristics)

핀누름 버튼형 (Pin plunger)



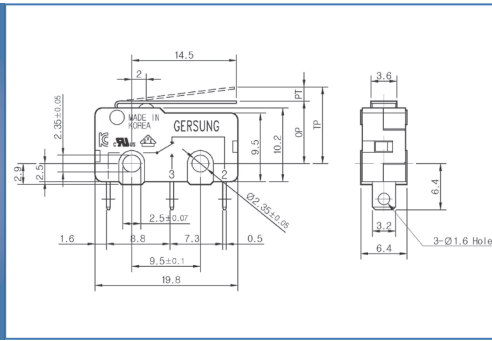
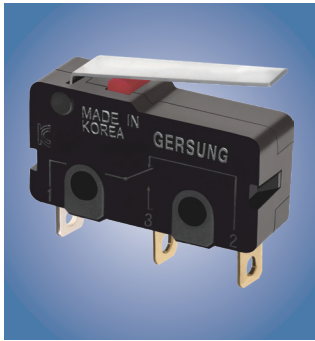
	S10			S5		
OF Max.	200g	150g	80g	200g	150g	80g
RF Min.	35g	25g	15g	35g	25g	15g
PT Max.	0.6mm					
OT Min.	0.5mm					
MD Max.	0.12mm					
OP	8.4 ± 0.5mm					

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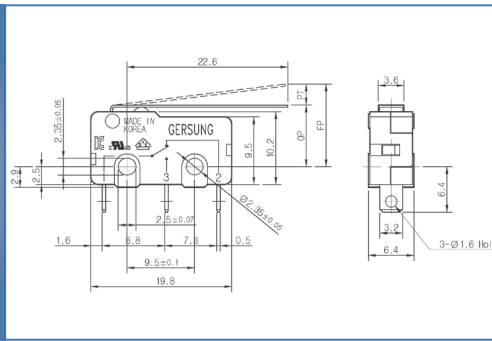
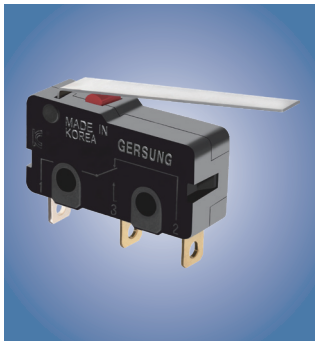
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■ 힌지 쇼트 레버형 (Short hinge lever)



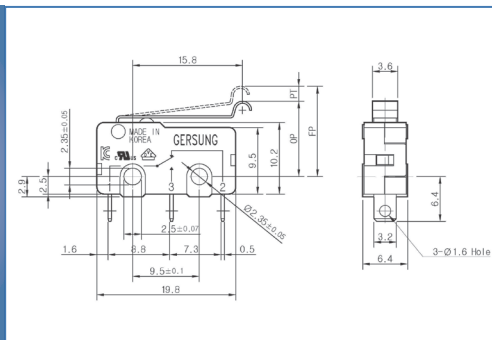
	S10			S5		
OF Max.	65g	50g	25g	65g	50g	25g
RF Min.	8g	6g	3g	8g	6g	3g
PT Max.	2.4mm					
MD Max.	0.8mm					
FP Max.	13.6mm					
OP	8.8 ± 0.8mm					

■ 힌지 레버형 (Hinge lever)



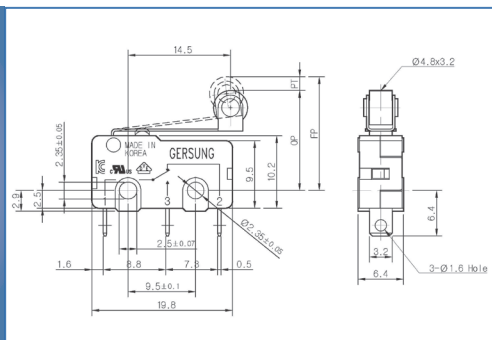
	S10			S5		
OF Max.	50g	40g	20g	50g	40g	25g
RF Min.	4g	3g	1.5g	4g	3g	1.5g
PT Max.	3.6mm					
MD Max.	1.2mm					
FP Max.	16.8mm					
OP	8.8 ± 1.5mm					

■ 힌지 R 레버형 (Simulated hinge lever)



	S10			S5		
OF Max.	65g	50g	25g	65g	50g	25g
RF Min.	8g	6g	3g	8g	6g	3g
PT Max.	2.6mm					
MD Max.	0.8mm					
FP Max.	15.5mm					
OP	10.7 ± 0.8mm					

■ 힌지 롤러 쇼트 레버형 (Short hinge roller lever)



	S10			S5		
OF Max.	65g	50g	25g	65g	50g	25g
RF Min.	8g	6g	3g	8g	6g	3g
PT Max.	2.4mm					
MD Max.	0.8mm					
FP Max.	19.3mm					
OP	14.5 ± 0.8mm					