

리미트 스위치

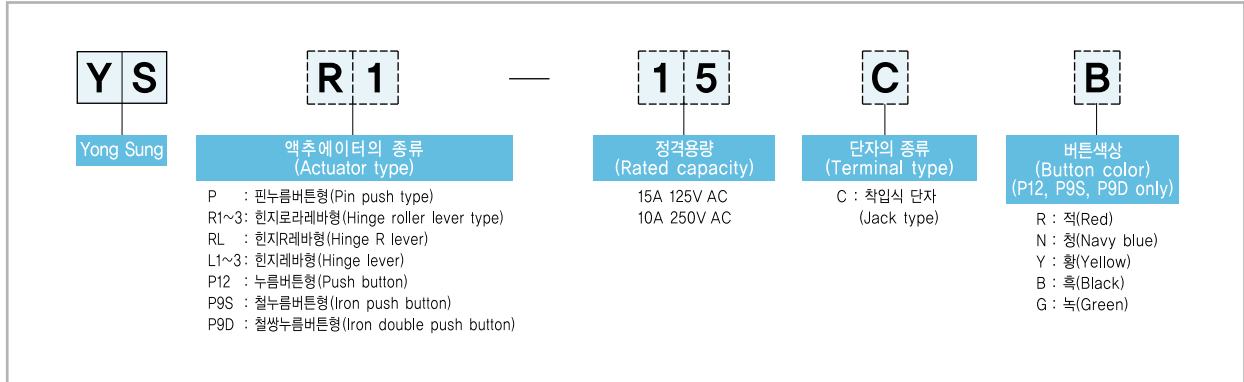
리미트
스위치

1-3

소형 마이크로 스위치 (V형) Mini Micro Switch (V Type)



형식 구분도 | Type Classification Diagram |



특징 | Features |

- 정밀도가 높은 스위치로 고성능을 요구하는 용도에 적합함.
- 고용량 부하가 개폐되므로 산업용기계, 자동제어기기에 적합함.
- 종류에는 로라형, 레바형, 버튼형 등이 있어 용도별 선택이 가능함.
- High accuracy and suitable for high performance required.
- Due to switching of high capacity load, adequate for automatic control equipment and industrial equipment.
- Choice possible per application as roller lever, button type etc.

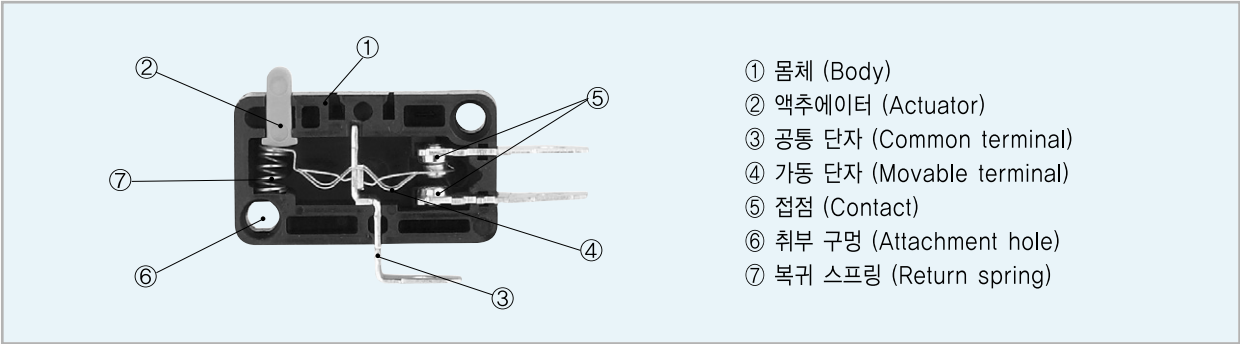
용도 | Application |

- 전동공구, 공작기계, 민생용기기, 사무기, 통신, 측정기기 등 용도가 광범위함.
- Can be widely used for electric tools, machine tools, public purpose home equipment, office equipments, communication, measuring devices etc.

액추에이터의 종류 | Actuator Type |

분류명 (Classification)	형상 (Shape)	형식구분 (Type classification)
핀누름버튼형 (Pin push button type)		YS P
힌지롤라레바형 (Hinge roller lever type)		YS R1, YS R2, YS R3
힌지R레바형 (Hinge R lever type)		YS RL
힌지레바형 (Hinge lever type)		YS L1, YS L2, YS L3
누름버튼형 (Push button type)		YS P12, YS P9S, YS P9D

내부 구조도 | Inside Structure Diagram |

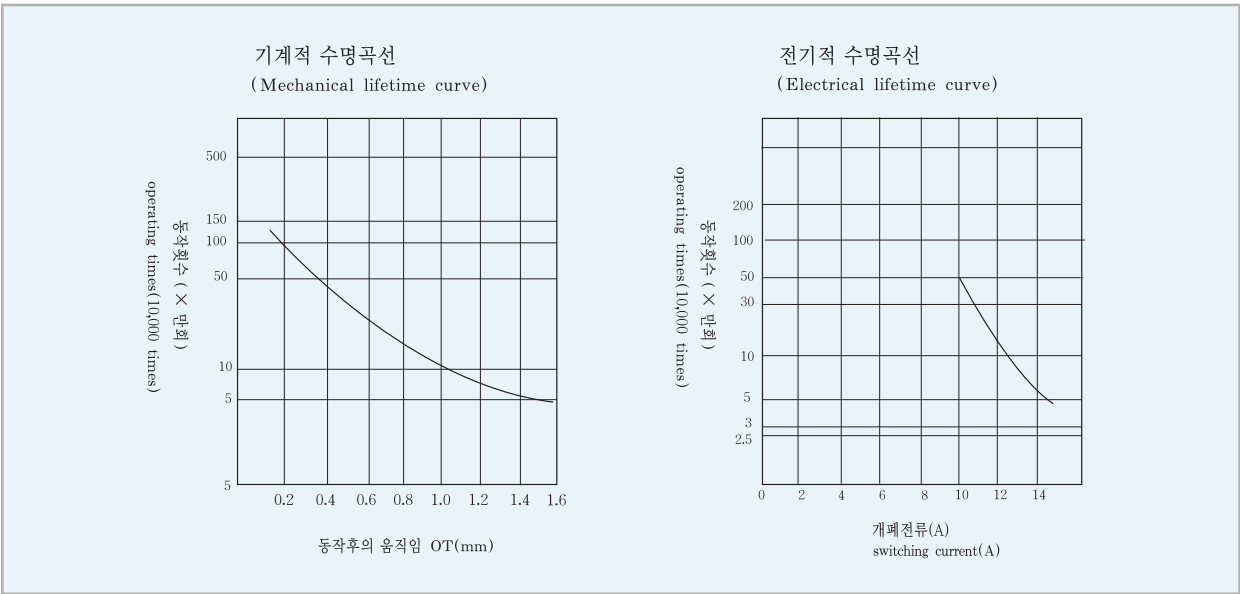


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성능 개요 | Performance Summary |

허용조작속도 (Allowable operating speed)		0.1mm ~ 1m/s
개폐빈도 (Switching frequency)	기계적 (Mechanical)	20 times/min
	전기적 (Electrical)	20 times/min
절연저항 (Insulation resistance)		Above 100MΩ (DC 500V. Meg)
접촉저항 (Contact resistance)		Below 50mΩ (Initial value)
내전압 (Withstand voltage)		AC 1,500V/min (50~60Hz)
내진동 (Withstand vibration)		Double amplitude 1.5 mm (10~55Hz)
내충격 (Withstand impact)		300 ㄱ (About 30G)
수명 (Lifetime)	기계적 (Mechanical)	Above 1,000,000 times
	전기적 (Electrical)	Above 100,000 times
사용주위온도 (Ambient temperature)		-25℃ ~ +55℃
상대습도 (Relative humidity)		45 ~ 85%

수명 곡선 | Lifetime Curve |



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정격 | Rated |

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정격전압(V) (Rated voltage(V))	무유도부하(A) (No-Inductive load(A))				유도부하(A) (Inductive Load(A))			
	저항부하 (Resistive load)(cosØ=1)		램프부하 (Lamp load)		유도부하 (Inductive load) (cosØ=0.4, L/R=7ms)		전동기부하 (Motor load)	
	상시폐로 (Normal close)	상시개로 (Normal open)	상시폐로 (Normal close)	상시개로 (Normal open)	상시폐로 (Normal close)	상시개로 (Normal open)	상시폐로 (Normal close)	상시개로 (Normal open)
AC 125	15		2		10		2	
250	10		1.5		6		2	
DC 8	10		3		6		3	
14	10		3		6		3	
30	6		3		4		3	
125	0.6		0.1		0.6		0.1	
250	0.3		0.05		0.3		0.05	

부품 재질 특성 | Part material Characteristics |

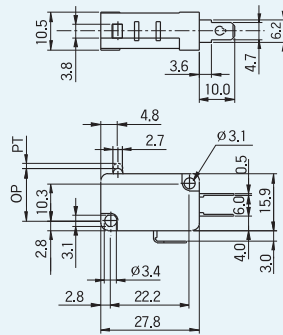
부품 (Part)	재질 (Materials)	특성 (Characteristics)
몸체 (Body)	PBT Resin	난연성, 내충격성, 내절연성, 내식성 양호 (Good of heat resistance, impact resistance insulation and corrosion resistance)
액추에이터 (Actuator)	Stainless 강 (Stainless steel)	내식성, 기계적 수명이 길다 (Corrosion resistance and long mechanical life time)
단자 (Terminal)	황동 (Brass)	전도성 양호 (Good of conductivity)
가동 단자 (Movable terminal)	베릴륨동 (Beryllium copper)	내식성, 복귀능력, 전도성 양호 (Good of corrosion resistance, resettability, conductivity)
접 점 (Contact)	은 (Silver)	산화방지, 낮은 접촉저항, 내마모성, 내아크성 양호 (Good of anti-oxidation, low contact resistance, wear resistance & arc resistance)

외형 / 치수도 | Shape / Dimension Drawing

(unit : mm)

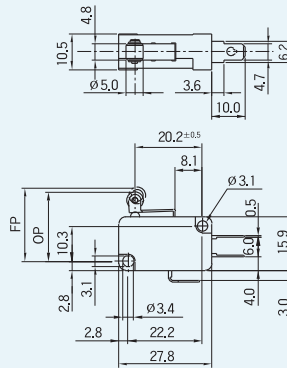
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YS P-15C



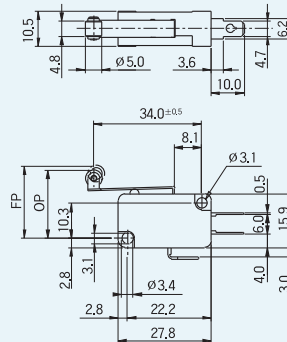
OF 최대(max.)	500gf
RF 최소(min.)	50gf
FP 최대(max.)	1.6mm
OT 최소(min.)	0.3mm
MD 최대(max.)	1.0mm
OP	14.7±0.7mm

YS R1-15C



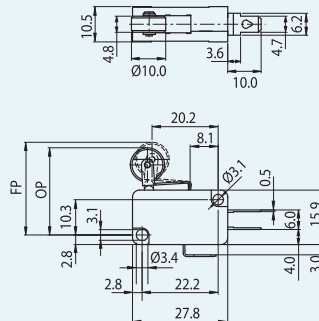
OF 최대(max.)	600gf
RF 최소(min.)	50gf
FP 최대(max.)	22.2mm
OT 최소(min.)	0.3mm
MD 최대(max.)	1.5mm
OP	20.6±1.0mm

YS R2-15C



OF 최대(max.)	300gf
RF 최소(min.)	15gf
FP 최대(max.)	23.8mm
OT 최소(min.)	0.6mm
MD 최대(max.)	3.0mm
OP	20.6±1.6mm

YS R3-15C



OF 최대(max.)	600gf
RF 최소(min.)	50gf
PT 최대(max.)	1.6mm
OT 최소(min.)	0.3mm
MD 최대(max.)	1.5mm
OP	25.6±1.0mm

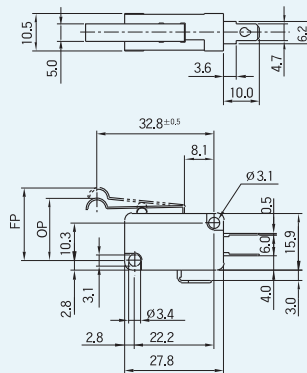
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외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

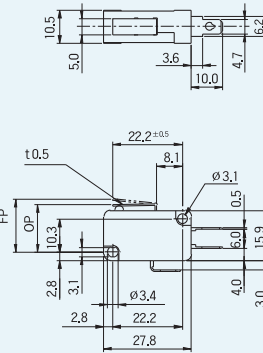
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YS RL-15C



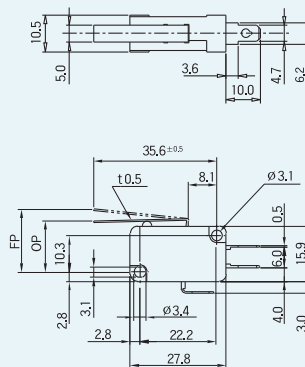
OF 최대(max.)	250gf
RF 최소(min.)	15gf
FP 최대(max.)	21.7mm
OT 최소(min.)	0.6mm
MD 최대(max.)	2.5mm
OP	17.0±1.6mm

YS L1-15C



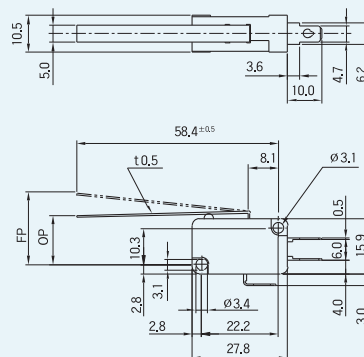
OF 최대(max.)	600gf
RF 최소(min.)	50gf
FP 최대(max.)	16.9mm
OT 최소(min.)	0.3mm
MD 최대(max.)	1.5mm
OP	15.3±0.6mm

YS L2-15C



OF 최대(max.)	300gf
RF 최소(min.)	15gf
FP 최대(max.)	18.5mm
OT 최소(min.)	0.6mm
MD 최대(max.)	3.0mm
OP	15.3±1.6mm

YS L3-15C



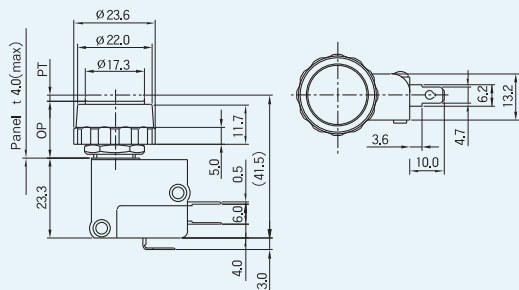
OF 최대(max.)	150gf
RF 최소(min.)	12gf
FP 최대(max.)	21.7mm
OT 최소(min.)	1.0mm
MD 최대(max.)	3.0mm
OP	13.0±1.6mm

외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

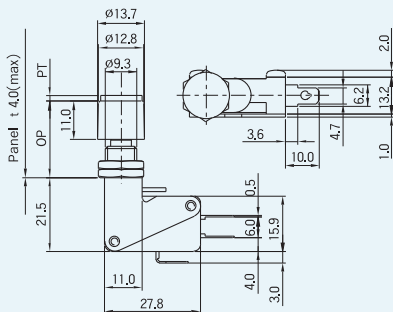
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YS P12-15C



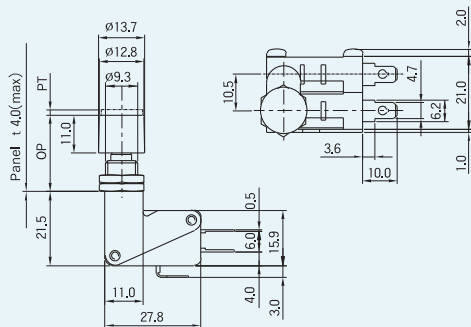
OF 최대(max.)	500gf
RF 최소(min.)	50gf
PT 최대(max.)	1.6mm
OT 최소(min.)	0.3mm
MD 최대(max.)	1.0mm
OP	16.5±0.7mm

YS P9S-15C



OF 최대(max.)	500gf
RF 최소(min.)	50gf
PT 최대(max.)	1.6mm
OT 최소(min.)	0.3mm
MD 최대(max.)	1.0mm
OP	22.0±0.7mm

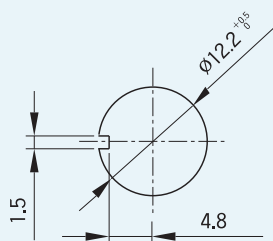
YS P9D-15C



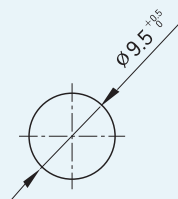
OF 최대(max.)	1,000gf
RF 최소(min.)	50gf
PT 최대(max.)	1.6mm
OT 최소(min.)	0.3mm
MD 최대(max.)	1.0mm
OP	22.0±0.7mm

판넬 가공 치수 | Cut-out Dimension |

(unit : mm)



P12 Type



P9S, P9D Type