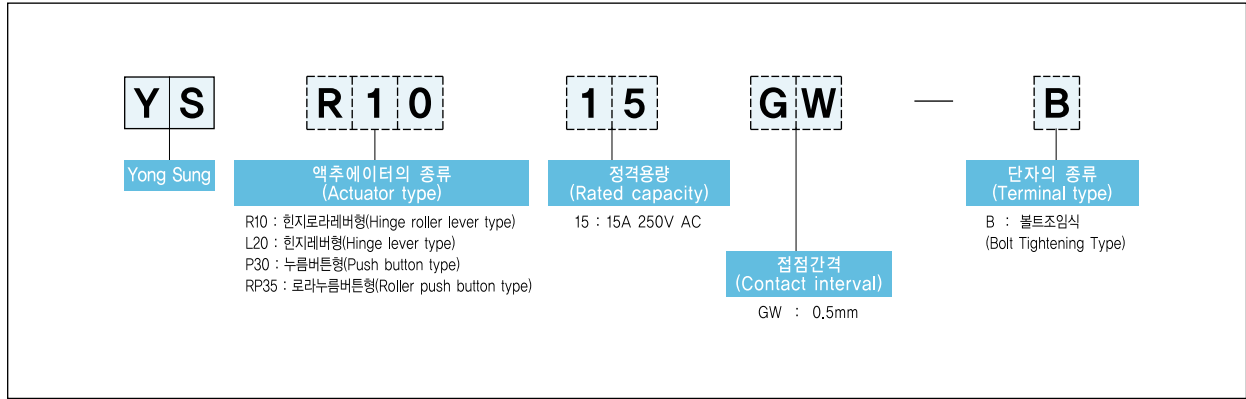


1-1

교류용 마이크로 스위치 (Z형) Alternating Current Micro Switch (Z Type)



형식 구분도 | Type Classification Diagram |



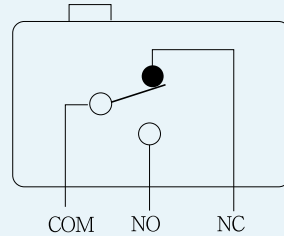
특징 | Features |

- 고신뢰성 마이크로 스위치
- AC 250V 15A의 개폐용량
- 고성능용으로 적합
- 액추에이터에는 누름버튼형과 힌지레버형 등의 다양한 종류가 있습니다.
- 내열, 내연 및 내아크성이 양호하므로 전기절연이 우수합니다.
- High-Reliability micro switch
- AC 250V 15A switching capacity
- Suitable for high performance use
- Various kinds of actuator such as push button type, hinge lever type etc.
- Excellent electric insulation due to good tendency of heat-resistant, smoke-resistant and arc-resistant.

용도 | Application |

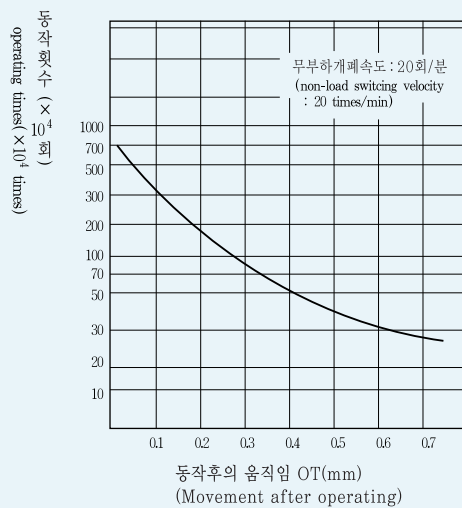
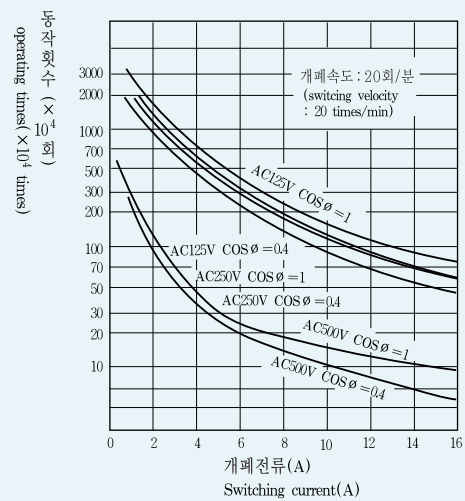
- 각종산업기계, 압력, 온도, 액면, 중량, 시간 등의 제어용 및 자동제어기기에 사용됩니다.
- Used for control of various kinds of industrial machines, pressure, temperature, liquid face, weight, speed, time etc., and for automatic control devices.

접점 구성도 | Contact Form Diagram |



DC용 com (+) (DC type com (+))

수명 곡선 | Lifetime Curve |

▶ 기계적 수명곡선
(Mechanical lifetime curve)▶ 전기적 수명곡선
(Electrical lifetime curve)

액추에이터의 종류 | Actuator Type |

분류명 (Classified type)	형상 (Shape)	특성 및 적용 (Characteristics & Application)		형식구분 (Designation)
단 누름버튼형 (Short push button)		버튼길이가 짧고 직경이 넓어 작동이 편함 (Easy operating by short button and wide dia.)		YS P3015GW-B YS P3010GW-B
장 누름버튼형 (Long push button)		저속CAM과 함께 사용 가능 (OT, 최대) (Possible to use with low speed CAM (OT, Max.))		YS P3315GW-B YS P3310GW-B
로라 누름버튼형 (Roller push button)		장누름버튼형에 로라부착 (OT, 대) (Roller Attached to long push button type (OT, large))		YS RP3615GW-B YS RP3610GW-B
가로 로라 누름버튼형 (Horizontal roller push button)		로라누름버튼형과 특성은 같으나 로라방향만 틀림 (Same characteristic as Roller push button except roller direction)		YS RP3515GW-B YS RP3510GW-B
힌지 단 레버형 (Hinge short lever)		동작력, 수명 정확도를 고려한 선택가능 (Choice possible considering operating force, life accuracy)	레버길이 최소 (Lever length Min.)	YS L2015GW-B YS L2010GW-B
힌지 중 레버형 (Hinge medium lever)			저속CAM에 사용가능 (Possible using for low speed CAM)	YS L2115GW-B YS L2110GW-B
힌지 장 레버형 (Hinge long lever)			저속CAM에 사용가능 (Possible using for low speed CAM)	YS L2215GW-B YS L2210GW-B
힌지 특장 레버형 (Hinge super long lever)			레버길이 최대 (Lever length Max.)	YS L2315GW-B YS L2310GW-B
힌지 로라 단 레버형 (Hinge roller short lever)		고속회전, 단직선 운동에 적합 (Suitable for high speed revolution & short linear movement)		YS R1015GW-B YS R1010GW-B
힌지 로라 중 레버형 (Hinge roller medium lever)		고속CAM에 적합 (Suitable for high speed CAM)		YS R1115GW-B YS R1110GW-B
힌지 로라 장 레버형 (Hinge roller long lever)		레버길이 최대 (Lever length Max.)		YS R1215GW-B YS R1210GW-B

정격 | Rated |

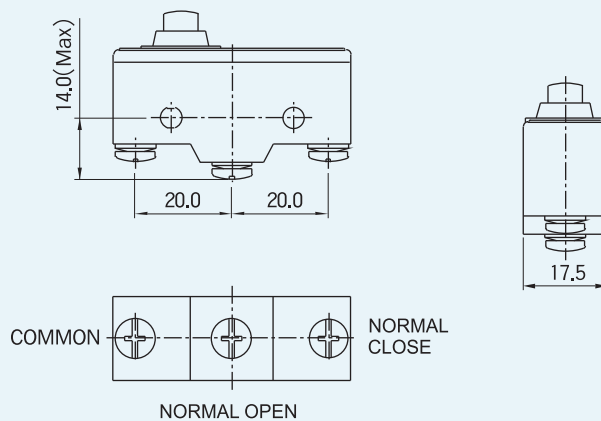
정격전압(V) (Rated voltage(V))	무유도부하(A) (No-inductive load(A))				유도부하(A) (Inductive load(A))			
	저항부하 (Resistive load)(cosØ=1)		램프부하 (Lamp load)		유도부하 (Inductive load) (cosØ=0.4, L/R=7ms)		전동기부하 (Motor load)	
	상시폐로 (Normal close)	상시개로 (Normal open)	상시폐로 (Normal close)	상시개로 (Normal open)	상시폐로 (Normal close)	상시개로 (Normal open)	상시폐로 (Normal close)	상시개로 (Normal open)
AC 125	15		2	1	7		2.5	2
250	15		1	0.5	5		1.5	1
DC 8	15		2	1	7		3	1.5
14	15		2	1	7		3	1.5
30	2		2	1	1		1	0.5
125	0.4		0.4	0.4	0.03		0.03	0.03
250	0.2		0.2	0.2	0.02		0.02	0.02

단자의 종류 | Terminal Types |

표시명 (Marking)	명칭 (Designation)
COM	공통단자 (Common terminal)
N.O	Normal open circuit
N.C	Normal close circuit

볼트 조임식 단자 | Bolt Tightening Type Terminal |

(unit : mm)



성능 개요 | Performance Summary |

개폐빈도 (Switching frequency)	기계적 (Mechanical)	20 times/min
	전기적 (Electrical)	20 times/min
절연저항 (Insulation resistance)		100M Ω 이상 (Above 100M Ω) (DC 500V. Meg)
접촉저항 (Contact resistance)		50m Ω 이하 (초기치) (Below 50m Ω , initial value)
내진동 (Withstand vibration)		복진폭 (Double amplitude) 1.5 mm (10 ~ 55Hz)
내충격 (Withstand impact)		300 ㄱ (About 30G)
내전압 (Withstand voltage)		AC 1,500V/min (50~60Hz)
수명 (Lifetime)	기계적 (Mechanical)	1000,000회 이상 (Above 1000,000 times)
	전기적 (Electrical)	100,000회 이상 (Above 100,000 times)
사용주위온도 (Ambient temperature)		-25℃ ~ +55℃
상대습도 (Relative humidity)		45 ~ 85%

형별 부품 재질 | Part Material Per Type |

형명 (Type) 부품 (Part)	YS R 힌지 로라 레버형 (Hinge roller lever type)	YS L 힌지 레버형 (Hinge lever type)	YS P 누름버튼형 (Push button type)	YS RP 로라 누름버튼형 (Roller push button type)
몸체 (Body)	열경화성 페놀 수지 (Thermosetting Phenol resin)			
액추에이터 (Actuator)	스테인레스강 (Stainless steel)		황동 + 니켈도금 (Brass + Ni도금)	
단자 (Terminal)	황동 (Brass)			
가동 스프링 (Movable spring)	베릴륨동 (Beryllium copper)			
접점 (Contact)	은합금 (Silver alloy)			
부싱 (Bushing)	-		황동 (Brass)	

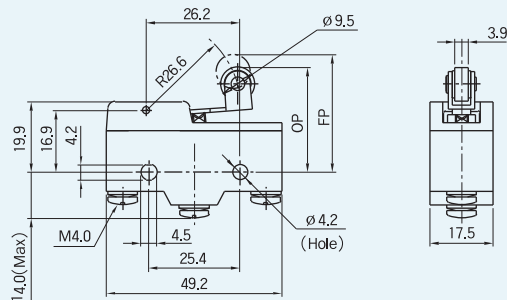
재질 특성 | Material Features |

- 열경화성 페놀수지 : 내열성, 내충격성, 내절연성, 내식성 양호
- Stainless 강 : 내식성, 휨강도, 내마모성, 내열성 양호
- 황동 : 전도성 양호
- 베릴륨동 : 전도성, 내식성, 복귀능력 양호
- 은접점 : 산화방지, 내마모성, 내아크성, 낮은 접촉저항, 낮은온도 상승, 긴 수명
- Thermosetting phenol resin : good of heat resistance, impact resistance insulation corrosion resistance
- Stainless steel : good of corrosion resistance, wear resistance, heat resistance and bending strength
- Brass : good of conductivity
- Beryllium copper : good of conductivity, corrosion resistance and return capability
- Silver : anti-oxidation, wear resistance, arc resistance, low contact resistance, low temperature increase, long life-time

외형 / 치수도 | Shape / Dimension Drawing |

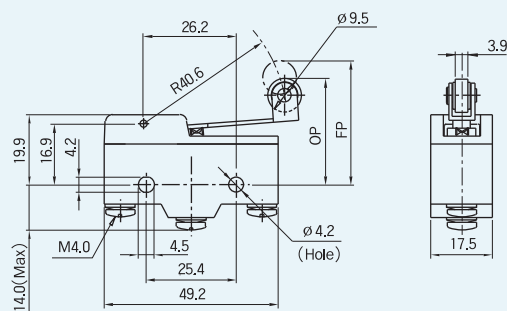
(unit : mm)

YS R1015GW-B



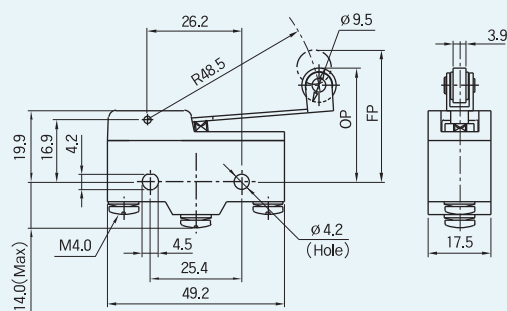
OF 최대(max.)	160gf
RF 최소(min.)	28gf
OT 최소(min.)	2.0mm
MD 최대(max.)	1.2mm
FP 최대(max.)	32.9mm
OP	30.2±1.0mm

YS R1115GW-B



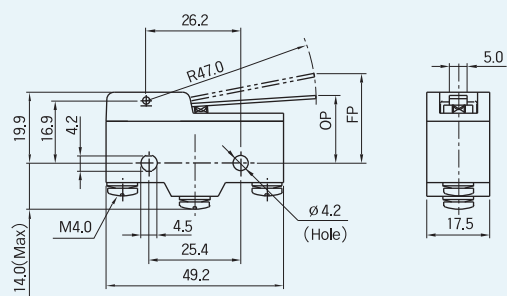
OF 최대(max.)	130gf
RF 최소(min.)	50gf
OT 최소(min.)	4.0mm
MD 최대(max.)	3.0mm
FP 최대(max.)	35.0mm
OP	30.2±1.0mm

YS R1215GW-B



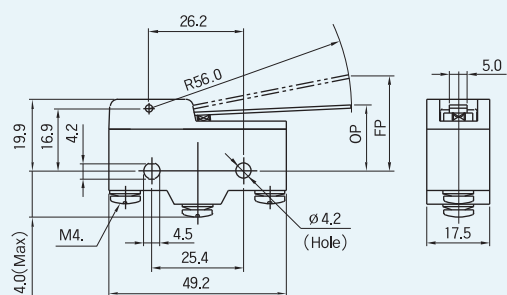
OF 최대(max.)	100gf
RF 최소(min.)	15gf
OT 최소(min.)	3.6mm
MD 최대(max.)	2.4mm
FP 최대(max.)	36.5mm
OP	30.2±1.0mm

YS L2015GW-B



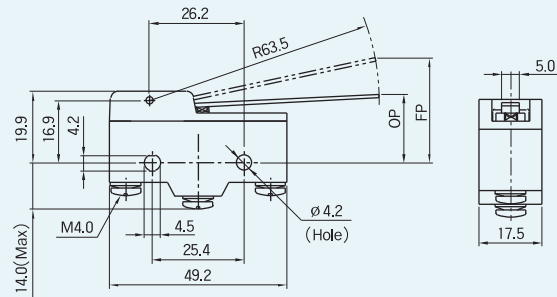
OF 최대(max.)	120gf
RF 최소(min.)	50gf
OT 최소(min.)	2.0mm
MD 최대(max.)	2.0mm
FP 최대(max.)	24.8mm
OP	19.1±1.0mm

YS L2115GW-B



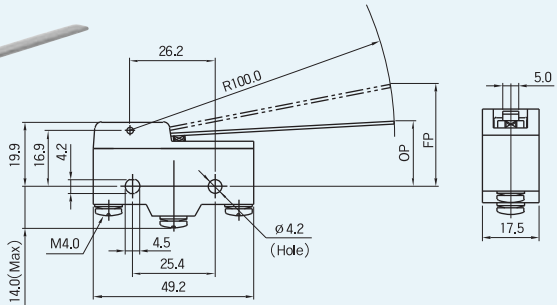
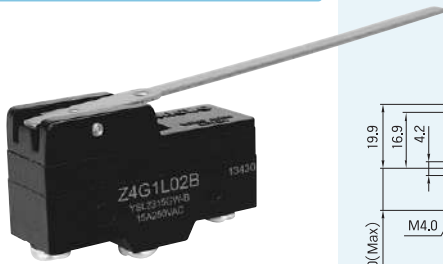
OF 최대(max.)	100gf
RF 최소(min.)	40gf
OT 최소(min.)	3.0mm
MD 최대(max.)	3.0mm
FP 최대(max.)	26.4mm
OP	19.1±1.0mm

YS L2215GW-B



OF 최대(max.)	100gf
RF 최소(min.)	15gf
OT 최소(min.)	4.0mm
MD 최대(max.)	2.4mm
FP 최대(max.)	29.1mm
OP	19.1±1.0mm

YS L2315GW-B

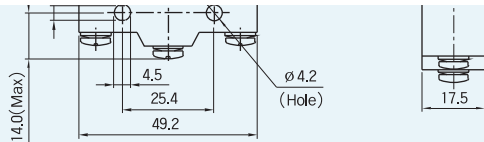


OF 최대(max.)	80gf
RF 최소(min.)	14gf
OT 최소(min.)	8.0mm
MD 최대(max.)	5.0mm
FP 최대(max.)	34.9mm
OP	19.1±1.2mm

YS P3015GW-B

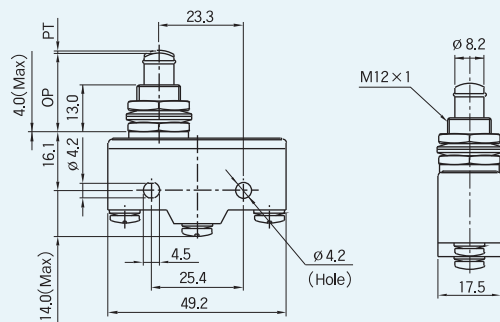


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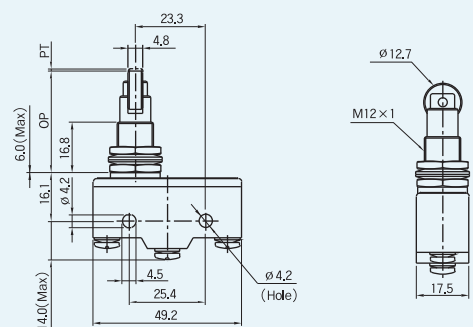
OT 최소(min.)	1.3mm
MD 최대(max.)	0.13mm
PT 최대(max.)	1.0mm
OP	21.2±0.8mm

YS P3315GW-B



OF 최대(max.)	380gf
RF 최소(min.)	114gf
OT 최소(min.)	5.2mm
MD 최대(max.)	0.13mm
PT 최대(max.)	1.0mm
OP	21.8±0.8mm

YS RP3515GW-B

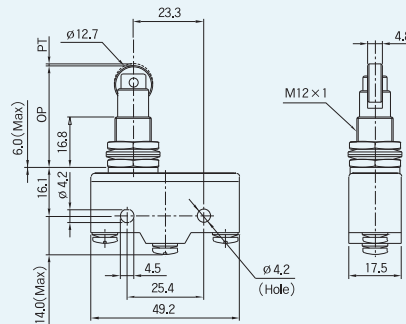


OF 최대(max.)	380gf
RF 최소(min.)	114gf
OT 최소(min.)	3.2mm
MD 최대(max.)	0.13mm
PT 최대(max.)	1.0mm
OP	33.3±1.4mm

외형 / 치수도 | Shape / Dimension Drawing |

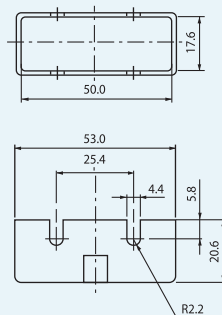
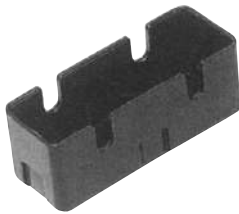
(unit : mm)

YS RP3615GW-B



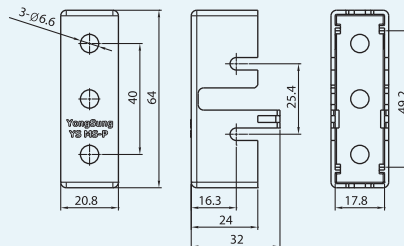
OF 최대(max.)	380gf
RF 최소(min.)	114gf
OT 최소(min.)	3.2mm
MD 최대(max.)	0.13mm
PT 최대(max.)	1.0mm
OP	33.3±1.4mm

YS MS-C



- 단자부 보호커버
- 본체 및 단자 접촉선 보호역할
- 단자간의 단락, 접지, 단선 등과 접속불량 및 감전사고 방지
- Protection cover between terminals
- Protection function for body and terminal contact wire
- Protection against short circuit between terminals grounding, short wire etc., and bad contact and electric shock

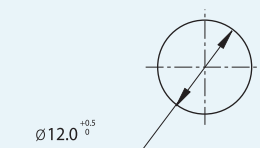
YS MS-P



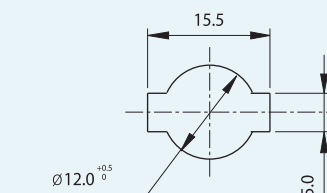
- 보호커버
- 재질 : Polycarbonate resin
- 색상 : 투명
- Protection cover
- Material : Polycarbonate resin
- Color : Transparency

판넬 가공 치수 | Cut-out Dimension |

(unit : mm)



P3315



RP3515 / RP3615