

HONG SUNG PRECISION CO.,LTD



HLS Series

LIMIT SWITCH for heavy-duty, high-vibration, high-temperature, special environment type

LIMIT SWITCH of HPC is especially for the large-scale plants.

LIMIT SWITCH of HPC is used at high-impact, high-vibration and high-temperature environment up to 120°C

LIMIT SWITCH of HPC has a special rust preventive coating on the surface.

So the product lifespan is longer than other products.



Typical Applications »

- Power plant valve & Damper
- Actuator
- Water Treatment Equipment
- Heavy-duty, high vibration, high temperature, special environment type limit switch

Features »

- 뛰어난 방청성능 (한국화학융합시험연구원에서 공인)
Excellent anti-rust performance (Certified by KTR)
- 우수한 방수, 방진성능으로 다양한 환경에서 사용가능 (IP65 등급)
Excellent waterproof, dustproof performance is very useful for use in a variety of environments. (IP 65 Grade)
- 유지보수 시간이 절감되는 넓은 단자대 결선 공간(작업 효율성 증대)
Using a large terminal (Reduce maintenance time)
- 고온환경과 내충격에 강한 소재 채택 (제품수명의 증대)
Suitable for use in high temperature and impact environment. (Increase durability of products)
- 고품질, 저비용의 고객 만족 실현
High quality but low cost compared to existing products

Certified by the organizations below »

한국 기계 연구원

내진동, 내충격 테스트

한국 화학융합시험연구원

염수분무 테스트

한국 기계전기전자시험연구원

방수방진, 전기안정성, 내화성 검증

Specifications »

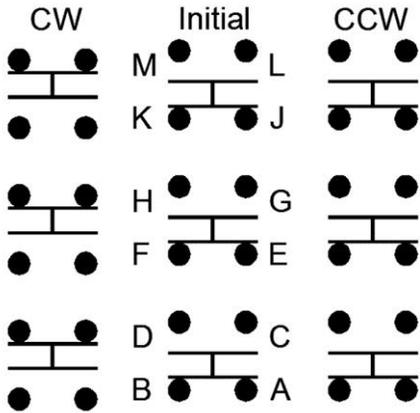
VOLTAGE	AC	DC
125	20.0	5.0
250	15.0	1.5
480	10.0	-
600	5.0	-

Performance »

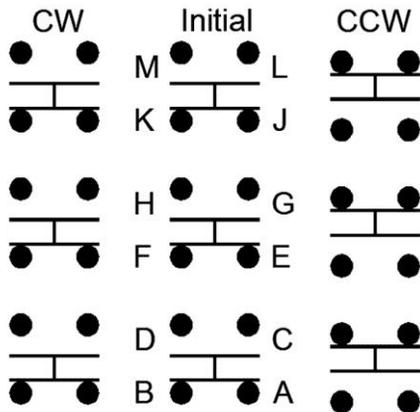
Degree of protection		IP65
Insulating resistance		Min 100M Ω (D.C 500M)
Contact resistance		Max 25M Ω
Inrush Electric current		20A
Dielectric strength	Between live part	AC 1000V (50/60Hz 1min)
	Between non-live part	AC 2000V (50/60Hz 1min)
Vibration protection		5Hz~2KHz, 50G, 11ms
Max operating speed		0.1~1m/s
Shock protection	Invasion	500 m/s ²
	Non-action	250 m/s ²
Life time	Mechanical	1 mil Min
	Electrical	1 mil Min
Operating temperature range		-10 $^{\circ}$ C ~ +120 $^{\circ}$ C
Operating humidity range		20~85% RH
Ignition temperature limits		750 $^{\circ}$ C

Contact Configurations »

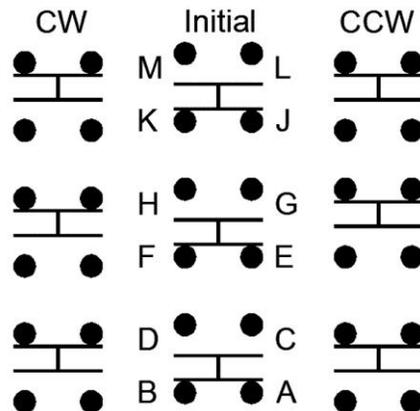
CIRCUIT A



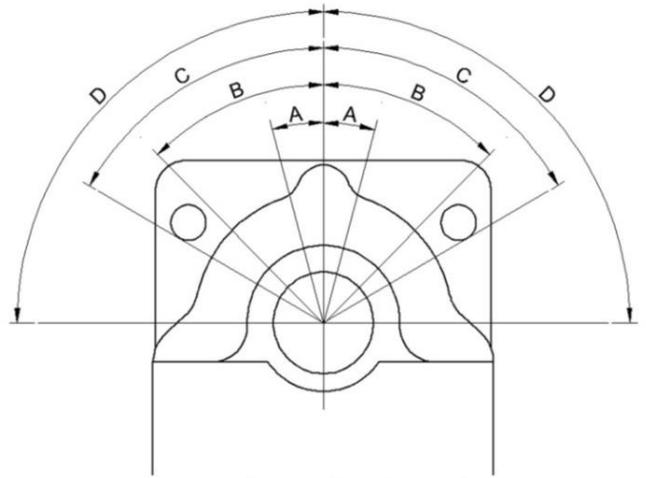
CIRCUIT B



CIRCUIT C



Operational Data Drawings »



- A. Trip Travel ----- 15°
- B. Recommend Travel ----- 45°
- C. Risk Travel ----- 60°
- D. Total Travel ----- 90°

Terminal Block

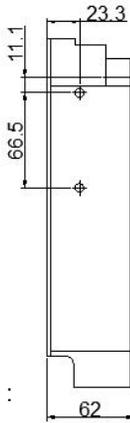


Dimensions and Mounting »

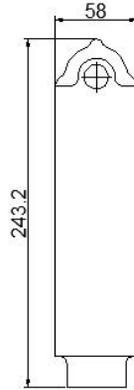


HLS-700

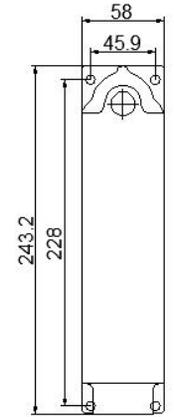
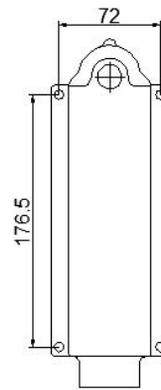
TPDT TYPE
(Triple Pole Double Throw) :
3 N.O 3 N.C



Standard Mounting



Wide Mounting

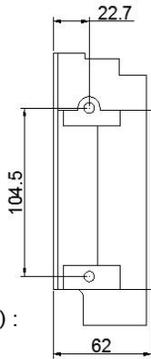


Long Mounting

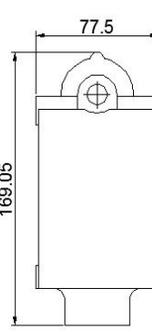


HLS-170

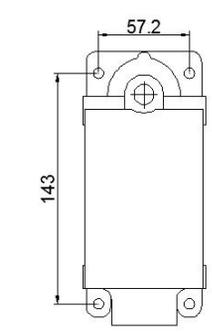
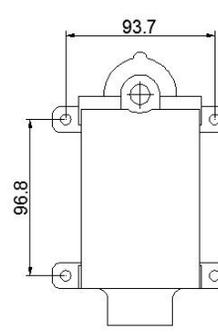
DPDT TYPE
(Double Pole Double Throw) :
2 N.O 2 N.C



Standard Mounting



Wide Mounting



Long Mounting

CATALOG NUMBERS »

For Type

Typical Cams

Mounting Type

Environment

9

0

1

1

700	9
170	3
170 Reverse Shaft	4

CW/CCW	0
CW	1
CCW	2

standard	1
wide	2
long	3

normal	1
high temperature	2

WL Series

SPDT TYPE(Single Pole Double Throw) : 1 N.O 1 N.C

Features »

- 01 • 일반형 2회로 쌍단 스위치 사용
Double-circuit type of limit switch is widely used.
- 02 • 견고한 알루미늄 다이캐스팅 케이스
With strong aluminum cast outer shell
- 03 • 높은 기계적 강도
High mechanical strength
- 04 • 기름, 물, 압력 등에 강한 구조로 설계
Structure preventing oil, water and pressure
- 05 • 다양한 액추에이터에 설치 가능
Various of actuators is taken convenience for using
- 06 • 기계적 수명이 긴 이중 스프링 채택
Built-in contact stand has double-spring, so it has long mechanical life

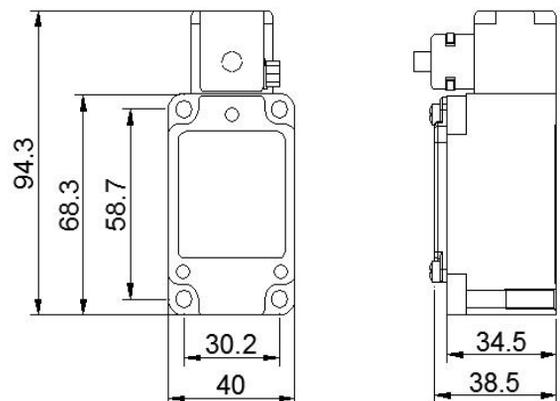
Dimensions and Mounting »



WLD2

WLCA2-2

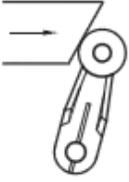
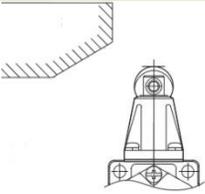
WLCA12-2-Q



Performance »

Degree of protection		IP67
Max. Voltage		AC250V
Inrush electric current		10A
Insulating resistance		Min 100M Ω (500VDC)
Contact resistance		Max 25M Ω
Vibration resistance		10Hz~55Hz, 1.5mm
Shock resistance		Max 300m/s ² , 30G less than
Life time	Mechanical	15,000,000 times
	Electrical	750,000 times
Operating temperature range		-10 $^{\circ}$ C ~ +80 $^{\circ}$ C

Performance characteristics »

	WLCA2-2 WLCA12-2-Q	WLD2
Triggering	30 $^{\circ}$ convex trigger	30 $^{\circ}$ convex trigger
Triggering type		
Max triggering Speed	1.3m/s	0.5m/s
Max triggering force	1360g	2720g
Min restoring force	227g	910g
Weight (kg)	0.33	0.25