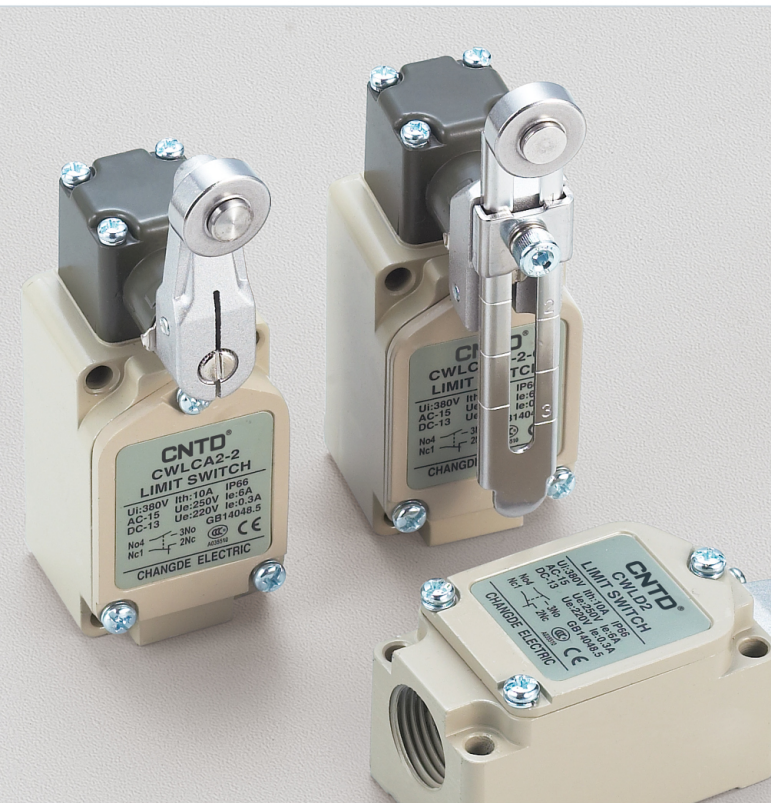




Ratings

Rated Voltage	Noninductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10	3	1.5	10	5	2.0		
250VAC	5	2	1	5	3	1.0		
480VAC	3	1.5	0.8	3	1.5	0.8		
600VAC	1	1	0.5	1.5	1	0.5		
8VDC	10	6	3	10	6			
14VDC	10	6	3	10	6			
30VDC	6	4	3	6	4			
125VDC	0.8	0.2	0.2	0.8	0.2			
250VDC	0.4	0.1	0.1	0.4	0.1			

NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

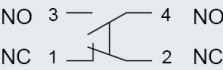
Operating Characteristics

Model	CWL	CWLCA2-2	CWL2	CWLNJ	CWLNJ-S2	CWLCA12-2-Q CWLCA12-2-QD	CWLCL	CWLCA32-41 CWLCA32-42	CWLD	CWLNJ-2	CWLNJ-30	CWLD1	CWLD3
Operating Force	OF(Max.)	1360g	2720g	150g	29g	1360g	142g	1200g	2720g	120g	80g	2720g	2720g
Release Force	RF(Min.)	227g	910g	-	-	227g	28g	-	910g	-	-	910g	910g
Pre-Travel	PT(Max.)	20°	1.7mm	28mm	28mm	20°	20°	55°	1.7mm	28mm	28mm	1.7mm	1.7mm
Over Travel	OT(Min.)	30°	5.6mm	-	-	30°	30°	35°	6.4mm	-	-	5.6mm	5.6mm
Movement Differential	MD(Max.)	12°	1mm	-	-	12°	12°	-	1mm	-	-	1mm	1mm
Total Force	TF(Max.)	2720g	-	-	-	2720g	200g	-	-	-	-	2720g	2720g
Total Travel	TT(Min.)	50°	6.5 ± 0.8mm	-	-	50°	50°	OP:90 ± 10°	OP:34 ± 2.8mm	-	-	6.5 ± 0.8mm	9 ± 0.8mm

Features

- Double-circuit type of limit switch
- High mechanical strength, mainly consists of aluminum cast
- Water-proof and oil-proof construction
- Various actuators for different applications
- Built-in contact box with double spring mechanism, longer mechanical life

Contact Form



Specifications

Operation speed	1mm-1m/s
Operating frequency	Electical: 30 operations/min
Contact resistance	25mΩ max. (initial value)
Insulation resistance	100mΩ min. (below 500VDC)
Dielectric strength	1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60 Hz for 1 minute between each terminal and ground
Vibration	10-55Hz,1.5mm double amplitude
Shock	Mechanical durable: 1, 000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
Ambient temperature	Using: -20~+80℃ (With no icing)
Humidity	<95% RH
Electrical life	500,000 operations above
Protection level	IP66

NOTES: The default size of conduit connector is M20x1.5, outfitting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:CWLCA2-2-P.

Appearance and Dimension

CWLCA2-2

CWLCA12-2-Q

CWLCL

CWLD

CWLD1

CWLD2

CWLD3

CWLCA12-2-QD