CSA Vertical Limit Switch

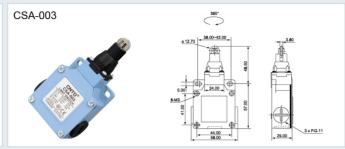


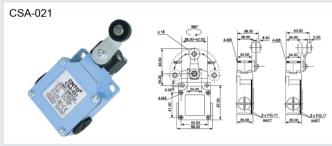


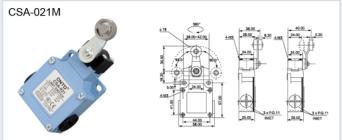


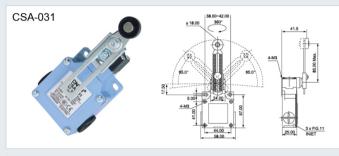
Appearance and Dimension

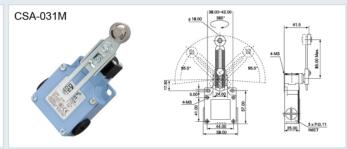


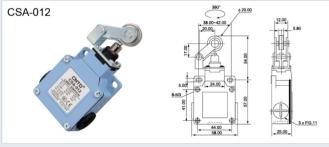


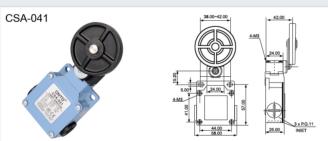


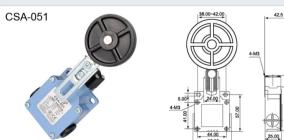


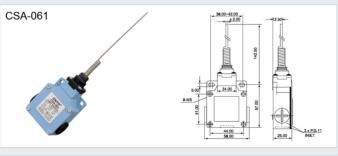


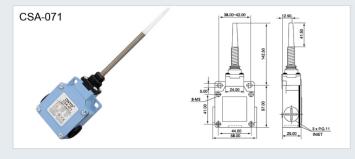


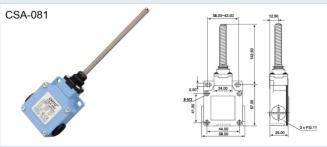














Features

- Double circuit type of limit switch
- Economic plastic type of limit switch
- Small size, water-proof and oil-proof construction
- Built-in contact box has double-spring and long mechanical life
- Smooth operation with larger over travel distance
- Various actuators for different applications

Contact Form

Ratings

Rated Voltage	No	ninductiv	e Load	(A)	Inductive Load (A)					
	Resistance Load		Lamp	Load	Induction	ve Load	Motor Load			
	NC	NO	NC	NO	NC	NO	NC	NO		
125VAC	5	5	1.5	0.7	3	3	2	1		
250VAC	5	5	1	0.5	3	3	1.5	0.8		
8VDC	5	5	3	3	5	4	3	3		
14VDC	5	5	3	3	4	4	3	3		
30VDC	5	5	3	3	4	4	3	3		
125VDC	0.4	0.4								
250VDC	0.2	0.2								
Inrush Current	N.C: below 24A, N.O: below 12A									

NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. NOTES: The default size of conduit connector is M20x1.5, outfitting cable connector. Conduit

- 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.
- Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

Specifications

Operation speed	5mm-0.5m/s					
Operating frequency	Electical: 30 operations/min					
Contact resistance	25m $Ω$ max. (initial value)					
Insulation resistance	100m Ω min. (below 500VDC)					
	1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts					
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 each terminal and ground					
Vibration	10-55Hz,1.5mm double amplitude					
Shock	Mechanical durable: 1, 000m/Sec² (about 100G'S) Malfunction: 300m/Sec² (about 30G'S)					
Ambient temperature	Using: -20~+70℃ (With no icing)					
Humidity	<95% RH					
Electrical life	500,000 operations above					
Protection level	IP66					

connector size is PG13.5, with product model number plus (-P), example:CLS-103-P.

Operating Characteristics

Model	CLS	101	102/103	111	121/121M	127	131/131M	161	171	181	191
Wodel		301	302/303	311	321/321M	327	331/331M	361	371	381	391
Operating force	OF (Max.)	700g	700g	700g	500g	700g	500g	100g	100g	100g	5000
Release force	RF (Min.)	200g	200g	200g	100g	200g	100g	40g	40g	40g	1000
Pre-travel	PT (Max.)	1.8mm	1.8mm	1.8mm	20°	1.8mm	20°	30mm	30mm	30mm	20°
Tripping position	TP ± 10%	2.0mm	2.0mm	2.0mm	22.5°	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5
Movement differential	MD(Max.)	1.2mm	1.2mm	1.2mm	10°	1.2mm	10°	14°	14°	14°	10°
Over travel	OT (Min.)	4.0mm	4.0mm	4.0mm	75°	4.0mm	75°	20mm	20mm	20mm	75°
Total travel	TT (Min.)	5.8mm	5.8mm	5.8mm	95°	5.8mm	95°	50mm	50mm	50mm	95°
Rotary indexing					22.5°		22.5°				22.5

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