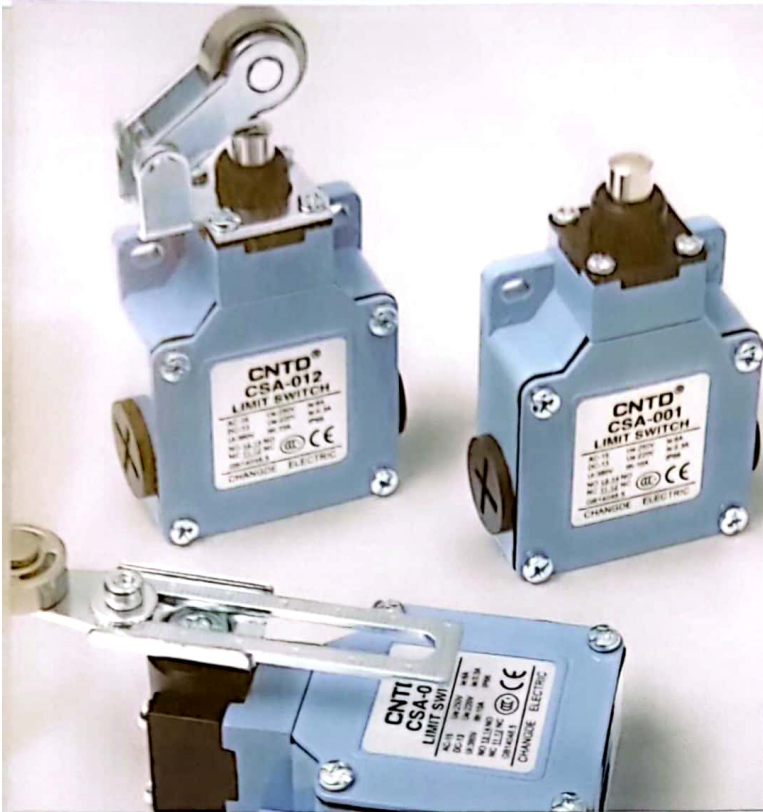


# CSA 立式限位开关 Vertical Limit Switch



## 特点 Features

- 双回路型限位开关
  - 结构坚固, 由锌合金及强化塑胶组成
  - 可防水, 防油
  - 内藏触点座有双簧片设计, 机械寿命长
  - 具有较大的过行程
  - 引动器种类多, 方便使用
- Double circuit type of limit switch
  - High mechanical strength, consists of intensive plastic and aluminum cast
  - 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 application

## 接点型式 Contact Form



## 额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 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						
突入电流 Inrush Current	N.C.:24A 以下, N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

- 注: 1. 电感性负载之功率因素在 0.4 以上 (AC), 时间常数在 7msec 以下 (DC).  
2. 灯泡负载之突入电流为稳定状态电流之 10 倍, 马达负载之突入电流为稳定状态电流之 6 倍.  
3. 带弹簧系列产品, 操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内.

- 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.

## 动作特性 Operating Characteristics

型号	Model	CSA	CSA-001	CSA-003	CSA-012	CSA-021 CSA-021M	CSA-041	CSA-031 CSA-031M	CSA-051	CSA-061	CSA-071	CSA-081
操作力	Operating force	OF (最大)(Max.)	800g	800g	800g	400g	400g	400g	400g	150g	150g	150g
回弹力	Release force	RF (最小)(Min.)	400g	400g	400g	100g	100g	100g	100g	50g	50g	50g
预行程	Pre-travel	PT (最大)(Max.)	1.8mm	1.8mm	1.8mm	20°	20°	20°	20°	30mm	30mm	30mm
触发位置	Tripping position	TP ± 10%	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°
行程移动分辨率	Movement differential	MD (最大)(Max.)	1.2mm	1.2mm	1.2mm	10°	10°	10°	10°	14°	14°	14°
过行程	Over travel	OT (最小)(Min.)	4.0mm	4.0mm	4.0mm	75°	75°	75°	75°	20mm	20mm	20mm
总行程	Total travel	TT (最小)(Min.)	5.8mm	5.8mm	5.8mm	95°	95°	95°	95°	50mm	50mm	50mm
摇臂转换分角度	Rotary indexing					22.5°	22.5°	22.5°	22.5°			

## 规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气: 30 次 / 分 Electrical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久: 1,000m/Sec <sup>2</sup> (约 100G' S) 误动作耐久: 300m/Sec <sup>2</sup> (约 30G' S) Mechanical durable: 1,000m/Sec <sup>2</sup> (about 100G'S) Malfunction: 300m/Sec <sup>2</sup> (about 30G'S)
周围温度 Ambient temperature	使用时: -20~+70°C (没有结冰) Using: -20~+70°C (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Protection level	IP66

- 注: 导管连接器尺寸常规默认为 M18x1.5; 导管连接器尺寸 PG11.5, 型号加 (-P), 例: CSA-012-P.  
NOTES: The default size of conduit connector is M18x1.5. Conduit connector size is PG11.5, with product model number plus (-P), example: CSA-012-P.