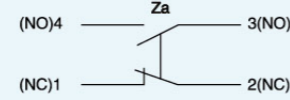


### 特征 Features

- 经济塑料型
- 不锈钢滚轮, 冲头及弹簧
- 特大 ±95° 摇臂摆幅
- 导管连接器尺寸标配 M20 × 1.5
- Economical & plastic type
- Stainless steel roller, punch and spring
- Swing amplitude, extra large ±95°
- M20x1.5 cable gland that can be equipped

### 接触形式 Contact form



### 额定值 Ratings

额定电压 Rated voltage	非感性负载 Noninductive Load (A)				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. 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。

NOTE: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.(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.

### 特性 Characteristics

操作速度 Operation speed	5mm 至 0.5m/sec 5mm-0.5m/sec
动作频率 Operating frequency	电气: 30 次/分 Electrical: 30 operations/minute
接点电阻 Contact resistance	25mΩ (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100mΩ 以上 (在 500VDC 以下) 100mΩ min. (at 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity 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 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 50Hz, 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 <sup>2</sup> S) 误动作耐久: 300m/Sec <sup>2</sup> (约 30G <sup>2</sup> S) Mechanical durable: 1,000m/Sec <sup>2</sup> (about 100G <sup>2</sup> S) Malfunction: 300m/Sec <sup>2</sup> (about 30G <sup>2</sup> S)
周围温度 Ambient temperature	使用时: -10~+65°C (没有结冰 With no icing)
湿度 Humidity	95%RH 以下 <95% RH
重量 Weight	约 59 至 113g(TLS-1) About 59 to 113g 约 72 至 123g(TLS-3) About 72 to 123g
电气寿命 Electrical life	500000 次以上 Above 500000
保护构造 Degree of protection	IP65

### 动作特性 Operating Characteristics

动作特性 Operating Characteristics	型号 Model Type	TLS 101 301	TLS 103 303	TLS 111 311	TLS 121 321	TLS 127 327	TLS 131 331	TLS 161 361	TLS 171 371	TLS 181 381	TLS 191 391
操作力 Operating force	OF 最大 (Max)	6.86N	6.86N	6.86N	4.9N	6.86N	4.9N	0.98N	0.98N	0.98N	4.9N
回弹力 Release force	RF 最小 (Min)	1.96N	1.96N	1.96N	0.98N	1.96N	0.98N	0.392N	0.392N	0.392N	0.98N
前预行程 Pre-travel	PT 最大 (Max)	1.8mm	1.8mm	1.8mm	20°	1.8mm	20°	30mm	30mm	30mm	20°
触发位置 Tripping position	TP ± 10%	2.0mm	2.0mm	2.0mm	22.5°	2.0mm	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°	1.2mm	10°	14°	14°	14°	10°
触后行程 Over travel	OT 最小 (Min)	4.0mm	4.0mm	4.0mm	75°	4.0mm	75°	20mm	20mm	20mm	75°
累积总行程 Total travel	TT 最小 (Min)	5.8mm	5.8mm	5.8mm	95°	5.8mm	95°	50mm	50mm	50mm	95°
摇臂转换角度 Rotary indexing					22.5°		22.5°				22.5°

### 外观和尺寸 Appearance and Dimension

<p>TLS-101</p>	<p>TLS-131</p> <p>* 可选配塑料滚轮 Optional plastic roller</p>
<p>TLS-103</p>	<p>TLS-161</p>
<p>TLS-111</p>	<p>TLS-171</p>
<p>TLS-121</p> <p>* 可选配塑料滚轮 Optional plastic roller</p>	<p>TLS-181</p>
<p>TLS-127</p>	<p>TLS-191</p> <p>* 可选配可调式橡胶滚轮 Optional adjusted rubber roller</p>