

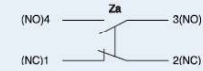
外观和尺寸 Appearance and Dimension

<p>TLS-301</p>	<p>TLS-331</p> <p>14.98mm stainless steel roller 可选尼龙滚轮 Nylon Roller LSK-331P</p>
<p>TLS-303</p>	<p>TLS-361</p>
<p>TLS-311</p>	<p>TLS-371</p>
<p>TLS 321</p> <p>可选尼龙滚轮 Nylon Roller LSK-321P</p>	<p>TLS 381</p>
<p>TLS-327</p>	<p>TLS-391</p>

特征 Features

- 双回路型限位开关，用途广泛
 - 典型筒之一体铸造铝合金外壳
 - 高机械强度
 - 具耐油、防水和防压结构
 - 因装有设定位置指示板，故维护容易
 - 引动器种类多，方便使用
 - 内藏接点座有双簧片设计，机械寿命长
 - 可选配 M20x1.5 索头
- Double-circuit type of limit switch, is widely used
 - With strong aluminum cast outer shell
 - High mechanical strength
 - Structure preventing oil, water and pressure
 - Indicating plate with setting position is installed in it, so it is easy to maintain
 - Various of actuators is taken convenience for using
 - Built-in contact stand has double-spring, so it has long mechanical life
 - Selective M20x1.5 cable gland

接触形式 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	马达负载 Motor Load	电感性负载 Inductive Load	马达负载 Motor Load	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		

浪涌电流 Surge current	NC		30A 以下 (under)	
	NC	NO	NC	NO
			20A 以下 (under)	

注：1、电感性负载：功率因素=0.4；时间常数=7msec。
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./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.

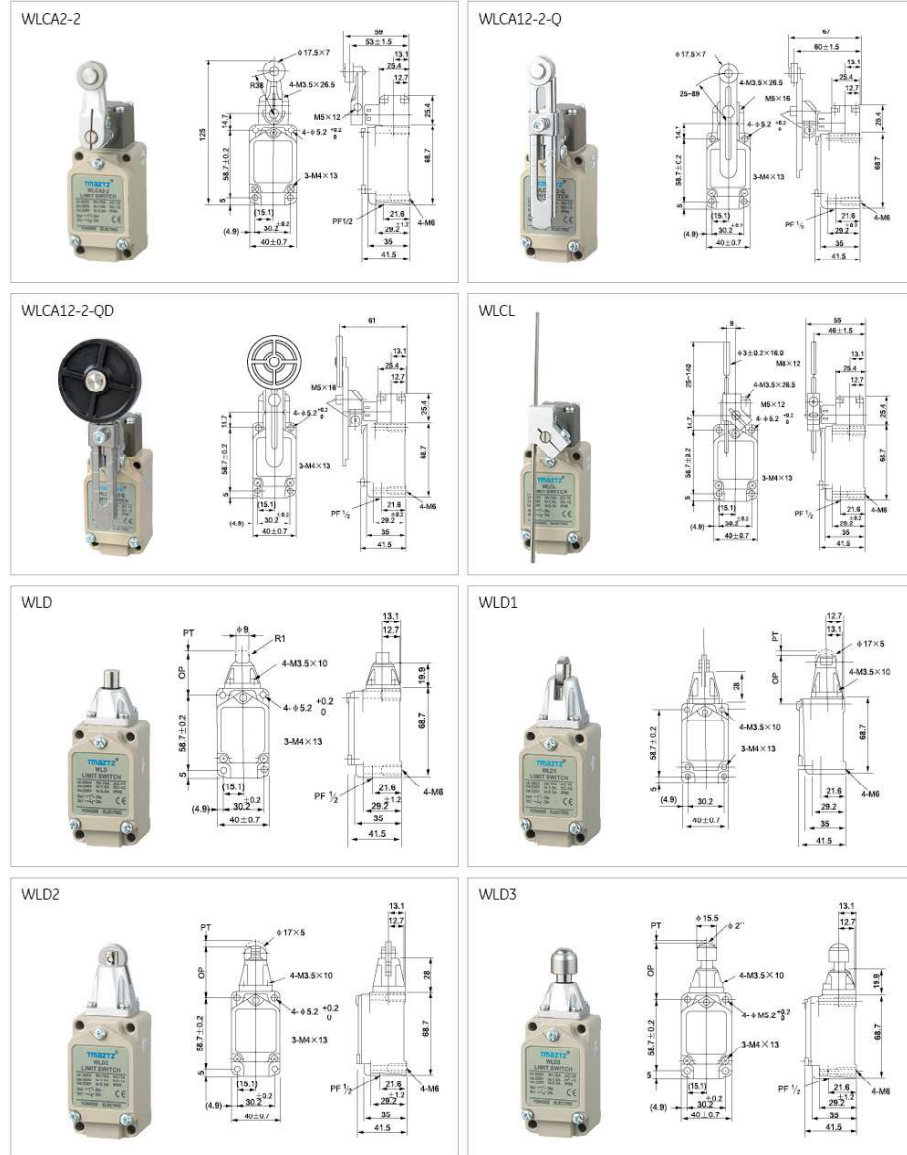
特性 Characteristics

操作速度 Operation speed	1mm 至 2m/s(WLCA2 型)
动作频率 Operating frequency	机械: 120 次/分 电气: 30 次/分 Mechanical: 120 operations/minute Electrical: 30 operations/minute
接点电阻 Contact resistance	15mΩ 以下 (初期) 15mΩ 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 1,000VAC, 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 1,500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子与接地之间: 1,500VAC, 50/60Hz 持续 1 分钟 1,500VAC, 50/60 Hz for 1 minute between each terminal and ground
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 ² 约 100G ² S 误动作耐久: 300m/Sec ² 约 30G ² S Mechanical durable: 1,000m/Sec ² (about 100G ² S) Malfunction: 300m/Sec ² (about 30G ² S)
周围温度 Ambient temperature	使用时: -10~+80°C (没有结冰 With no icing)
湿度 Humidity	95%RH 以下 <95% RH
重量 Weight	约 275g(CW/LCA2-2) About 275g
保护构造 Degree of protection	IEC 规格: IP66 IEC specification: IP66

动作特性 Operating Characteristics

动作特性	型号 Model	WLCA2-2	WL CA12-2-Q	WL CA12-2-QD	WLCL	WLD	WLD1 D2	WLD3	WL NJNJ30.NJ-2.NJ-S2	型号	WL CA32-41, CA32-42, CA32-43, CA32-44
动作力	OF 最大 (Max)	8.83N	8.83N	8.83N	2.55N	26.67N	26.67N	26.67N	1.47N	动作特性	11.77N
回复力	RF 最小 (Min)	0.49N	0.49N	0.49N	0.1N	8.92N	8.92N	8.92N	—	摆杆反转力: 最大	50° ± 5°
预行程	PT 最大 (Max)	25° ± 5°	25° ± 5°	25° ± 5°	25° ± 5°	1.7mm	1.7mm	1.7mm	40 ± 20mm	摆杆反转预行程	55°
过行程	OT 最小 (Min)	60°	60°	60°	60°	6.4mm	5.6mm	4mm	—	开关预行程: 最小	35°
应差距离	MD 最大 (Max)	16°	16°	16°	16°	1mm	1mm	1mm	—	开关过行程: 最大	—

外观和尺寸 Appearance and Dimension



外观和尺寸 Appearance and Dimension

