

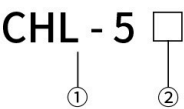


特点 Features

- 引动器种类多，方便使用
- 使配线更加简易的导管设计
- 金属外壳，高机械强度
- 内藏触点座有双簧片设计，机械寿命长
- Various actuators for different applications
- Conduit design for convenient cabling
- Metal shell with high mechanical strength
- Built-in contact box has double-spring and long mechanical life



选型说明 Model Designation



序号 No	项目 Item	代号 Code	说明 Description
①	产品系列 Product series	CHL-5	设计代号 Design code
②	头部结构 Head structure	000	滚轮摆杆型 Roller swing rod type
		030	可调摆杆滚轮型 Adjustable swing rod roller type
		050	可调棒式摆杆型 Adjustable rod swing rod type
		100	密封柱塞型 Seal plunger type
		200	密封滚轮柱塞型 Seal roller plunger type
		220	密封竖向滚轮柱塞型 Seal vertical roller plunger type
		300	盘簧型 Coil spring type
		330	触须型 Palp type
		381	盘簧型 Coil spring type
		391	橡胶滚轮可调摆杆型 Rubber roller adjustable swing rod type

特性 Characteristics

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 Electical: 30 operations/min
接触电阻 Contact resistance	25mΩ 以下 (初期) 25mΩmax. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 以下) 100MΩ min. (at 500VDC)
最小使用负载 Minimum working load	DC24V 10mA 以上 Min DC24V 10mA
额定绝缘电压UI Rated insulation voltage	380V
额定冲击耐受电压Uimp Rated impulse withstand voltage	2.5kV
约定自由空气发热电流Ith Convention free air heating current	10A
电介强度 Dielectric strength	非连续端子间1000VAC, 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1500VAC, 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1500VAC, 50/60Hz持续1分钟 1500VAC, 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' S) 误动作耐久 :300m/Sec ² (约 30G' S) Mechanical durable: 1, 000m/Sec ² (about 100G' S) Malfunction: 300m/Sec ² (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	30万次以上(AC250V、6A、阻性负载) More than 300,000 times (AC250V, 6A, resistive load)
防水等级 Protection level	IP65

额定值 Ratings

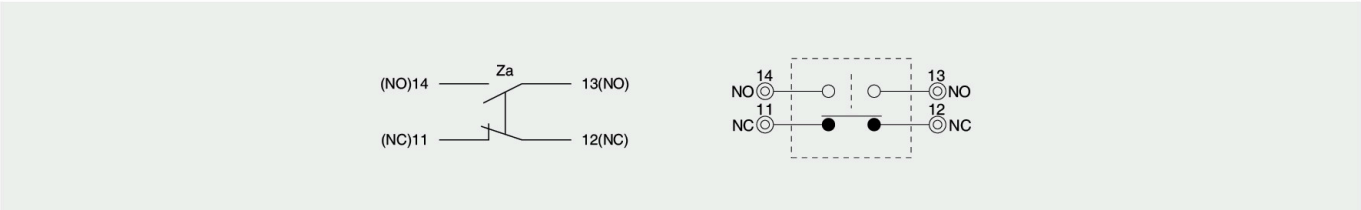
额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
AC125	5		1.5	0.7	3		2	1
AC250	5		1	0.5	3		1.5	0.8
DC12	5		3		4		3	
DC24	5		3		4		3	
DC125	0.4	0.4	-		-		-	
DC250	0.2	0.2	-		-		-	

浪涌电流 Surge current	NC	Max. 24A
	NO	Max. 12A

- 注意事项:
- 1. 左侧提到的数值代表稳定电流。
 - 2. 感性负载是指在交流条件下功率因数为0.4, 或在直流条件下时间常数低于7ms的负载。
 - 3. 灯负载指的是有10倍浪涌电流的负载。
 - 4. 电动机负载是指负载有6倍浪涌电流的情况。

- NOTES:
- 1.The figures mentioned initially denote the consistent current levels.
 - 2.The term 'inductive load' applies to loads where the power factor is 0.4 in AC conditions or when the time constant is less than 7ms for DC.
 - 3.Lamp load' is used to describe loads that experience surge currents up to 10 times their normal rate.
 - 4.Motor load' indicates loads that undergo up to 6 times their regular surge current.

接点型式 Contact Form



国际认证规格 International Certification Specifications

认证规格 Certification specifications	规格 Specifications	文件No. Document
CCC	GB/T 14048.5	请咨询昌得代表处 Please consult the CNTD Representative Office
CE	EN 60947-5-1	

安全规格认证额定值 Safety Specification Certification Rating

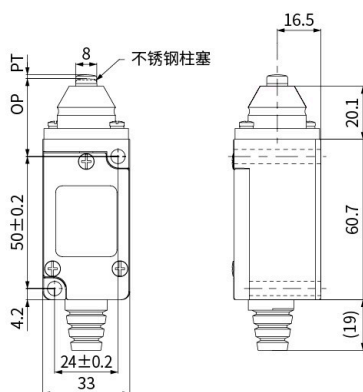
CCC(GB/T 14048.5)

类型与额定值 Type and Rating
AC-15 6A/250V
DC-13 0.3A/220V

外观和尺寸 Appearance and Dimension

CHL-5100

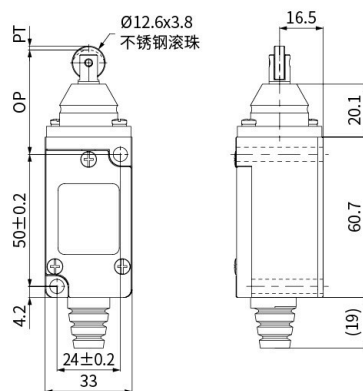
密封柱塞型
Seal plunger type



动作特性 Operating Characteristics	CHL-5100
动作力 OF (最大Max.)	8.8N
回复力 RF (最小Min.)	1.47N
预行程 PT (最大Max.)	1.8mm
过行程 OT (最小Min.)	4.0mm
回差MD (最大Max.)	1.2mm
动作位置OP	40±0.8mm

CHL-5200

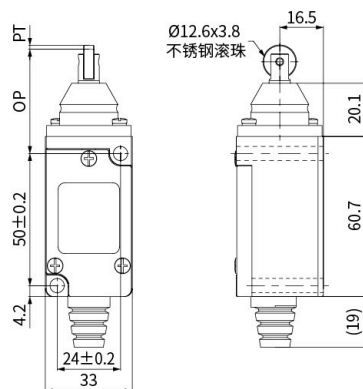
密封滚轮柱塞型
Seal roller plunger type



动作特性 Operating Characteristics	CHL-5200
动作力 OF (最大Max.)	8.8N
回复力 RF (最小Min.)	1.47N
预行程 PT (最大Max.)	1.8mm
过行程 OT (最小Min.)	4.0mm
回差MD (最大Max.)	1.2mm
动作位置OP	40±0.8mm

CHL-5220

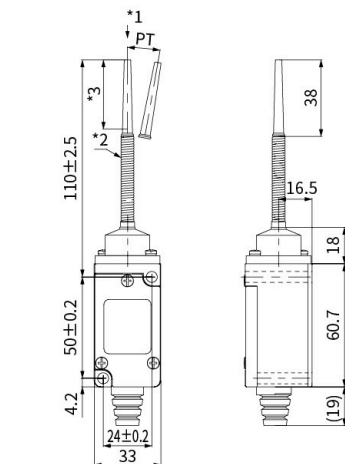
密封竖向滚轮
柱塞型
Seal vertical roller plunger type



动作特性 Operating Characteristics	CHL-5220
动作力 OF (最大Max.)	8.8N
回复力 RF (最小Min.)	1.47N
预行程 PT (最大Max.)	1.8mm
过行程 OT (最小Min.)	4.0mm
回差MD (最大Max.)	1.2mm
动作位置OP	40±0.8mm

外观和尺寸 Appearance and Dimension

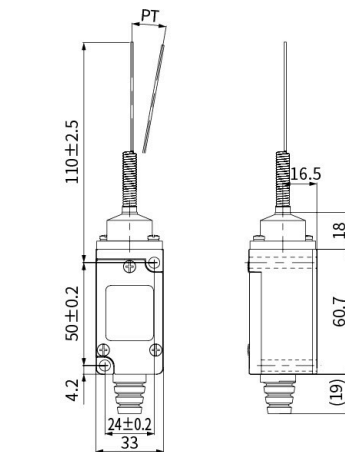
CHL-5300
盘簧型
Coil spring type



*1.除了轴芯方向(↓),钢丝可在任意方向运动;
*2.不锈钢钢丝盘簧;
*3.操作体的使用范围为从弹簧前端到弹簧全长的1/3以内。

动作特性 Operating Characteristics	CHL-5300
动作力 OF (最大Max.)	1.47N
预行程 PT (最大Max.)	15±5°
回差MD (最大Max.)	10±2°

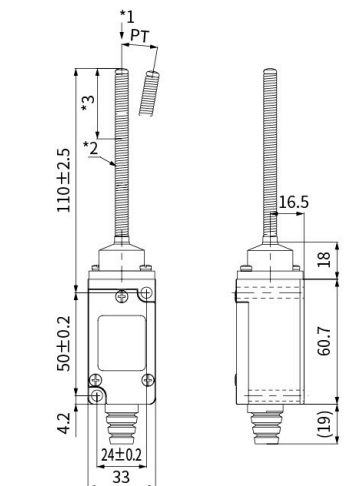
CHL-5330
触须型
Palp type



*1.除了轴芯方向(↓),钢丝可在任意方向运动;
*2.不锈钢钢丝盘簧;
*3.操作体的使用范围为从弹簧前端到弹簧全长的1/3以内。

动作特性 Operating Characteristics	CHL-5330
动作力 OF (最大Max.)	1.47N
预行程 PT (最大Max.)	15±5°
回差MD (最大Max.)	10±2°

CHL-5381
盘簧型
Coil spring type



*1.除了轴芯方向(↓),钢丝可在任意方向运动;
*2.不锈钢钢丝盘簧;
*3.操作体的使用范围为从弹簧前端到弹簧全长的1/3以内。

动作特性 Operating Characteristics	CHL-5381
动作力 OF (最大Max.)	1.47N
预行程 PT (最大Max.)	15±5°
回差MD (最大Max.)	10±2°

使用注意事项 Using Precautions

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- 要求极高可靠性的应用场合，包括核能、燃气、电力等要求长期稳定运行的系统。
- 要求极高安全性的应用场合，涉及人身安全与财产的情况。
- 苛刻条件、严酷环境的应用场合，包括室外、存在化学污染、电磁、振动或冲击影响的环境。
- 有火灾或爆炸风险的应用场合，包括存在易燃易爆性气体、强酸强碱化学品等物质的环境。
- 涉及军工用途、航天航空项目的应用场合。

The company's products are designed and produced as industrial products, in strict compliance with industrial product standards. We expressly declare that, unless specifically designed and expressly confirmed by us in writing, our products are not intended for the following applications:

- Applications that require high reliability, including nuclear, gas, electric and other systems that require long-term stable operation.
- Applications requiring very high security, situations involving personal safety and property.
- Applications in harsh conditions, harsh environments, including outdoor, chemical contamination, electromagnetic, vibration or shock effects.
- Applications where there is a risk of fire or explosion, including environments where flammable and explosive gases, strong acids and alkali chemicals are present.
- Applications involving military use and aerospace projects.