

ISO9001:2000



TEZUO ^{特佐®}
特佐电器有限公司
TEZUO ELECTRIC CO.,LTD.

地址:乐清市象阳镇东岙工业区

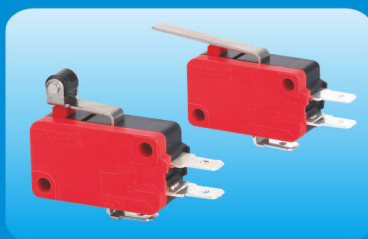
总机:0086-577-62622369 62759778

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网址: [Http://www.tezuodq.com](http://www.tezuodq.com)

诚招全国代理商:

TEZUO 特佐®



行程·微动
專業製造商



特佐电器有限公司
TEZUO ELECTRIC CO.,LTD.

企业简介

乐清市特佐电器有限公司是专业生产行程开关、微动开关、小型限位开关等系列产品的企业，已有十几年的发展历史。本公司工艺成熟、设备先进，强大的技术力量使公司具备产品的研发、设计和生产的整体实力，在行业领域中具有明显的超前性和专业性。质量和技术性能可完全替代同类进口产品，在电力电气、汽车电器、家用电器、工控、电子、机械设备等行业经常可看到我们的产品。

公司本着一切工作以顾客为中心，推行品牌战略，突出服务理念，追求顾客信任度的不断提高。我们兢兢业业，依托中国入世的天时、坐落电器之都的地利、拥有众多优秀客户的人和，目前国内外数百家企业建立了长期的供货关系，我们深感荣幸和责任重大。

您的满意是我们不断前进的动力！

YUEQING TEZUO Electrical Appliances CO.,Ltd was established in more than ten years ago. It's specially engaged in producing and selling a series of products such as sensitive switch, journey switch, mini-Limit switch and so on. The company is an enterprise integrated with design, production and marketing as a whole with its powerful strength, exquisite craftwork, advanced technology and scientific management.

Our products could instead of the similar import products completely, for instance, in the field of Electric power and Electricity, house Electricity, car Electricity, Electron, Mechanical device etc.

Implementing guideline~Base on customer, Take science & technology as power, Regard quality as life, Subsist upon keeping credit, the company absorbs senior technicians continuously, introduces latest production and checkout equipments, and carries out brand strategy and sustainable development plan.

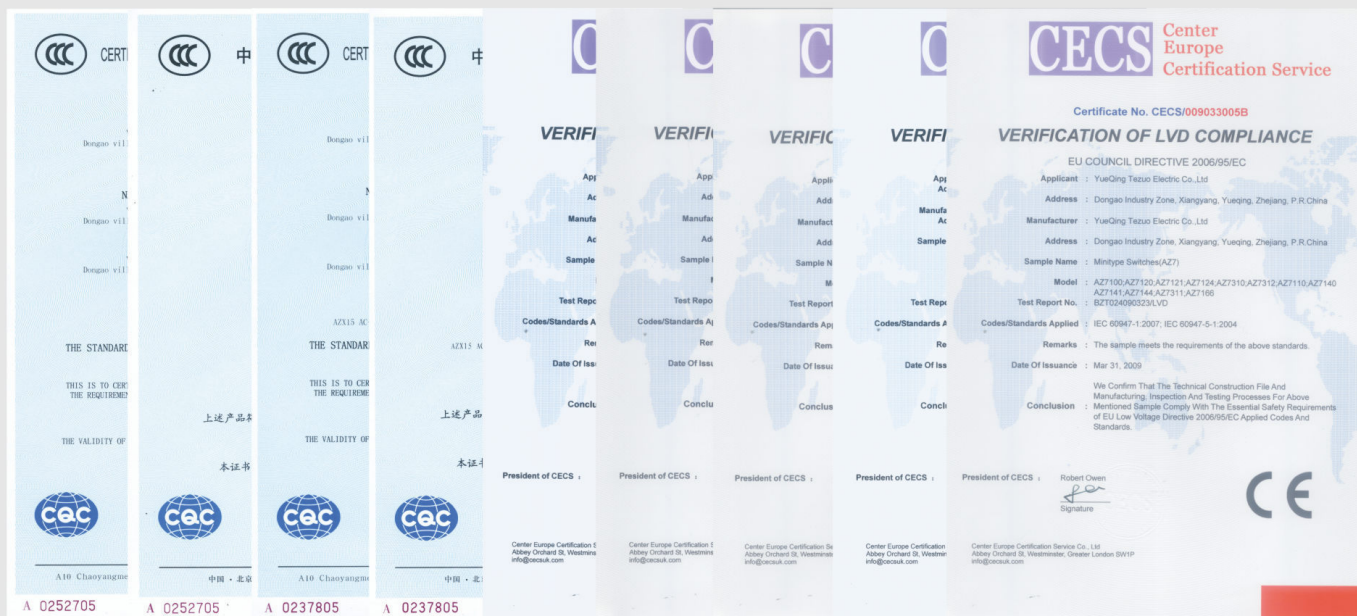
With principle "subsist upon quality, create brand on credit", the company sincerely welcomes universal clients to cooperate, to develop hand in hand.

我们卓越，因为专业；我们超越，因为创新

这就是我们事业的**方向**——

Certificate Quality

资质证书



目录

Catalogue

TEZUO[®] 特佐电器



AZX15G系列微动开关 Micro Switches

特征 Characteristics

- 引动器种类多，且有动作位置可调整之设计 (如:AZX15GW-B)
- 高开闭容量(15A)
- 高精度
- 广泛操作速度范围
- AZX15G系列每一型式具有焊接端子,螺丝端子与快速端子可供选择
- 型号后面加A则为焊接端子，加C则为快速端子，空白则为螺丝端子
- Leading to move machine has many categories, action position is adjustable(such as AZX15GW-B)
- High switch on and off capacity(15A)
- High accuracy
- Wide range of operation speed
- Every model of AZX15G series has weld end,screw and quick speed end are selective.
- The model with A is weld end,with C is quick speed end,black is screw end.

额定值 Rated number

额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry				突入电流(A) Current	
	电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	15		3	1.5	15		5	2.5	30 以下	15 以下
250VAC	15		2.5	1.25	15		3	1.5		
500VAC	3		1.5	0.75	2.5		1.5	0.75		
8VDC	15		3	1.5	15		5	2.5		
14VDC	15		3	1.5	10		5	2.5		
30VDC	6(2)		3	1.5	5		5	2.5		
125VDC	0.4		0.4	0.4	0.05		0.05	0.05		
250VDC	0.2		0.2	0.2	0.03		0.03	0.03		

接点型式 Contact way



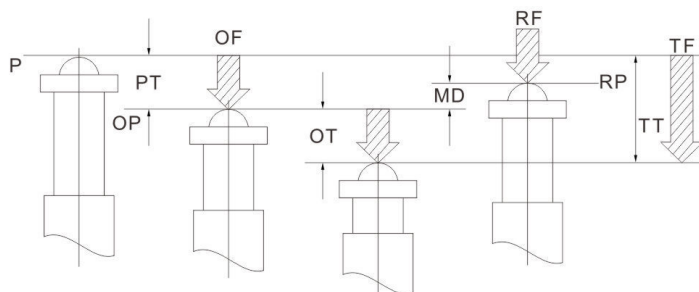
特性 Characteristics

操作速度 Operation speed	0.01mm至1mm/S (锁住塞型) 0.01mm to 1mm/Sec
动作频率 Action frequency	机械:240次/分 电气:20次/分 Mechanically:240 times/minute Electrically:20 times/Minute
接点电阻 Contact resistance	15MΩ 以下 (初期) Under 15mΩ (initial)
绝缘电阻 Insulation resistance	100MΩ 以上 (在500VDC以下) 100mΩ above (under 500VDC)
耐电压 Bearing voltage	非连续端子间1,000VAC,50/60Hz持续1分钟 载电流与接地间2,000VAC,50/60Hz持续1分钟 Non-contact end:1,000VAC,50/60Hz for one minute Current parts and noncurrent parts :2,000VAC,50/60Hz for one minute
振动 Vibration	(*10至20Hz):1.5mm 变振幅误动作耐久:10至55Hz (*10 to 20Hz):1.5mm pairs swing action:10 to 55Hz,1.5mm pairs swing
冲击 Hitting	机械耐久:1,000m/Sec ² (约100G'S) 误动作耐久:300m/Sec ² (约30G'S) Machine:1,000m/Sec ² (about 100G'S) Action:300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	泛用型:-25℃至+80℃ 密封型:-15℃至+80℃ Common type:-25℃ to +80℃ Sealed type:-15℃ to +80℃
湿度 Humidity	泛用型:85% RH 以上 密封型:95% RH Common type:85% RH above Sealed type:95% RH
使用寿命 Serve life	机械:20,000,000次以上(在额定OT值下) 电气:500,000次以上 Mechanically:20,000,000 times above(at rated ot) Electrically:500,000 times above
重量 Weight	约22至58g About 22 to 58g

动作特性 Action Characteristics

型号 Models	AZX15G-B	AZX15GL-B	AZX15GL2-B	AZX15GS-B	AZX15GD-B	AZX15GQ-B	AZX15GQ22-B	AZX15GQ21-B	AZX15GW-B	AZX15GW21-B	AZX15GW2-B	AZX15GW22-B	AZX15HW52-B	AZX15HW2277-B
OF 最大(Max.)	350g	300g	300g	350g	350g	350g	350g	350g	70g	100g	160g	160g	10g	160g
RF 最小(Min.)	114g	50g	50g	114g	114g	114g	114g	114g	14g	28g	22g	42g	3g	42g
PT 最大(Max.)	0.4mm	4mm	4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm	10mm	5mm	7.1mm	2.7mm	20mm	2.7mm
OT 最小(Min.)	0.13mm	1.6mm	1.6mm	1.6mm	1.6mm	5.5mm	3.58mm	3.58mm	5.6mm	2mm	4mm	2.4mm	5.6mm	2.4mm
MD 最大(Max.)	0.05mm	1.3mm	1.3mm	0.05mm	0.05mm	0.05mm	0.05mm	0.05mm	1.27mm	1mm	1.02mm	0.5mm	3mm	0.5mm
FP 最大(Max.)		20.6mm	31.8mm						28.2mm	24.8mm	36.5mm	32.5mm		43.6mm
OP(mm)	15.9±0.4	17.4±0.8	28.6±0.8	28.2±0.5	21.5±0.5	21.8±0.5	33.4±1.2	33.4±1.2	19±0.8	19±0.4	30.2±0.8	30.2±0.4	19±0.4	43.1±0.8

动作特性 Action characteristics



动作Action

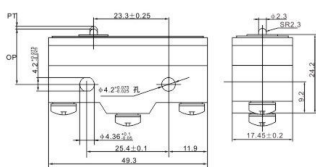
回复 Return

OF	动作所需之力	Action force
RF	回复力	Return force
TF	整个移动所需之力	TF: Total Force
FP	自由位置	Free position
OP	动作位置	Action position
RP	回复位置	Reply position
TTP	整个移动之位置	Total transfer position
PT	至动作为止之移动	To the action transfer
OT	动作后之移动	Move after operating
MD	距差	Middle distance
TT	整个移动	Total transfer

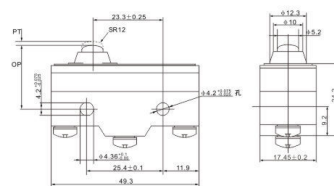
外观和尺寸 External appearance size



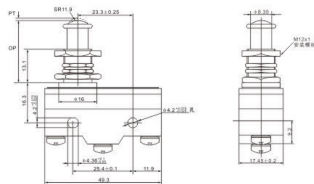
- 销按钮型
AZX15G-B



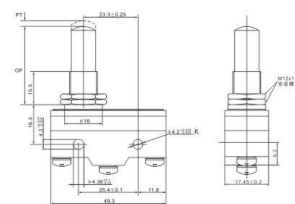
○ 弹簧短按钮型
AZX15GD-B



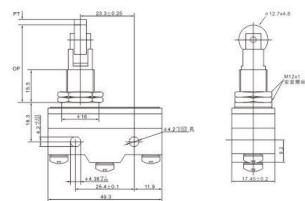
○ 面板安装按钮型
AZX15GQ-B



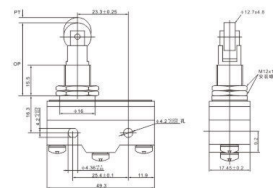
○ 弹簧长按钮型
AZX15GQ8-B



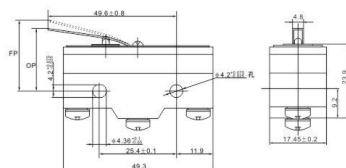
○ 面板安装滚轮按钮型
AZX15GQ21-B



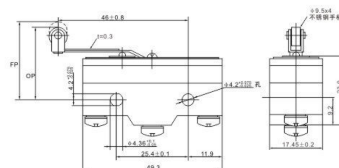
○ 面板安装滚轮押扣型
AZX15GQ22-B



○ 簧片型
AZX15GL-B



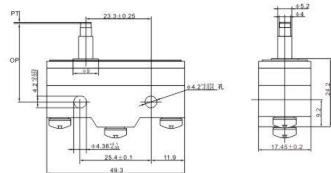
○ 滚轮簧片型
AZX15GL2-B



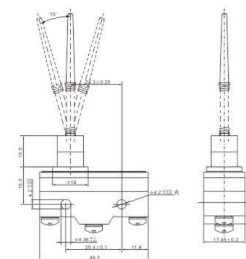
AZX15G系列微动开关 Series Micro Switches

TEZUO 特佐® 特佐电器

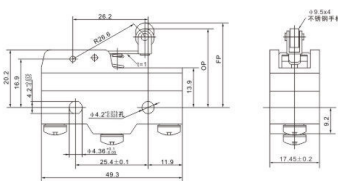
○ 弹簧细按钮型
AZX15GS-B



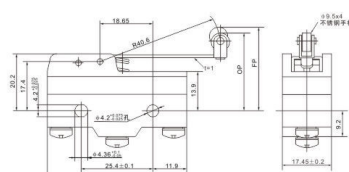
○ 弹簧线圈树脂型
AZX15GNJ-B



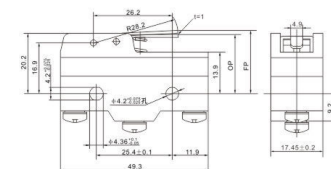
○ 枢轴滚轮短手柄型
AZX15GW22-B



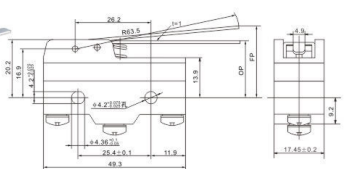
○ 枢轴滚轮手柄型
AZX15GW2-B



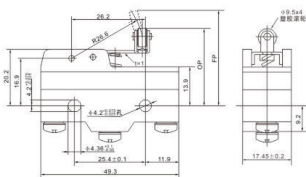
○ 枢轴短手柄型
AZX15GW21-B



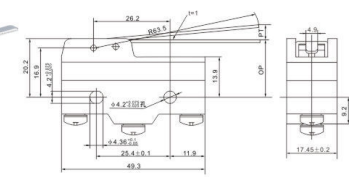
○ 枢轴手柄按钮型
AZX15GW-B



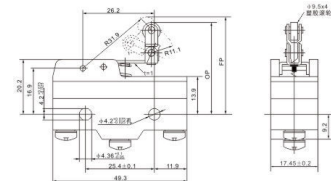
○ 枢轴交叉滚轴短手柄型
AZX15GW49-B
AZX15GW54-B(柄长:48.7)



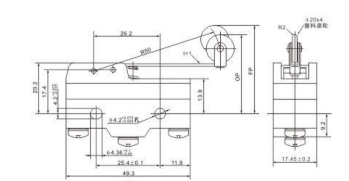
○ 微量枢轴手柄型
AZX15GW4-B



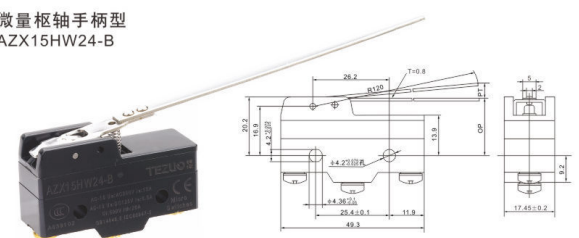
○ 单方向枢轴滚轮短手柄型
AZX15GW2277-B



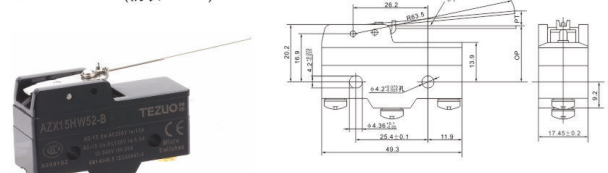
○ 枢轴滚轮手柄型
AZX15GW25-B



○ 微量枢轴手柄型
AZX15HW24-B



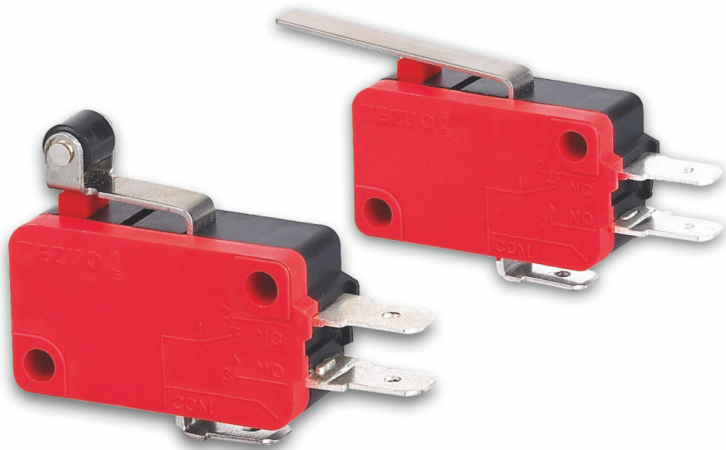
○ 微量枢轴缆线手柄型
AZX15HW52-B
AZX15HW78-B(柄长:R110)



AV系列微动开关
Micro Switches

特征 Characteristics

- 从10A到21A，种类丰富、式样齐全
- 符合SNAP Action 组织之寿命长操作作用开关要求
- 备有热可塑性和热硬化性两种壳体
- 可使用于门开闭时电流遮断等用途上
- Range from 10A to 21A, abundant of kinds styles are all in readiness.
- Conform to the demands which long-time Operation of SNAP Action Organize.
- Has two shells with the characters of plasticity and hot-hardening.
- Can be used to the way of shut off the electric current when the door open or closed.



额定值 Rated number

规格 Specification	额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry			
		电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry	
		NC	NO	NC	NO	NC	NO	NC	NO
21A	AC 250	21	3	12	7				
	DC 8	21	5	12	7				
	30	14	5	12	5				
	125	0.6	0.1	0.6	0.1				
	250	0.3	0.05	0.3	0.05				
16A	AC 250	16	2	10	3				
	DC 8	16	4	10	6				
	30	10	4	10	4				
	125	0.6	0.1	0.6	0.1				
	250	0.3	0.05	0.3	0.05				
15A	AC 250	15	2	10	3				
	DC 8	15	4	10	6				
	30	10	4	10	4				
	125	0.6	0.1	0.6	0.1				
	250	0.3	0.05	0.3	0.05				
11A	AC 250	11	1.5	6	2				
	DC 8	11	3	6	3				
	30	6	3	6	3				
	125	0.6	0.1	0.6	0.1				
	250	0.3	0.05	0.3	0.05				
10A	AC 250	10	1.5	6	2				
	DC 8	10	3	6	3				
	30	6	3	6	3				
	125	0.6	0.1	0.6	0.1				
	250	0.3	0.05	0.3	0.05				

安装孔加工尺寸 The Processing Installment hole Methods

安装时请用M3螺丝及杯口垫圈,弹簧垫圈牢牢地安装,锁紧扭力请在0.39~0.59N.m{4~6kgf.cm}

Please use the M3 Screw and Cup mouth Gasket and the spring Gasket should be Installed firmly, and please lock tightly.at the range from 0.39~0.59N.m{4~6kgf.cm}



2-φ3.1安装孔
或M3螺丝孔

特性 Characteristics

操作速度 Operation speed	0.1mm至1m/S(按钮型) 0.1mm to 1m/Sec
动作频率 Action frequency	机械:600次/分 电气:60次/分 Mechanically:600 times/minute Electrically:60 times/Minute
接点电阻 Contact resistance	15MΩ以下(初期) Under 15mΩ(initial)
绝缘电阻 Insulation resistance	100MΩ以上(在500VDC) 100mΩ above (at 500VDC)
耐电压 Bearing voltage	非连续端子间1,000VAC,50/60Hz持续1分钟 载电流与无载电流零件间与端子与接地之间1,500VAC,50/60Hz持续1分钟 Non-contact end:1,000VAC,50/60Hz for one minute Current parts and noncurrent parts and end and connect position :1,500VAC,50/60Hz for one minute
振动 Vibration	10至55HZ 复振幅误动作:1.5mm 10 to 55HZ:1.5mm pairs swing action
冲击 Hitting	机械耐久: 400m/Sec ² (约40G ² S) 误动作耐久: 100m/Sec ² (约10G ² S) Machine:400m/Sec ² (about 40G ² S) Action:100m/Sec ² (about 10G ² S)
周围温度 Ambient temperature	-25℃至+80℃ -25℃ to +80℃
湿度 Humidity	85% RH 以下 Below 85% RH
使用寿命 Serve life	机械:5,000,000次以上(在额定OT值下) 电气:100,000次以上 Mechanically:5,000,000 times above(at rated ot) Electrically:100,000 times above
重量 Weight	约6.2g(按钮型) About 6.2g

注意事项 Matters needing attention

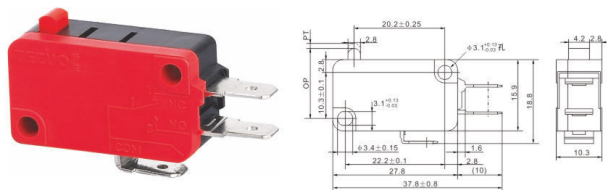
- 开关请注意不要掉落,属于低负荷量专用开关,恐造成内部机构的破损。
- 附专动轴规格者,安装时请勿将传动轴本体重量加在开关的方向。
- 高温下请勿使用,外壳使用热可塑性树脂做成,在高温下可能会使其变形损坏。

- Please do not fall when opened or closed,for it belong to low load switch, Feared that causes the Damages of inside.
- Attaches the Special moving axis,when it is Installed,forbid putting the weight in Special moving axis.
- Do not use when the temperature is high.

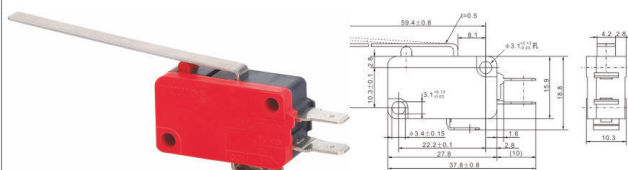
AV系列微动开关 Series Micro Switches

TEZUO 特佐 特佐电器

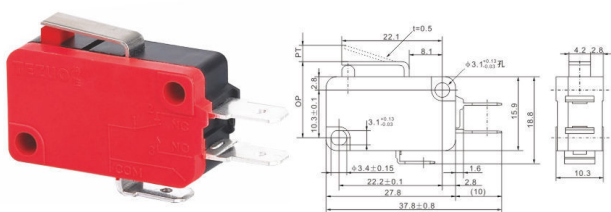
按钮型
AV-16-1C25



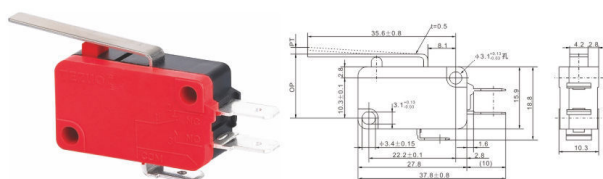
枢轴长手柄型
AV-163-1C25



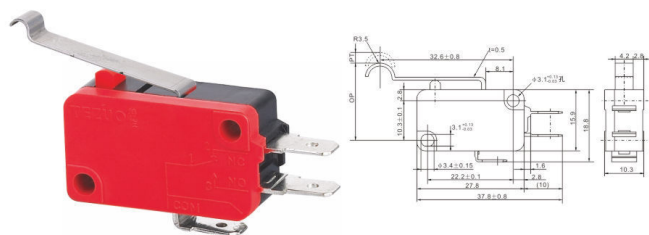
枢轴短手柄型
AV-161-1C25



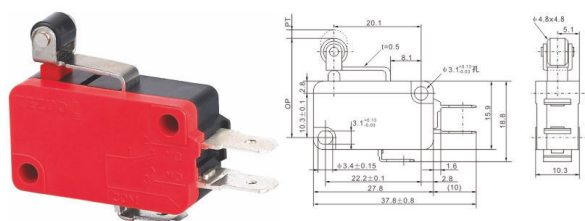
枢轴手柄型
AV-162-1C25



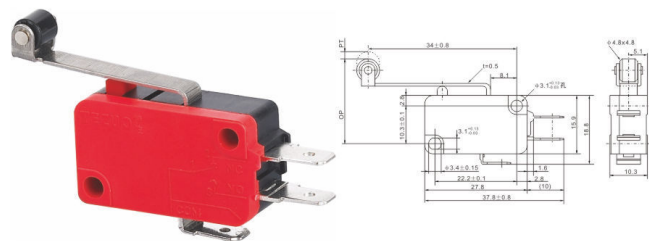
枢轴R型手柄型
AV-164-1C25



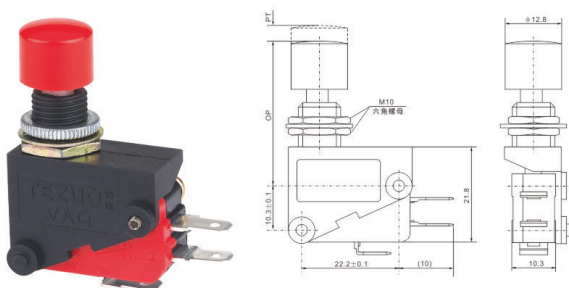
枢轴滚轮短手柄型
AV-165-1C25



枢轴滚轮长手柄型
AV-166-1C25



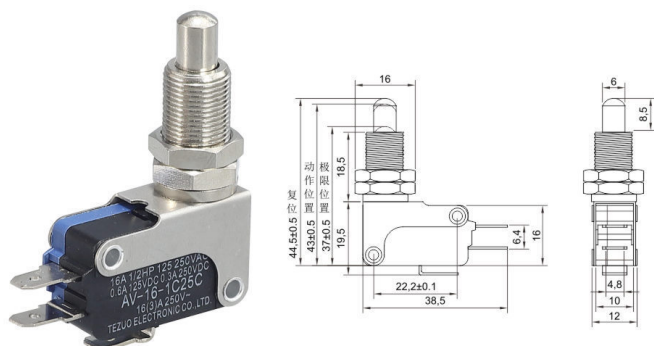
面板安装推压塞柱型
AVAQ



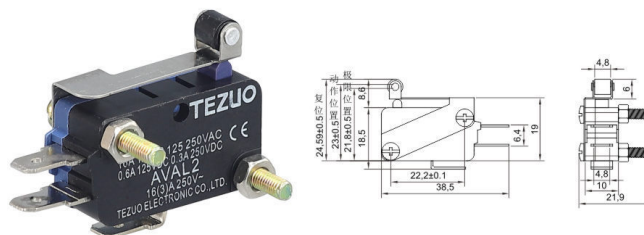
AV系列微动开关 Series Micro Switches

TEZUO 特佐电器

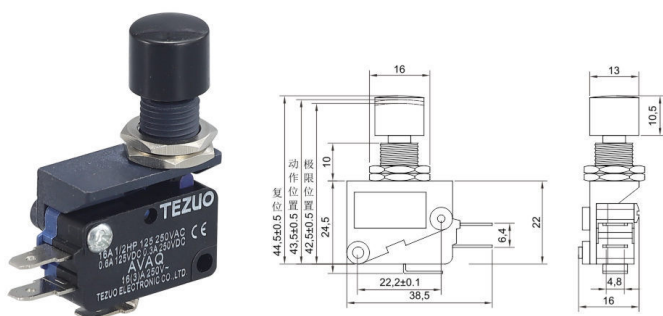
按钮型
AV-16-1CQ



枢轴滚轮短手柄型
AVAL2



按钮型
AVAQ



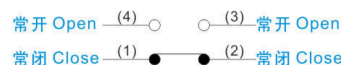


AZX8系列行程开关 Limit Switches

特征 Characteristics

- 双回路型限位开关
- 结构坚固, 由锌合金及强化塑胶组成
- 体积小, 可防水、防油
- 内藏微动开关有双簧片机构, 机械寿命更长
- 具较大之O T动作
- 容易配线之导管设计
- 引动器种类多, 方便使用
- Double way switch
- Strong structure, made of zinc metal alloy and plastics
- Small size, water and oil resistant
- Double spring inner switch, longer machine life
- Bigger of action
- Easy to contact line
- Many kinds of leading-to-move maching, easily use

接点型式 Contact way



额定值 Rated number

额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry			
	电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC 250VAC 500VAC	5 5	5 5	1.5 1	0.7 0.5	3 3	3 3	2 1.5	1 0.8
8VDC 14VDC 30VDC 125VDC 250VDC	5 5 5 0.4 0.2	5 5 5 0.4 0.2	3 3 3	3 3 3	5 4 4 4	4 4 4	3 3 3	3 3 3
突入电流 Current	N.C.: 24A以下, N.O.: 12A以下 N.C.: at 24 A, N.O.: at 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之10倍。马达负载之突入电流为稳定状态电流之6倍。

Remarks: 1. Electrical carry: power: Under 0.4 (ac), time constant under 7 msec (dc).

2. Current Bulb carry is 10 times as than in stable condition. Current motor carry is 6 times as than in stable conditions.

特性 Characteristics

操作速度 Operation speed	0.5mm至50cm/sec (锁住塞型) 0.5mm-50cm/sec
动作频率 Action frequency	机械: 120次/分 电气: 30次/分 Mechanically: 120 times/minute Electrically: 30 times/Minute
接点电阻 Contact resistance	25M Ω (mm) (初期) 25m Ω (mm) (initial)
绝缘电阻 Insulation resistance	100M Ω 以上 (在500VDC) 100m Ω above (at 500VDC)
耐电压 Bearing voltage	非连续端子间: 1,000VAC, 50/60Hz 持续1分钟 载电流与无载电流零件间: 1,500VAC, 50/60Hz 持续1分钟 Noncontact end: 1,000VAC, 50/60Hz for one minute Current parts and noncurrent parts: 1,500VAC, 50/60Hz for one minute
振动 Vibration	10至55Hz, 1.5mm双振幅 10-55Hz, 1.5mm pairs swing
冲击 Hitting	机械耐久: 1,000m/Sec ² (约100G'S) 误动作耐久: 300m/Sec ² (约30G'S) Machine: 1,000m/Sec ² (about 100G'S) Action: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时: -5 至 +65℃
湿度 Humidity	95%RH以上 95% RH above
使用寿命 Serve life	机械: 10,000,000次以上 电气: 500,000次以上 Mechanically: 10,000,000 times above Electrically: 500,000 times above
重量 Weight	约130 至 190g About 130 to 190g
防护等级 Protection structure	IEC 规格: IP65 IEC specification: IP65

动作特性 Action Characteristics

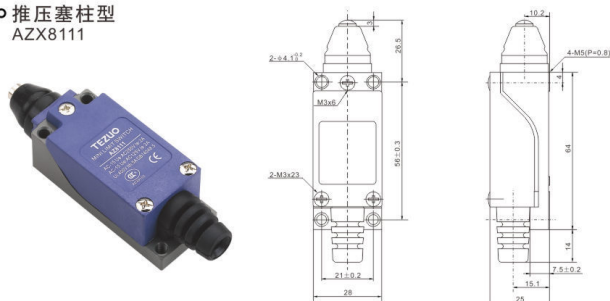
型号 Models	AZX-8104	AZX-8107	AZX-8108	AZX-8111	AZX-8112/8122	AZX-8166/8167/8168/8169
OF 最大(Max.)	750g	750g	750g	900g	900g	150g
RF 最小(Min.)	100g	100g	100g	150g	150g	-
PT 最大(Max.)	20°	20°	20°	1.5mm	1.5mm	30mm
OT 最小(Min.)	50°	50°	50°	4mm	4mm	-
MD 最大(Max.)	12°	12°	12°	1mm	1mm	-
OP	-	-	-	26 ± 0.8mm	37 ± 0.8mm	-

AZX8系列行程开关 Series Limit Switches

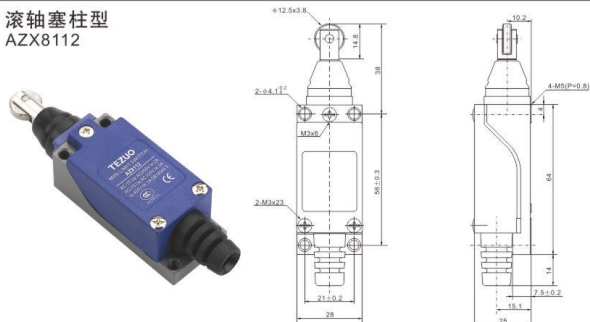
TEZUO 特佐 特佐电器

外观和尺寸 External appearance size

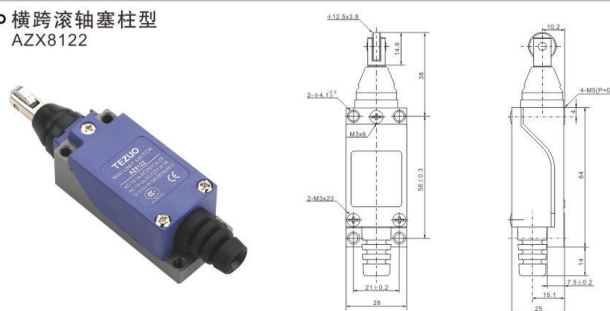
○ 推压塞柱型
AZX8111



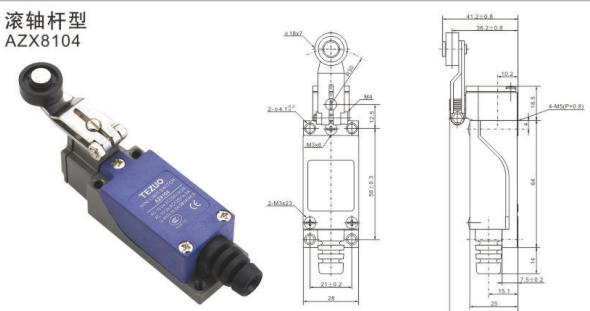
○ 滚轴塞柱型
AZX8112



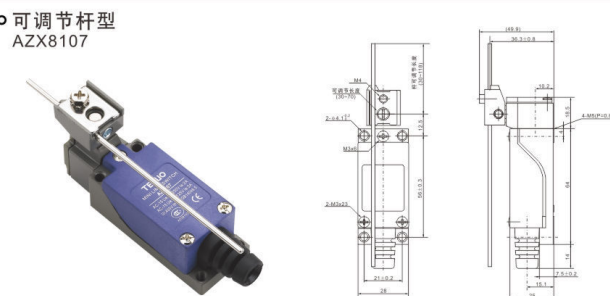
○ 横跨滚轴塞柱型
AZX8122



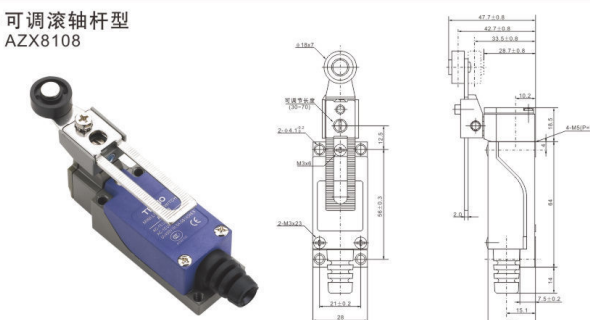
○ 滚轴杆型
AZX8104



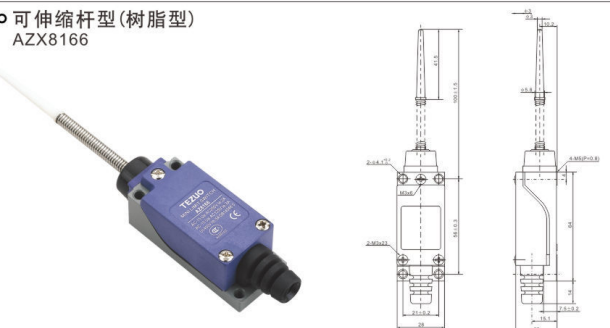
○ 可调节杆型
AZX8107



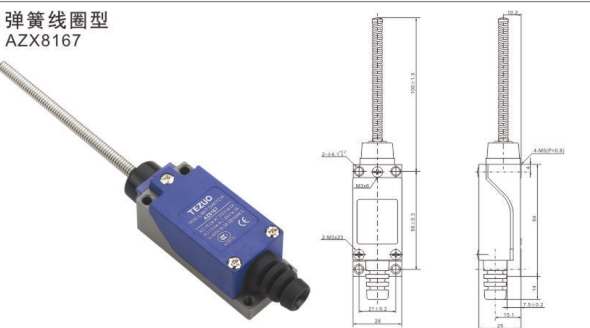
○ 可调滚轴杆型
AZX8108



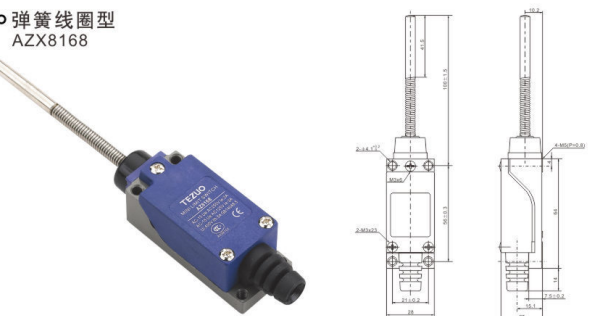
○ 可伸缩杆型(树脂型)
AZX8166



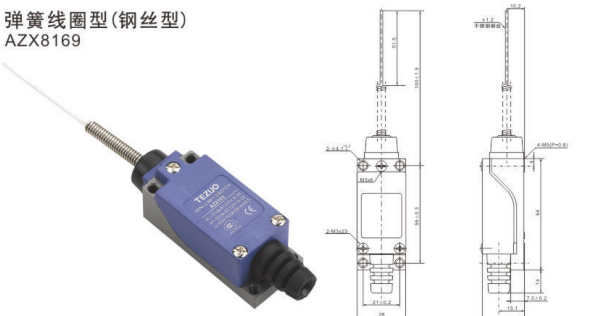
○ 弹簧线圈型
AZX8167



○ 弹簧线圈型
AZX8168



○ 弹簧线圈型(钢丝型)
AZX8169

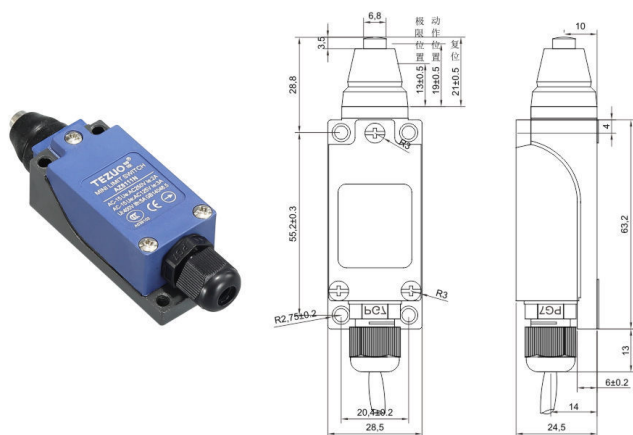


AZX8系列行程开关 Series Limit Switches

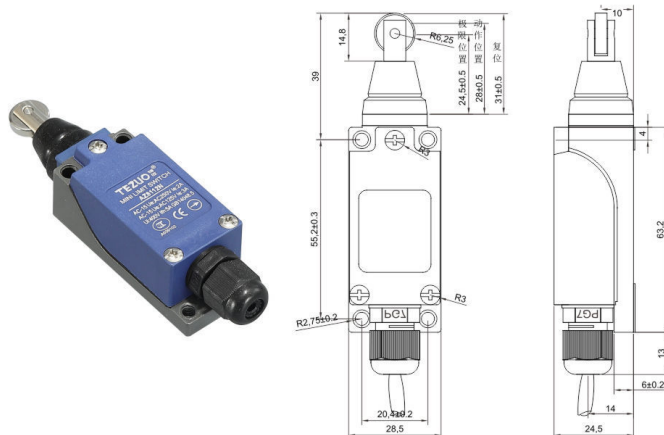
TEZUO 特佐 特佐电器

外观和尺寸 External appearance size

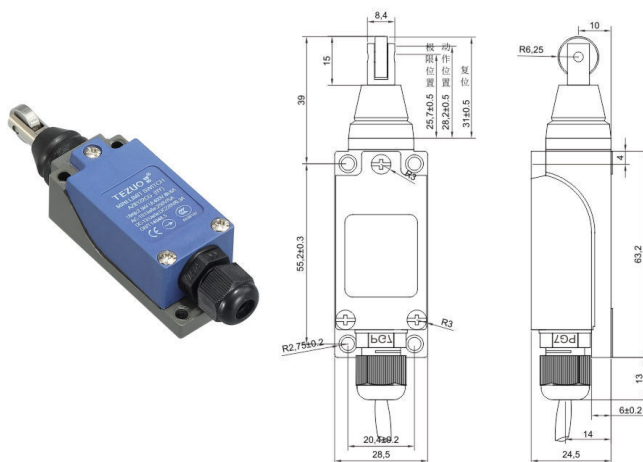
○ 推压塞柱型
AZ8111CG



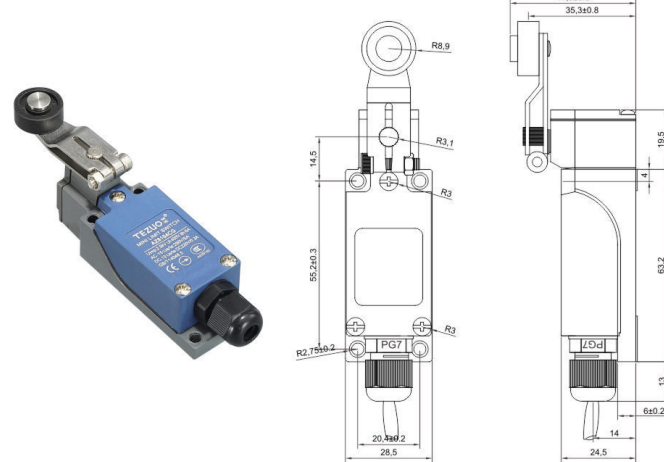
○ 滚轴塞柱型
AZ8112CG



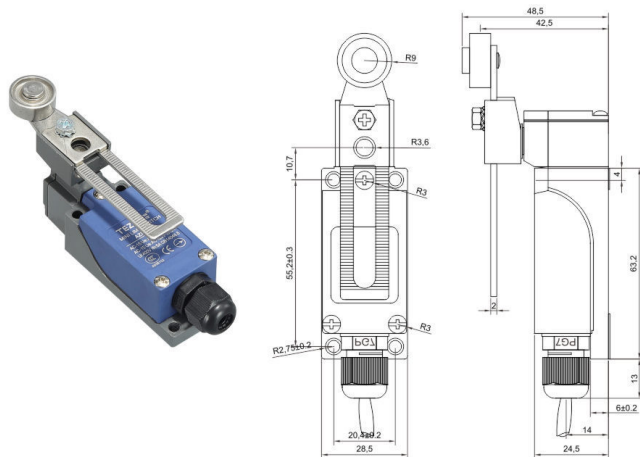
○ 横跨滚轴塞柱型
AZ8122CG



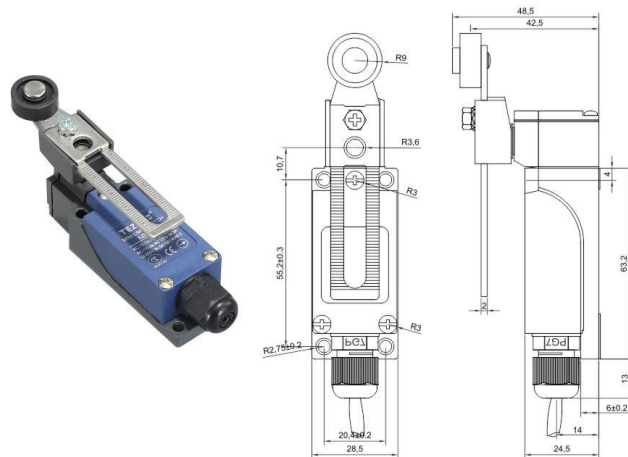
○ 滚轴杆型
AZ8104CG



○ 可调滚轴杆型
AZ8108CG不锈钢轮



○ 可调滚轴杆型
AZ8108CG

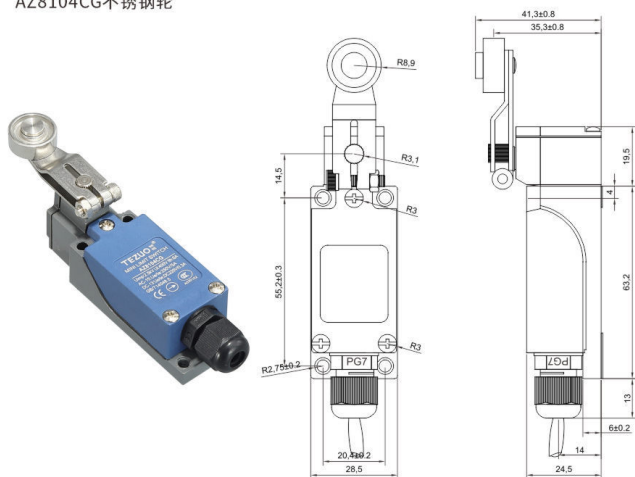


AZX8系列行程开关 Series Limit Switches

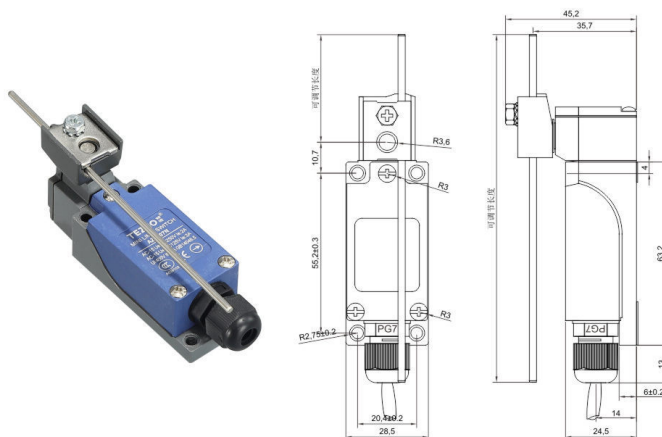
TEZUO 特佐 特佐电器

外观和尺寸 External appearance size

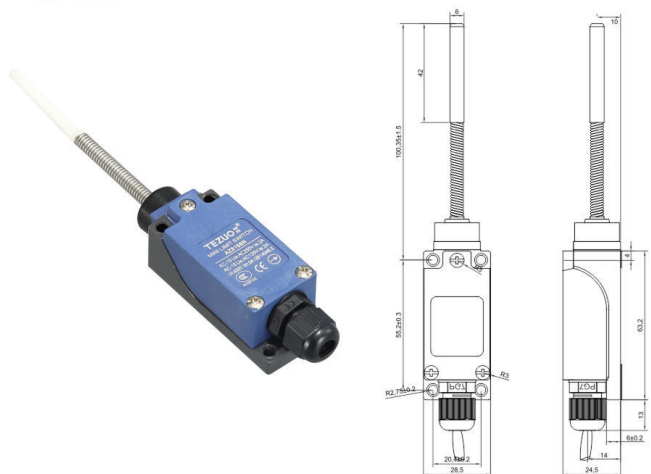
- 滚轴杆型
AZ8104CG 不锈钢轮



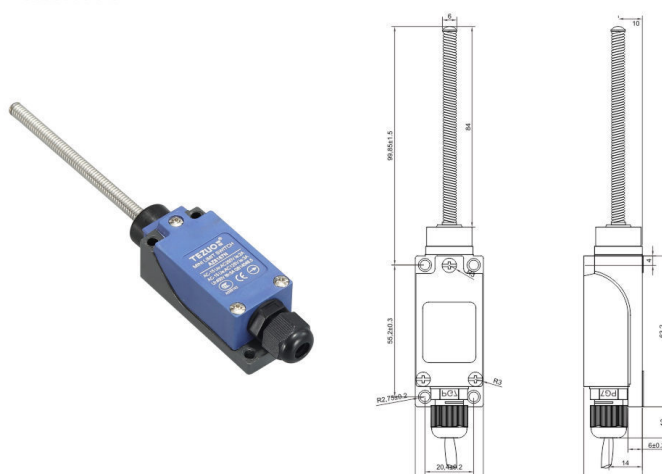
- 可调节杆型
AZ8107CG



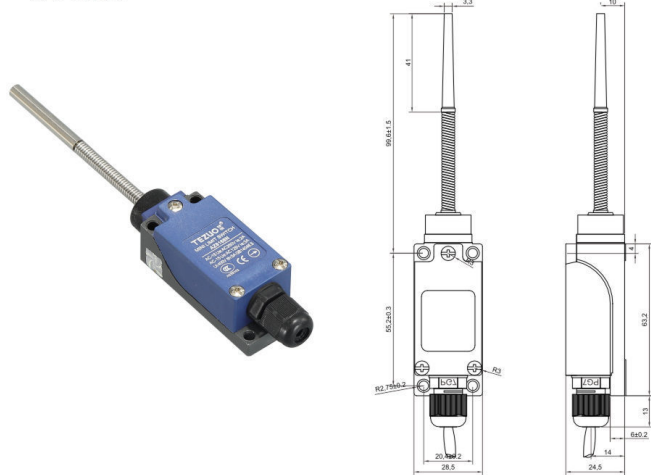
- 可伸缩杆型 (树脂型)
AZ8166CG



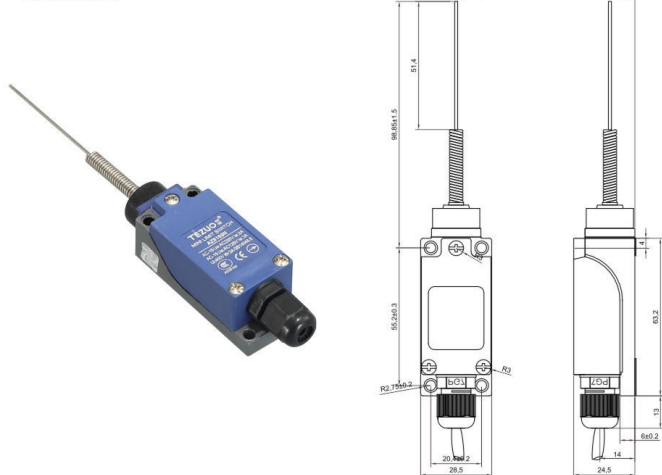
- 弹簧线圈型
AZ8167CG



- 弹簧线圈型
AZ8168CG



- 弹簧线圈型 (钢丝型)
AZ8169CG





AZX7系列小型限动开关 Minitype witches

特征 Characteristics

- 引动器种类多，且有动作位置可调整之设计 (如:AZX7121)
- 外壳包覆强化塑胶、防水、防油，较AZX15G型微动开关有更高的机械强度，耐冲击。
- Leading-move machine has many categories, the action position is adjustable. (Such as AZX7121)
- Outer shell covered with plastics, water and oil resistant. The machine strength is better than AZX15G model switch, bear hitting.

接点型式 Contact way



额定值 Rated number

额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry			
	电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2.5
250VAC	10		2.5	1.25	10		3	1.5
480VAC	3		1.5	0.75	2.5		1.5	0.75
8VDC	10		3	1.5	6		6	5
14VDC	10		3	1.5	6		6	5
30VDC	8		3	1.5	6		5	2.5
125VDC	0.5		0.4	0.4	0.05		0.05	0.05
250VDC	0.25		0.2	0.2	0.03		0.03	0.03

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之10倍。

马达负载之突入电流为稳定状态电流之6倍。

Remarks: 1. Electrical carry: power factor=0.4, time constant= 7 msec.

2. The Bulb carry current is 10 times as than in stable condition. Motor carry current is 6 times as than in stable condition.

特性 Characteristics

操作速度 Operation speed	0.01mm至50cm/S (锁住塞型) 0.01mm to 50cm/Sec
动作频率 Action frequency	120次/分 120 times/minute
接点电阻 Contact resistance	15MΩ以下(初期) Under 15mΩ (initial)
绝缘电阻 Insulation resistance	100MΩ以上(在500VDC以下) 100mΩ above (under 500VDC)
耐电压 Bearing voltage	非连续端子间:1,000VAC,50/60Hz持续1分钟 载电流与无载电流零件间与端子与接地之间:1,500VAC,50/60Hz持续1分钟 Non-contact end:1,000VAC,50/60Hz for one minute Current parts and noncurrent parts and end and connect position :1,500VAC,50/60Hz for one minute
振动 Vibration	误动作耐久: 10至55Hz, 1.5mm双振幅 Action:10 to 55Hz, 1.5mm pairs swing
冲击 Hitting	机械耐久: 1,000m/Sec ² (约100G'S) 误动作耐久: 300m/Sec ² (约30G'S) Machine:1,000m/Sec ² (about 100G'S) Action:300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时:-10 至 +80℃
湿度 Humidity	95%RH 以上 95% RH above
使用寿命 Serve life	机械:10,000,000次以上(在额定OT值下) 电气:500,000次以上 Mechanically:10,000,000 times above(at rated ot) Electrically:500,000 times above
重量 Weight	约60g About 60g
防护等级 Protection structure	IEC 规格:IP65 IEC specification:IP65

动作特性 Action Characteristics

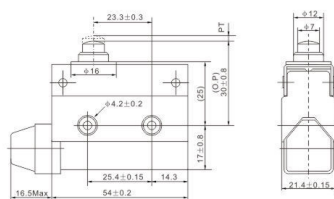
型号 Models	AZX7100	AZX7110	AZX7310	AZX7311	AZX7312	AZX7120	AZX7140	AZX7121	AZX7141	AZX7124	AZX7144	AZX7166
OF 最大(Max.)	600g	600g	600g	600g	600g	150g	220g	180g	240g	200g	280g	120g
RF 最小(Min.)	100g	100g	100g	100g	100g	40g	60g	50g	80g	60g	100g	
PT 最大(Max.)	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	13.5mm	8.5mm	11mm	6.5mm	11mm	6.5mm	250mm
OT 最小(Min.)	0.8mm	5.0mm	6.0mm	6.0mm	6.0mm	4.0mm	2.5mm	3.0mm	2.0mm	3.0mm	2.0mm	11mm
MD 最大(Max.)	0.8mm	0.8mm	0.8mm	0.8mm	0.8mm	3.2mm	2.0mm	2.4mm	1.5mm	2.4mm	1.5mm	
OP	30.5±0.8mm	44±1.2mm	21.8±1.2mm	33.3±1.2mm	33.3±1.2mm	25±1mm	25±1mm	40±1mm	40±1mm	50±1.2mm	50±1.2mm	
FP						35mm	32mm		46mm		56mm	

AZ7系列限位开关 Series Minitype Switches

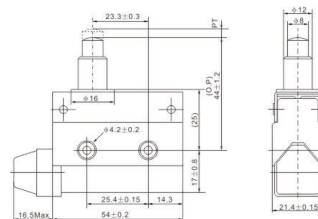
TEZUO 特佐 特佐电器

外观和尺寸 External appearance size

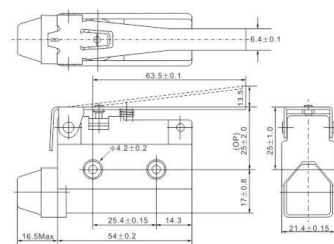
短推压塞柱型
AZ7100



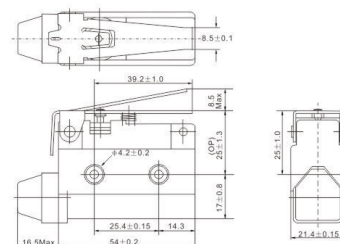
推压塞柱型
AZ7110



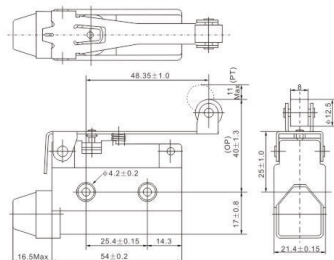
链接杆型
AZ7120



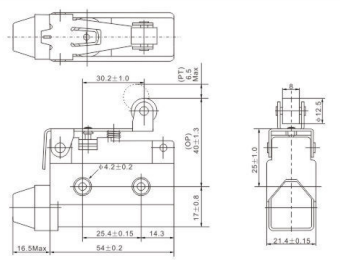
链接短杆型
AZ7140



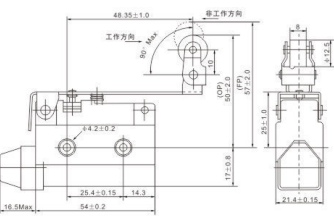
滚轴杆型
AZ7121



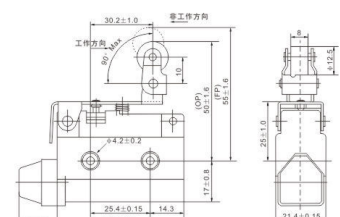
短滚轴杆型
AZ7141



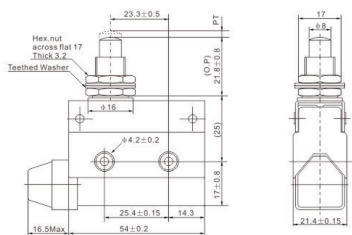
单向滚轴杆型
AZ7124



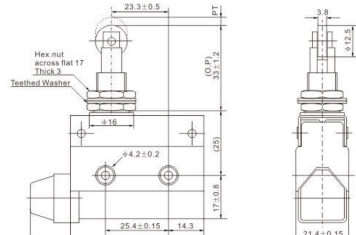
单向滚轴杆型
AZ7144



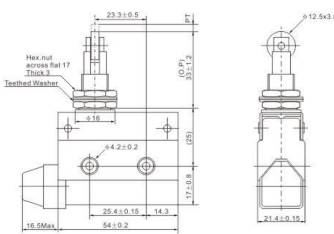
面板安装推压塞柱型
AZ7310



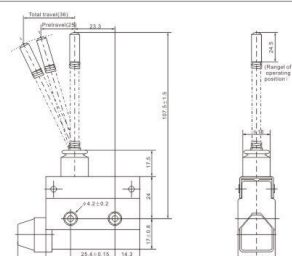
面板安装滚轴塞柱型
AZ7311

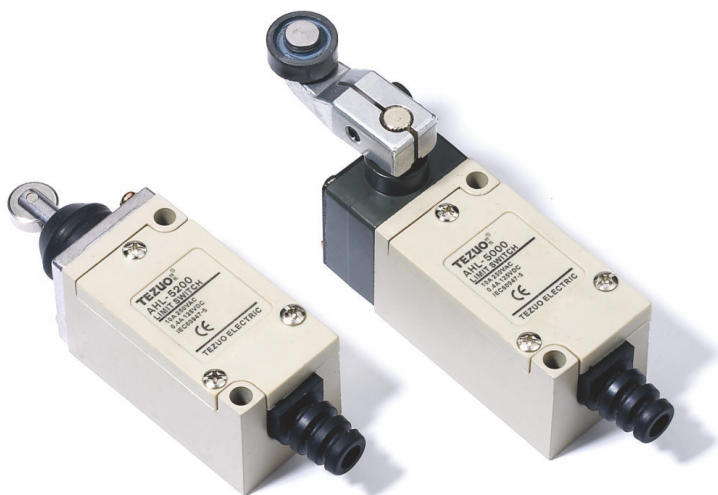


面板安装横跨滚轴塞柱型
AZ7312



弹簧线圈树脂型
AZ7166



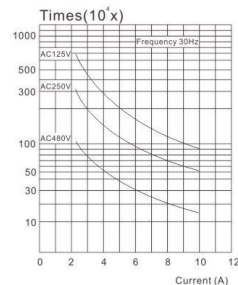


AHL系列行程开关 Limit Switches

特征 Characteristics

- 金属底壳
- 不锈钢滚轮，冲头及弹簧
- 高电性 10A 250V, 50万次
- Metallic bottom shell
- Stainless steel roller, punch and spring
- Strong electric property 10A, 250V, for 500,000 times

电性寿命图 Electrical life



额定值 Rated number

型号	Model	AHL	5000	5030	5050	5100	5200	5220	5300	5330	5381	5391
操作力	Operating force	OF(最大)(Max.)	750g-cm	750g-cm	750g-cm	750g-cm	900g-cm	900g-cm	150g	150g	150g	550g-cm
回弹力	Release force	RF(最小)(Min.)	100g-cm	100g-cm	100g-cm	200g	200g	200g	30g	30g	30g	100g-cm
前预行程	Pre-travel	PT(最大)(Max.)	20°	20°	20°	1.8mm	1.8mm	1.8mm	30mm	30mm	30mm	20°
触发位置	Tripping position	TP(±10%)	22.5°	22.5°	22.5°	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°
行程移动分辨率	Movement differential	MD(最大)(Max.)	10°	10°	10°	1.2mm	1.2mm	1.2mm	14°	14°	14°	14°
触后行程	Over travel	OT(最小)(Min.)	75°	75°	75°	4.0mm	4.0mm	4.0mm	20mm	20mm	20mm	75°
累积总行程	Over travel	TT(最小)(Min.)	95°	95°	95°	5.8mm	5.8mm	5.8mm	50mm	50mm	50mm	95°

动作特性 Action Characteristics

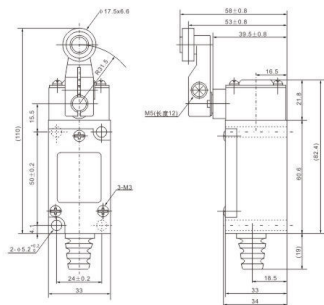
双断开机械功用	Double Break Mechanism	INO+INC Force Break snap action	强迫断开快速机芯
额定电压/电流	Rated Voltage/ Current	10(4)A, 125, 250VAC/6(2)A, 380VAC	For inductance Load, Cos φ = 0.4
接触电阻	Contact Resistance	Initial < 10mΩ, after testing < 30mΩ	
绝缘电阻	Insulation Voltage	Min. 100mΩ at 500VDC	
电介强度	Dielectric Strength	AC 200VAC/Minute for exposed metal/terminals, ground and between opposite poles	
电性寿命	Electrical life	500,000 at 10A 250VAC Resistive	
机械寿命	Mechanical life	20,000,000	
操作速度	Operating Speed	120 Cycles/Minute	
防水防尘能力	Degree of Protection	IP66(防压力水柱级)	
上升温度	Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current	
合乎标准	Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660	
操作温度	Operating Temperature	-25℃~+80℃	
保存温度	Storage Temperature	-25℃~+80℃	
湿度	Humidity	95% RH Max(No Dewing)	
冲击系数	Shock Resistance	Free Position 10G	Overtravel Position 30G
振动频率	Vibration Frequency	55Hz Max	
端子螺丝扭力	Terminal screw Locking Force	6-8 kgf-cm	
其它螺丝扭力	Other Force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60kgf/cm	
裸铜线尺寸	Bare Wire Gange	φ 2 Max	
电缆尺寸	Cable Diameter	φ 9 Max(IP 66 if use cable φ 8-9)	

AHL系列行程开关 Series Limit Switches

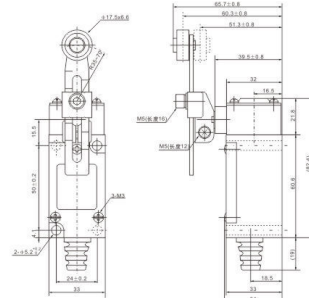
TEZUO 特佐 特佐电器

外观和尺寸 External appearance size

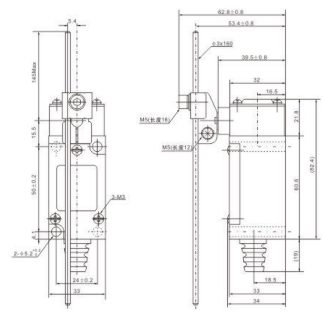
○ 滚轮手柄型
AHL-5000



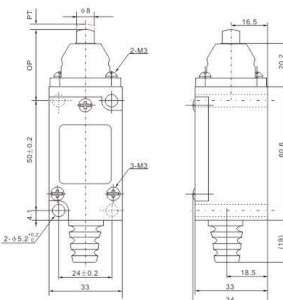
○ 可变滚轮手柄型
AHL-5030



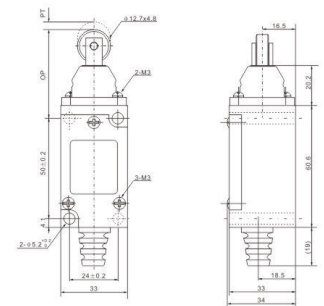
○ 可变杆状手柄型
AHL-5050



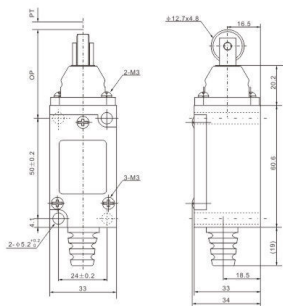
○ 顶部柱塞型
AHL-5100



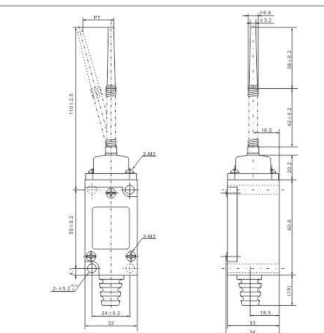
○ 顶部滚轮柱塞型
AHL-5200



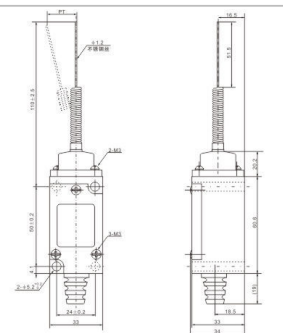
○ 顶部滚轮柱塞型
AHL-5220



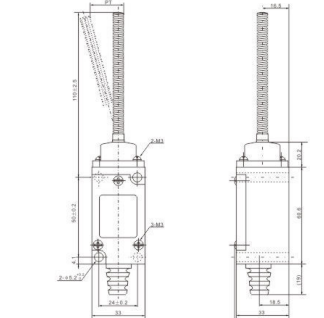
○ 弹簧线圈树脂型
AHL-5300



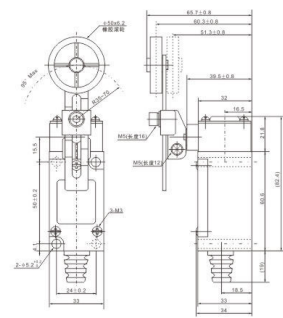
○ 弹簧线圈钢丝型
AHL-5330



○ 弹簧线圈型
AHL-5381



○ 可变大滚轮手柄型
AHL-5391





AWL系列行程开关 Limit Switches

特征 Characteristics

- 双回路型限位开关，用途广泛
- 具坚固之一体铸造铝合金外壳
- 高机械强度
- 具耐油、防水和耐压结构
- 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
- Double-circuit limit switch, is widely used
- Firm aluminum alloy enclosure
- High mechanical strength
- Structure preventing oil, water and pressure
- Indicating plate with setting position is installed in it, so it is easy to maintain
- Kinds of actuators is taken convenience for using
- Built-in contact stand has double-reed, so it has long mechanical life

接点型式 Contact way

常开 Open (4) (3) 常开 Open
常闭 Close (1) (2) 常闭 Close

额定值 Rated number

额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry			
	电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2.0
250VAC	5		2	1	5		3	1
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	

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之10倍。马达负载之突入电流为稳定状态电流之6倍。

Remarks: 1. Electrical carry: power factor=0.4, time constant= 7 msec.
2. The Bulb carry current is 10 times as than in stable condition. Motor carry current is 6 times as than in stable condition.

特性 Characteristics

操作速度 Operation speed	1mm至2m/S (AWLCA2型) 1mm to 2m/S
动作频率 Action frequency	机械: 120次/分 电气: 30次/分 Mechanically: 120 times/minute Electrically: 30 times/Minute
接点电阻 Contact resistance	15M Ω 以下(初期) Under 15mΩ (initial)
绝缘电阻 Insulation resistance	100M Ω 以上(在500VDC以下) 100mΩ above (under 500VDC)
耐电压 Bearing voltage	非连续端子间: 1,000VAC, 50/60Hz持续1分钟 载电流与无载电流零件间与端子与接地之间: 2,200VAC, 50/60Hz持续1分钟 Non-contact end: 1,000VAC, 50/60Hz for one minute Current parts and noncurrent parts and end and connect position: 2,200VAC, 50/60Hz for one minute
振动 Vibration	误动作耐久: 10至55Hz, 1.5mm双振幅 Action: 10 to 55Hz, 1.5mm pairs swing
冲击 Hitting	机械耐久: 1,000m/Sec ² (约100G'S) 误动作耐久: 300m/Sec ² (约30G'S) Machine: 1,000m/Sec ² (about 100G'S) Action: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时: -10 至 +80℃
湿度 Humidity	最大95%RH Max 95% RH
使用寿命 Serve life	机械: 15,000,000次以上(在额定OT值下) 电气: 500,000次以上 Mechanically: 15,000,000 times above (at rated ot) Electrically: 500,000 times above
重量 Weight	约275g(AWLCA2-2) About 275g
防护等级 Protection structure	IEC 规格: IP67 IEC specification: IP67

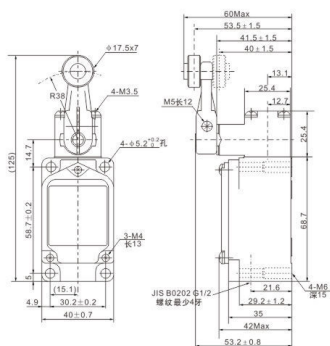
动作特性 Action Characteristics

型号 Models	AWLCA2-2	AWLD2	AWLNJ	AWLNJ-S2	AWLCA12	AWLCL	AWLCA32-41	AWLD	AWLNJ-2	AWLNJ-30	AWLD1	AWLD3
OF 最大(Max.)	1360g	2720g	150g	29g	1360g	142g	1200g	2720g	120g	80g	2720g	2720g
RF 最小(Min.)	227g	910g	-	-	227g	28g	-	910g	-	-	910g	910g
PT 最大(Max.)	20°	1.7mm	28mm	28mm	20°	20°	55°	1.7mm	28mm	28mm	1.7mm	1.7mm
OT 最小(Min.)	30°	5.6mm	-	-	30°	30°	35°	6.4mm	-	-	5.6mm	5.6mm
MD 最大(Max.)	12°	1mm	-	-	12°	12°	-	1mm	-	-	1mm	1mm
TF 最大(Max.)	2720g	-	-	-	2720g	200g	-	-	-	-	2720g	2720g
TT 最小(Min.)	50°	6.5±0.8mm	-	-	50°	50°	OP: 90±10°	OP: 34±2.8mm	-	-	6.5±0.8mm	9±0.8mm

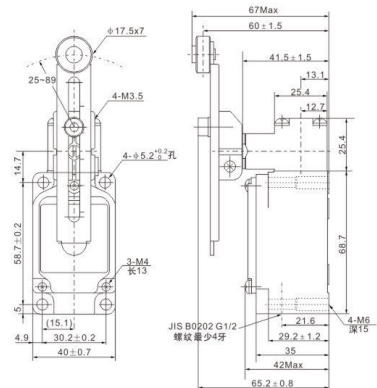
AWL系列行程开关 Series Limit Switches

TEZUO 特佐电器

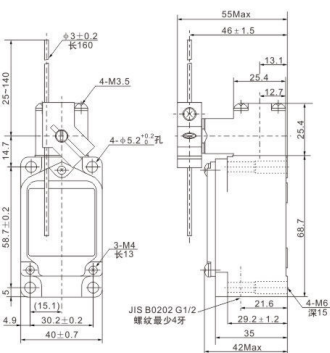
○ 滚轮手柄型 AWLCA2型 AWLCA2-2型



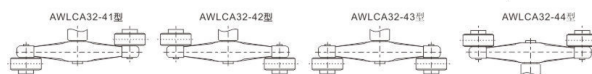
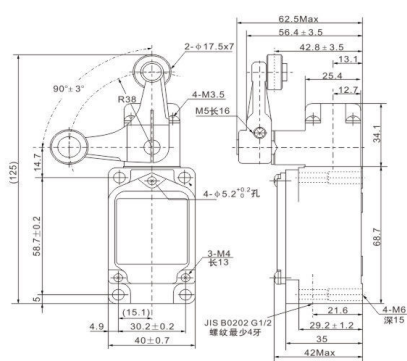
○ 滚轮手柄型 AWLCA12型 AWLCA12-2型



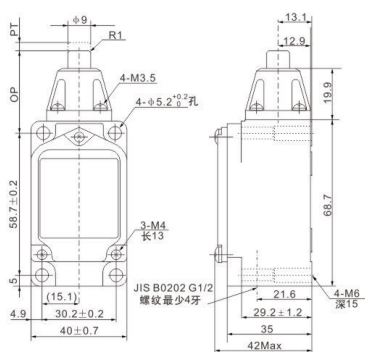
○ 可变杆状手柄型 AWLCL型



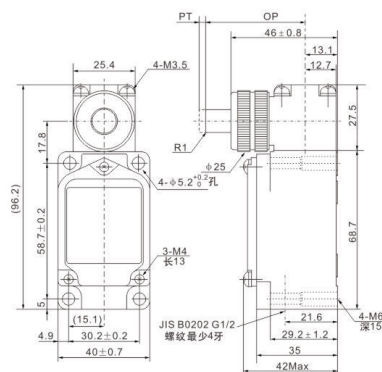
○ 叉状手柄型 AWLCA32-41~44型



○ 顶部柱塞型 AWLD型



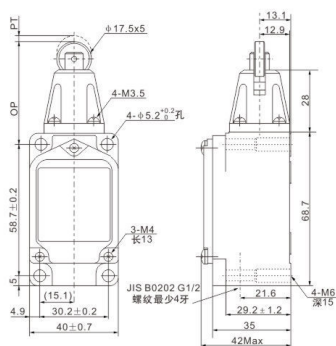
○ 侧面柱塞型 AWSD型



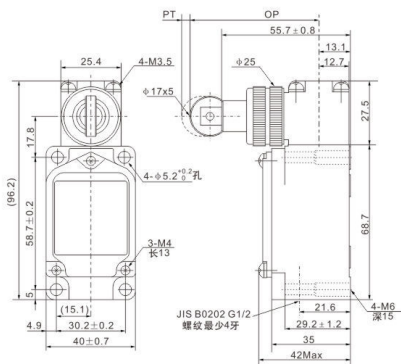
AWL系列行程开关 Series Limit Switches

TEZUO 特佐 特佐电器

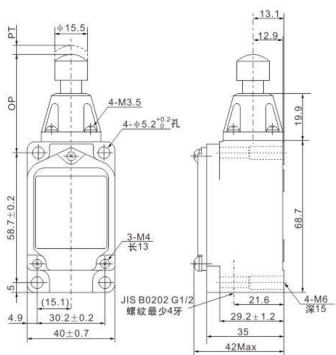
顶部滚轮柱塞型
AWLD2型



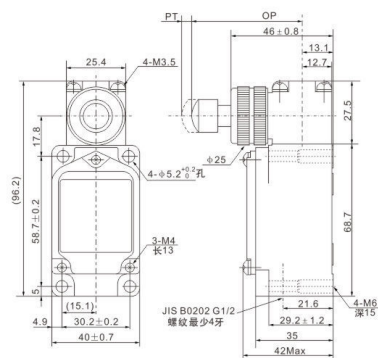
侧面滚轮柱塞型
AWLSD2型



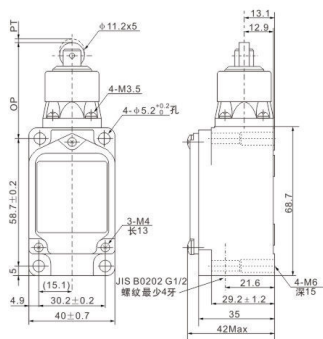
顶部球形柱塞型
AWLD3型



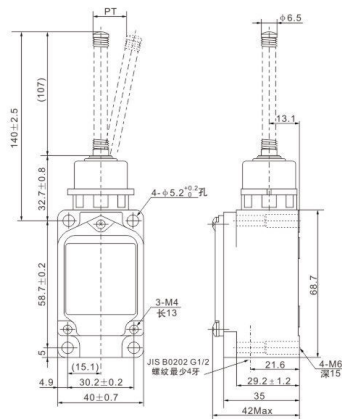
侧面球形柱塞型
AWLSD3型



密封顶部滚轮柱塞型
AWLD28型



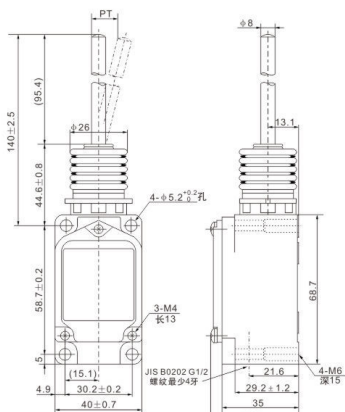
线圈簧片型
AWLNJ型



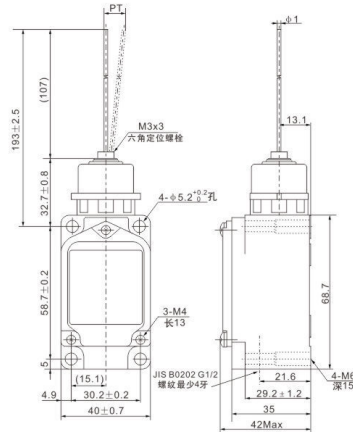
AWL系列行程开关 Series Limit Switches

TEZUO 特佐 特佐电器

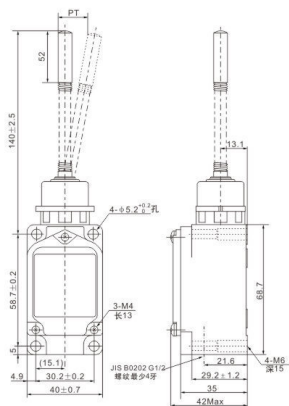
○ 线圈簧片型(树脂型)
AWLNJ-2型



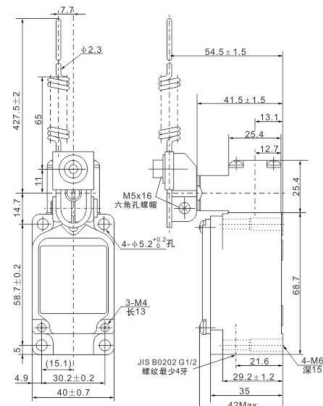
○ 钢丝型
AWLNJ-S2型



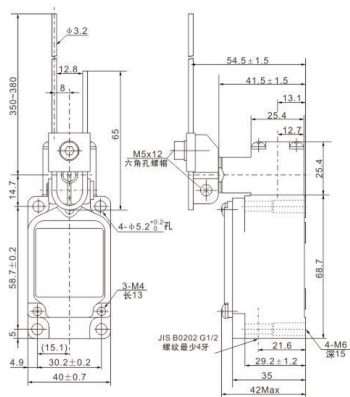
○ 线圈簧片型
AWLNJ-30型



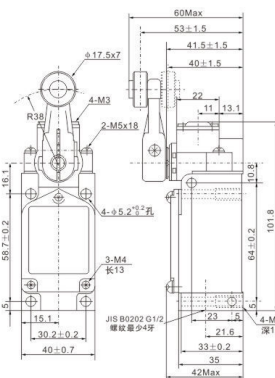
○ 簧片杆手柄型
AWLHAL5型



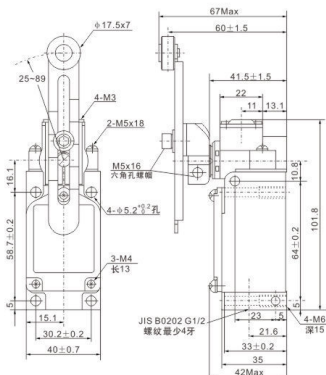
○ 可变杆手柄型
AWLHAL4型



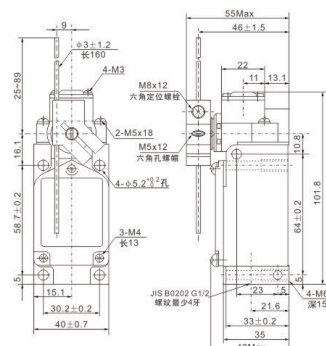
○ 滚轮手柄型
AWLCA2-2N型



○ 滚轮手柄型
AWLCA12-2N型

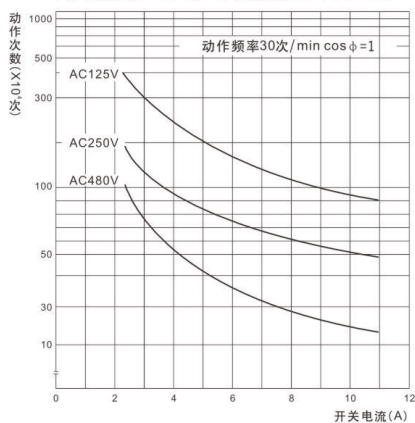


○可变杆状手柄型
AWLCL-2N型



电性寿命图 Electrical life

电气寿命曲线($\cos \phi = 1$)
(环境温度5~30℃、环境湿度40~70%RH)



大角度型

- 动作后移动大,易设定凸爪的限动开关。
- 大角度型除了一般型、高感度型之外,尚有可单侧动作 90° 的-2N系列。
- 2N系列可侧面安装。
- 由于和标准型的主要尺寸相同,具有安装的互换性。
- 与标准型同样具有耐油、防水、防尘构造(IP67)。

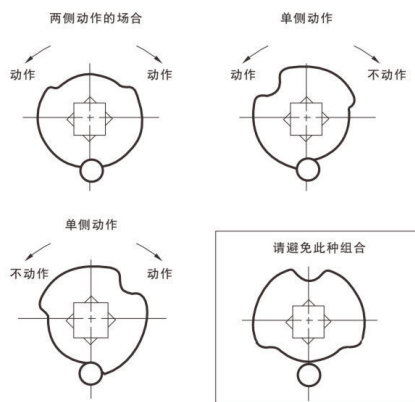
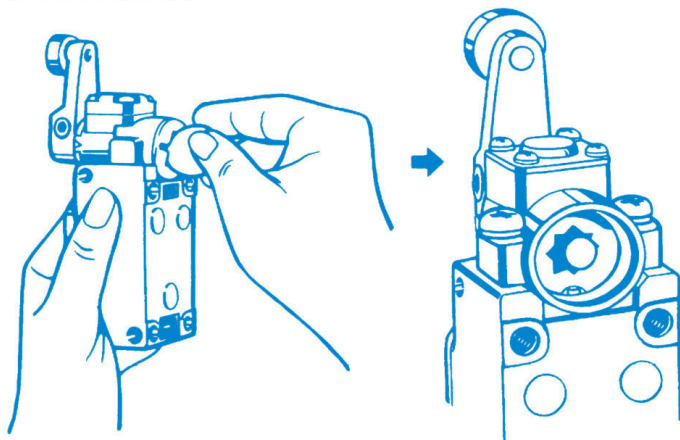
大角度型

一般型、高感度型	-2N系列
 Diagram illustrating the general type sensor. The head (P) has a range of motion of 180° (indicated by a curved arrow). The handle (H) has a range of motion of 80° (indicated by a curved arrow).	 Diagram illustrating the -2N series sensor. The head (P) has a range of motion of 180° (indicated by a curved arrow). The handle (H) has a range of motion of 90° (indicated by a curved arrow).
・头部方向为四方向可安装 ・单侧手柄80° 动作不可单侧动作	・头部可前后双向安装 ・单侧手柄90° 动作可以单侧动作

凸轮支持器(gum holder)用硬币或一字起子松开,将插入在内部凸轮取出。

依需要的动作将凸轮方向改变后插入

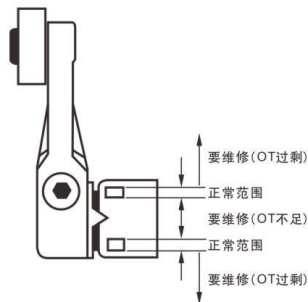
凸轮和动作的关系
(凸轮,开关由背面看的图)



AWL系列行程开关 Series Limit Switches

TEZUO 特佐电器

组装位置表示板 动作后,请作组装调整,使表示的凸部进入轴承部的凸部内,以在最佳状态下使用。另外,WLD2型柱塞部的两双切幅之设定在适当操作范围。

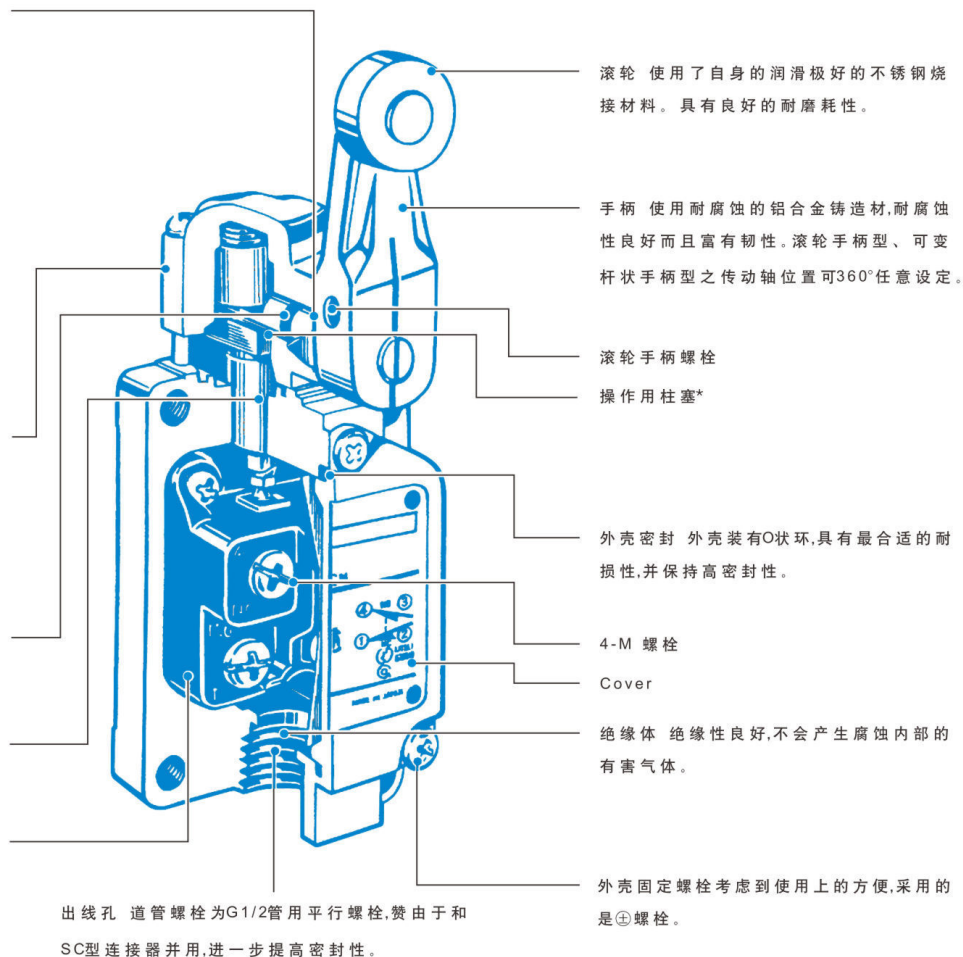


头部 滚轮手柄型、可双杆状手柄型、侧柱塞型的头部可随四处螺栓的拆除安装在四个方向中的任意一方。(但-2N型除外)

旋转轴部的密封 旋转轴上装有O型环、透过适当栓紧,可保持很高的密封性。

轴承 使柱塞的移动圆滑

内装开关1500万次以上的机械寿命(微小负载型除外)。



滚轮 使用了自身的润滑极好的不锈钢烧接材料。具有良好的耐磨耗性。

手柄 使用耐腐蚀的铝合金铸造材,耐腐蚀性良好而且富有韧性。滚轮手柄型、可变杆状手柄型之传动轴位置可360°任意设定。

滚轮手柄螺栓
操作柱塞*

外壳密封 外壳装有O状环,具有最合适的耐损性,并保持高密封性。

4-M 螺栓
Cover

绝缘体 绝缘性良好,不会产生腐蚀内部的有害气体。

外壳固定螺栓考虑到使用上的方便,采用的是④螺栓。

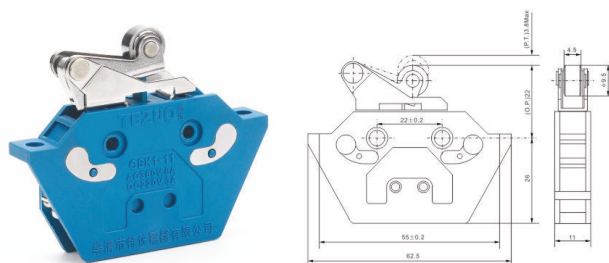
出线孔 道管螺栓为G1/2管用平行螺栓,赞由于和SC型连接器并用,进一步提高密封性。

CSK磁气式系列行程开关 Joryney Switches

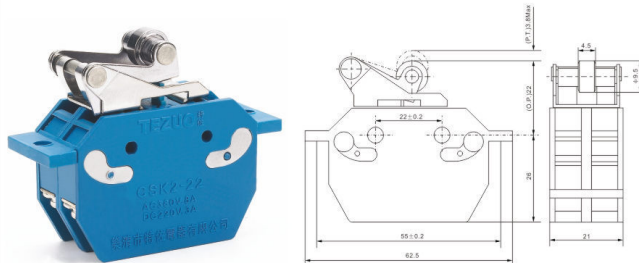
使用用途 Applicatin

适用于交流50-60HZ; AC380V; DC220; 电流3A的电气线路中,将机械运动转变成电气信号,作为机床,机械自动控制、限制运动、传动机构动作或自动化程序控制之用。

推压塞柱型
CSK1-11



推压塞柱型
CSK2-22



AD4MC系列密封开关 Sealed Switches

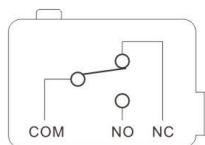
型号说明 Models instructions

AD4MC-

① 传动轴的种类

5000:面板安装柱塞型
5020:面板安装滚轮柱塞型
5040:面板安装叉状滚轮柱塞型
1020:柜轴短手柄型
1000:柜轴手柄型
2000:柜轴滚轮手柄型
2020:柜轴滚轮短手柄型
3030:单向柜轴滚轮短手柄型

接点型式 Contact way



额定值 Rated number

额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry				突入电流(A) Current	
	电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2.5	30 Max	15 Max
250VAC	10		2.5	1.25	10		3	1.5		
480VAC	3		1.5	0.75	2.5		1.5	0.75		
8VDC	10		3	1.5	6		5	2.5		
14VDC	10		3	1.5	6		5	2.5		
30VDC	6		3	1.5	5		5	2.5		
125VDC	0.5		0.4	0.4	0.05		0.05	0.05		
250VDC	0.25		0.2	0.2	0.03		0.03	0.03		

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之10倍。马达负载之突入电流为稳定状态电流之6倍。

Remarks: 1. Electrical carry: power factor=0.4, time constant= 7 msec.

2. The Bulb carry current is 10 times as than in stable condition. Motor carry current is 6 times as than in stable condition.

特性 Characteristics

操作速度 Operation speed	0.05mm至0.5mm/S (柱塞型) 0.05mm to 0.5mm/Sec
动作频率 Action frequency	机械:120次/分 电气:20次/分 Mechanically:120 times/minute Electrically:20 times/Minute
接点电阻 Contact resistance	15MΩ以下(初期) Under 15mΩ(initial)
绝缘电阻 Insulation resistance	100MΩ以上(500VDC) 100mΩ above (at 500VDC)
耐电压 Bearing voltage	非连续端子间:1,000VAC,50/60Hz持续1分钟 载电流与无载电流零件间与端子和接地之间2,000VAC,50/60Hz持续1分钟 Non-contact end:1,000VAC,50/60Hz for one minute Current parts and noncurrent parts and end and connect position :2,000VAC,50/60Hz for one minute
振动 Vibration	10至55HZ:1.5mm 10 to 55HZ:1.5mm
冲击 Hitting	机械耐久: 1,000m/Sec ² (约100G'S) 误动作耐久: 100m/Sec ² (约10G'S) Machine:1,000m/Sec ² (about 100G'S) Action:100m/Sec ² (about 10G'S)
周围温度 Ambient temperature	-10℃至+80℃ -10℃ to +80℃
湿度 Humidity	35%~95% RH 35% to 95% RH
使用寿命 Serve life	机械:10,000,000次以上(在额定OT值下) 电气:500,000次以上 Mechanically:10,000,000 times above(at rated ot) Electrically:500,000 times above
重量 Weight	约71g(面板安装柱塞型时) About 71g
防护等级 Protection structure	IEC 规格:IP67 IEC specification:IP67

动作特性 Action Characteristics

型号 Models	AD4MC-5000	AD4MC-5020	AD4MC-5040	AD4MC-1020	AD4MC-1000	AD4MC-2000	AD4MC-2020	AD4MC-3030
OF 最大(Max.)	600	600	600	260	170	200	300	300
RF 最小(Min.)	100	100	100	35	25	40	40	40
PT 最大(Max.)	1.6mm	1.6mm	1.6mm	-	-	-	-	-
OT 最小(Min.)	5mm	5mm	5mm	2.5mm	4mm	5mm	2mm	2mm
MD 最大(Max.)	0.2mm	0.2mm	0.2mm	1.7mm	3mm	3mm	1.5mm	1.5mm
FP 最大(Max.)	-	-	-	33mm	36mm	51mm	47mm	57.2mm
OP(mm)	21.8±1.2mm	33.4±1.2mm	33.4±1.2mm	25±1mm	25±1mm	40±1mm	40±1mm	50±1mm

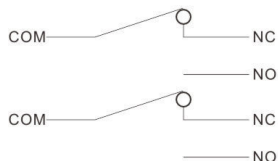
TEZUO[®] 特佐 **特佐电器**

ADZ双极双投微动开关 Micro Switches

独立的2路开合用开关

电压不同的2个电路的开关或者独立的2路控制。
安装孔尺寸、安装螺距、按钮位置和AZX15型相同。

接点型式 Contact way(2c接点)



接点规格 Contact size

接点 Contact	材质	银合金
	间隔 (标准值)	0.5mm
浪涌电流 Current	常闭	最大30A
	常开	最大15A



额定值 Rated number

额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry			
	电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		2	1	6		3	1.5
250VAC	10		1.5	0.7	4		2	1
8VDC	10		3	1.5	6		5	2.5
14VDC	10		3	1.5	6		5	2.5
30VDC	10		3	1.5	4		3	1.5
125VDC	0.5		0.5		0.05		0.05	
250VDC	0.25		0.25		0.03		0.03	

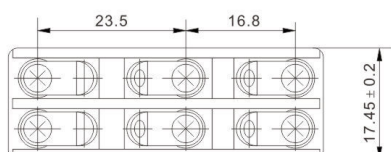
注：1、电感性负载功率因素=0.4,时间常数7msec以下(直流)的负载。
2、灯泡负载之突入电流为稳定状态之10倍。马达负载之突入电流为稳定状态电流之6倍。

Remarks: 1. Electrical carry: power factor=0.4, time constant under 7 msec.
2. The Bulb carry current is 10 times as than in stable condition. Motor carry current is 6 times as than in stable condition.

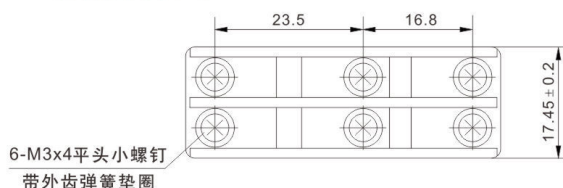
特性 Characteristics

操作速度 Operation speed	0.1mm至1m/S(针状按钮型) 0.1mm to 1m/Sec
动作频率 Action frequency	机械:240次/分 电气:20次/分 Mechanically:240 times/minute Electrically:20 times/Minute
接点电阻 Contact resistance	15MΩ以下(初期) Under 15mΩ(initial)
绝缘电阻 Insulation resistance	100MΩ以上(500VDC) 100mΩ above (at 500VDC)
耐电压 Bearing voltage	非连续端子间1,000VAC, 50/60Hz持续1分钟 载电流与无载电流零件间与端子与接地之间1,500VAC, 50/60Hz持续1分钟 Non-contact end:1,000VAC, 50/60Hz for one minute Current parts and noncurrent parts and end and connect position :1,500VAC, 50/60Hz for one minute
振动 Vibration	10至55HZ:1.5mm 10 to 55HZ:1.5mm
冲击 Hitting	机械耐久: 1,000m/Sec ² (约100G'S) 误动作耐久: 300m/Sec ² (约30G'S) Machine:1,000m/Sec ² (about 100G'S) Action:300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	-25℃至+80℃ -25℃ to +80℃
湿度 Humidity	35%~85% RH 以下 35% to 95% RH
使用寿命 Serve life	机械:10,000,000次以上(在额定OT值下) 电气:500,000次以上 Mechanically:10,000,000 times above(at rated ot) Electrically:500,000 times above
重量 Weight	约30~50g About 30~50g
防护等级 Protection structure	IEC 规格:IP00 IEC specification:IP00

外形尺寸/端子的种类 ○焊接端子(-1A)



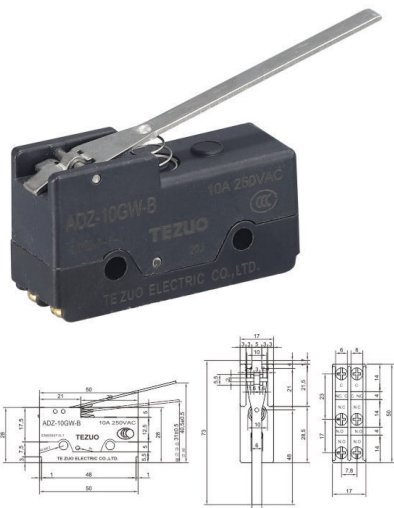
○螺钉紧固端子(-B)



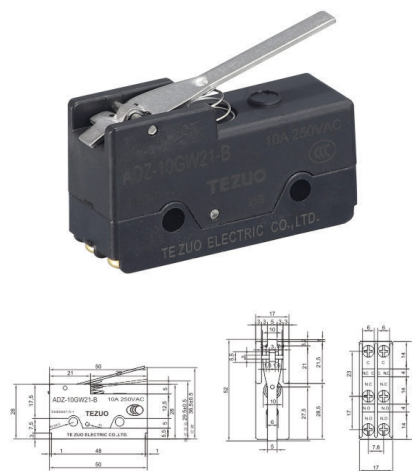
ADZ系列微动开关 Series Micro Switches

TEZUO 特佐 特佐电器

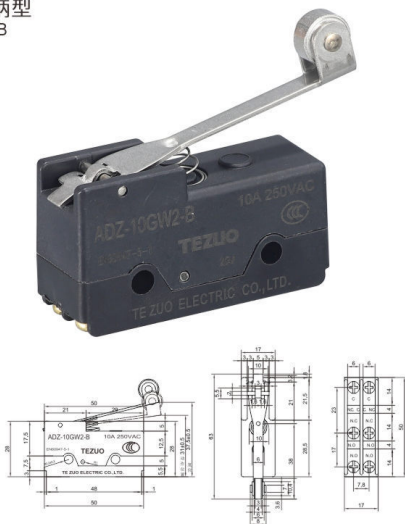
○ 枢轴手柄型
ADZ-10GW-B



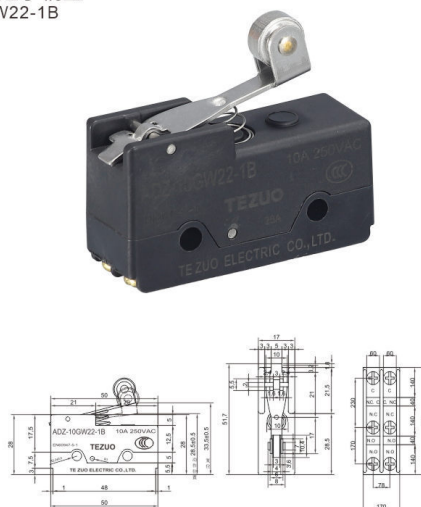
○ 枢轴短手柄型
ADZ-10GW21-B



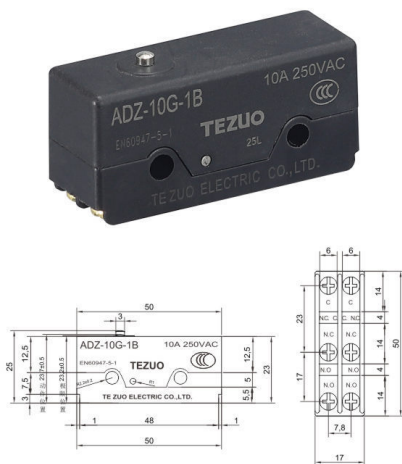
○ 枢轴滚轮手柄型
ADZ-10GW2-B



○ 枢轴滚轮短手柄型
ADZ-10GW22-1B

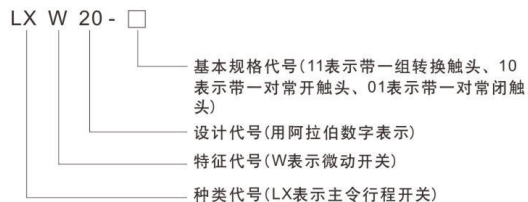


○ 按钮型
ADZ-10G-1B



LXW20系列微动开关 Micro Switches

型号说明 Models instructions



使用用途 Application

LXW20系列微动开关适用于额定工作电压AC380V;额定工作电流或功率AC-1 16A, AC-15 720VA的控制电路中。该产品广泛用于家用电器、机械、电气等电路中,作为交流电磁铁或感性负载的控制。

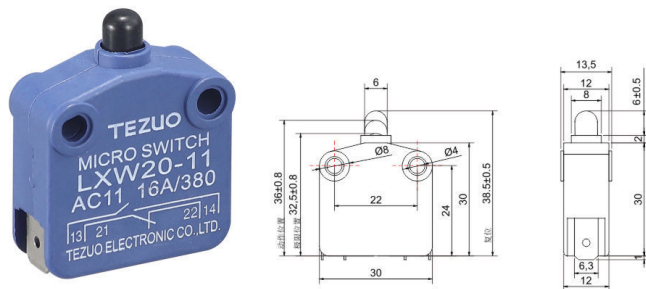
The series of LXW20 sensitive switch are commonly used by power and Electricity, house Electricity car Electricity, Electron, Mechanical device. Etc

结构特点

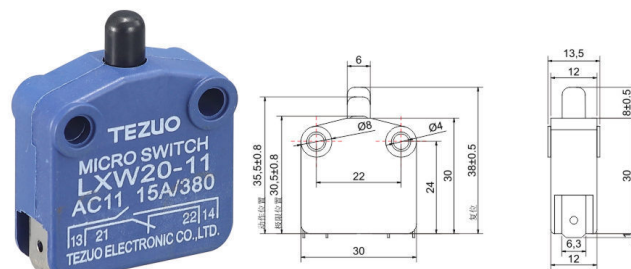
开关内部具有一组瞬动机构,触头采用银基合金,机体采用绝缘性能优良的优质工程塑料制成,具有阻燃、增强、耐热、耐久性高等特点。接线端子为插接式(AMP250-6.3×0.8)。

The Inside of switch, There is a battery of framework that instantaneous release.

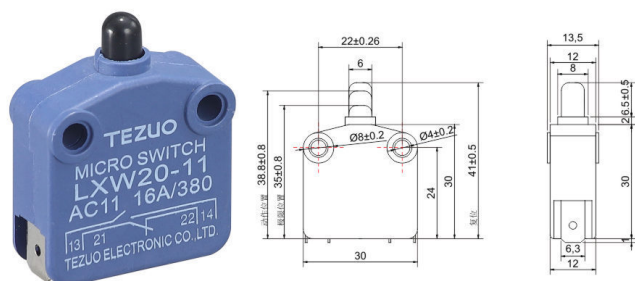
○ 推压塞柱型(带护柱) LXW20-11(7mm) 16A/380V



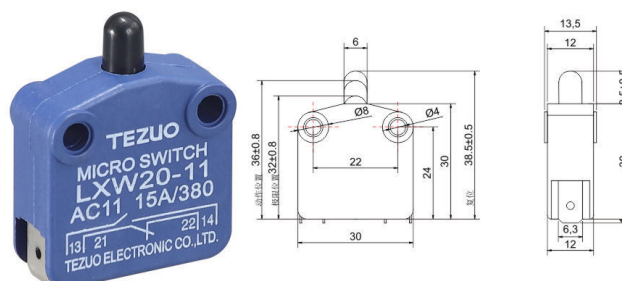
○ 推压塞柱型 LXW20-11 (7mm) 16A/380V



○ 推压塞柱型(带护柱) LXW20-11(9mm) 16A/380V



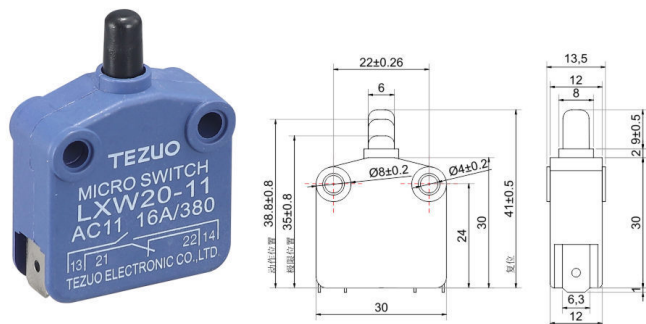
○ 推压塞柱型 LXW20-11(9mm) 16A/380V



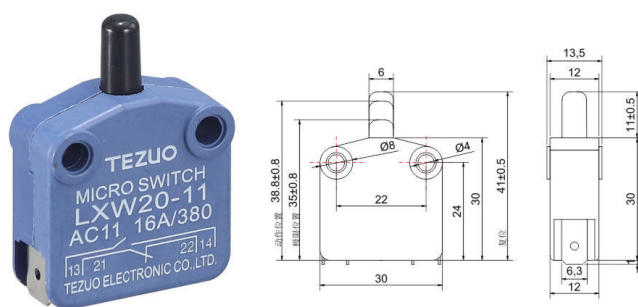
LXW20系列微动开关 Micro Switches

TEZUO 特佐电器

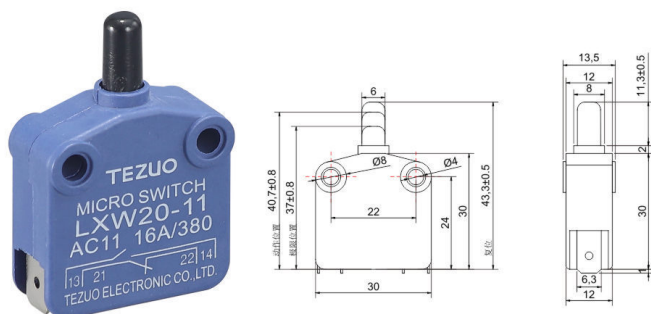
- 推压塞柱型(带护柱)
LXW20-11(11mm)
16A/380V



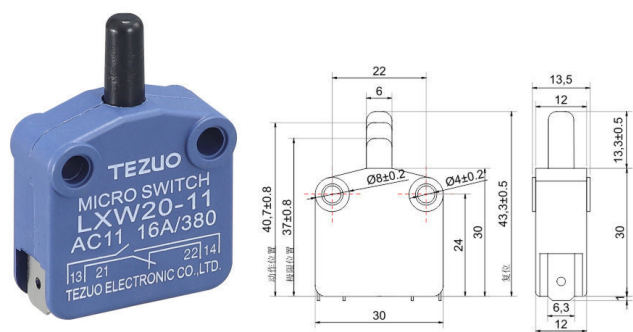
- 推压塞柱型
LXW20-11(11mm)
16A/380V



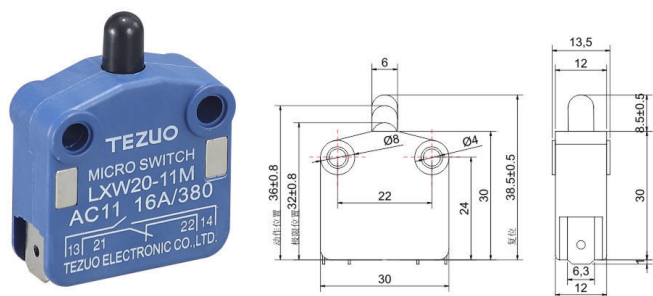
- 推压塞柱型(带护柱)
LXW20-11(13mm)
16A/380V



- 推压塞柱型
LXW20-11 (13mm)
16A/380V



- 推压塞柱型(带磁铁)
LXW20-11M(9mm)
16A/380V



AZC-□55系列密封开关 Sealed Switches

型号说明 Models instructions

AZC-□55

① 传动轴的种类

D :柱塞型

Q :面板安装柱塞型

Q22:面板安装滚轮柱塞型

Q21:面板安装交叉滚轮柱塞型

N22:密封滚轮柱塞型

N21:密封交叉滚轮柱塞型

W :矩轴短手柄型

W1 :矩轴手柄型

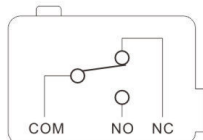
W2 :矩轴滚轮短手柄型

W21:矩轴滚轮手柄型

W3:单方向动作矩轴滚轮短手柄型

W31:单方向动作矩轴滚轮手柄型

接点型式 Contact way



额定值 Rated number

额定电压 Rated voltage	非电感性负载 Nonelectrical carry				电感性负载(A) Electrical carry				突入电流(A) Current	
	电阻性负载 Resistance carry		灯泡负载 Bulb carry		电感性负载 Electrical carry		马达负载 Motor carry		NC	NO
	NC	NO	NC	NO	NC	NO	NC	NO		
125VAC	10	3	1.5		10	5	2.5		30 Max	15 Max
250VAC	10	2.5	1.25		10	3	1.5			
8VDC	10	3	1.5		6	5	2.5			
14VDC	10	3	1.5		6	5	2.5			
30VDC	6	3	1.5		5	5	2.5			
125VDC	0.5	0.4	0.4		0.05	0.05	0.05			
250VDC	0.25	0.2	0.2		0.03	0.03	0.03			

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之10倍。马达负载之突入电流为稳定状态电流之6倍。

Remarks:1.Electrical carry:power factor=0.4,time constant=7 msec.

2.The Bulb carry current is 10 times as than in stable condition. Motor carry current is 6 times as than in stable condition.

特性 Characteristics

操作速度 Operation speed	0.05mm至0.5mm/S (柱塞型) 0.05mm to 0.5mm/Sec
动作频率 Action frequency	机械:120次/分 电气:20次/分 Mechanically:120 times/minute Electrically:20 times/Minute
接点电阻 Contact resistance	15MΩ以下(初期) Under 15mΩ(initial)
绝缘电阻 Insulation resistance	100MΩ以上(500VDC) 100mΩ above (at 500VDC)
耐电压 Bearing voltage	非连续端子间:1,000VAC,50/60Hz持续1分钟 载电流与无载电流零件间与端子和接地之间2,000VAC,50/60Hz持续1分钟 Non-contact end:1,000VAC,50/60Hz for one minute Current parts and noncurrent parts and end and connect position :2,000VAC,50/60Hz for one minute
振动 Vibration	10至55HZ:1.5mm 10 to 55HZ:1.5mm
冲击 Hitting	机械耐久: 1,000m/Sec ² (约100G ² S) 误动作耐久: 100m/Sec ² (约10G ² S) Machine:1,000m/Sec ² (about 100G ² S) Action:100m/Sec ² (about 10G ² S)
周围温度 Ambient temperature	-10℃至+80℃ -10℃ to +80℃
湿度 Humidity	35%~95% RH 35% to 95% RH
使用寿命 Serve life	机械:10,000,000次以上(在额定OT值下) 电气:500,000次以上 Mechanically:10,000,000 times above(at rated ot) Electrically:500,000 times above
重量 Weight	约92g(面板安装滚轮柱塞型) About 92g
防护等级 Protection structure	IEC 规格:IP67 IEC specification:IP67

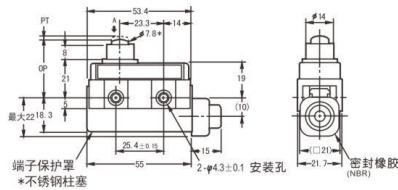
动作特性 Action Characteristics

型号 Models	AZC-D55	AZC-Q55	AZC-Q2255	AZC-Q2155	AZC-N2255	AZC-N2155	AZC-W55	AZC-W155	AZC-W255	AZC-W2155	AZC-W355	AZC-W3155
OF 最大(Max.)	1200	1200	1200	1200	700	700	400	280	400	280	400	280
RF 最小(Min.)	500	500	500	500	170	170	80	60	80	60	80	60
PT 最大(Max.)	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	-	-	-	-	-	-
OT 最小(Min.)	2.4mm	3mm	3mm	3mm	2.5mm	2.5mm	6mm	8.4mm	6mm	8.4mm	6mm	8.4mm
MD 最大(Max.)	0.2mm	0.2mm	0.2mm	0.2mm	0.2mm	0.2mm	1mm	1.4mm	1mm	1.4mm	1mm	1.4mm
FP 最大(Max.)	-	-	-	-	-	-	34.7mm	36.7mm	49.2mm	51.3mm	59.2mm	61.2mm
OP(mm)	32.4±0.8mm	38.2±0.8mm	47.4±0.8mm	47.4±0.8mm	47.4±0.8mm	47.4±0.8mm	28.5±1.2mm	28.5±1.2mm	43±1.2mm	43±1.2mm	53±1.2mm	53±1.2mm

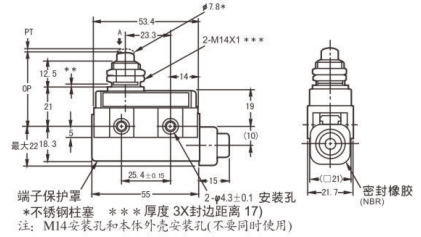
AZC-□55系列密封开关 Series Sealed Switches

TEZUO 特佐 特佐电器

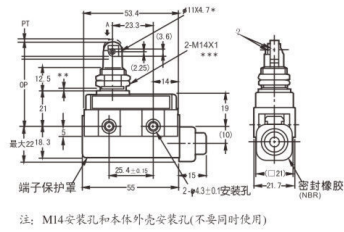
○ 柱塞型
AZC-D55



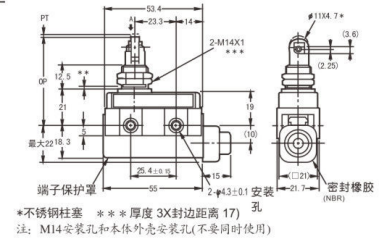
○ 面板安装式柱塞型
AZC-Q55



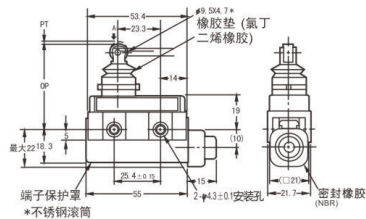
○ 面板安装式滚轮柱塞型
AZC-Q2255



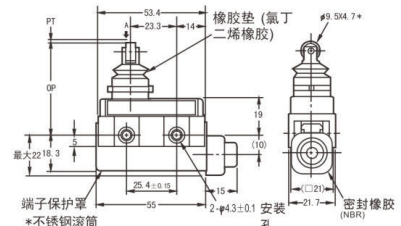
○ 面板安装式交叉滚轮柱塞型
AZC-Q2155



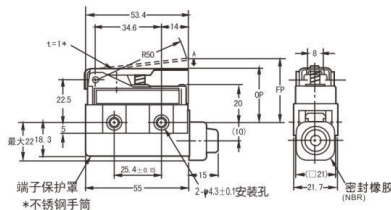
○ 密封滚轮柱塞型
AZC-N2255



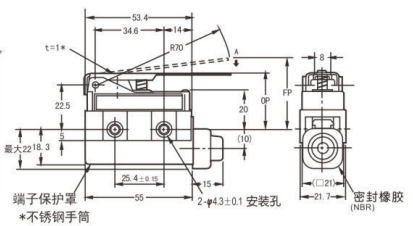
○ 密封交叉滚轮柱塞型
AZC-N2155



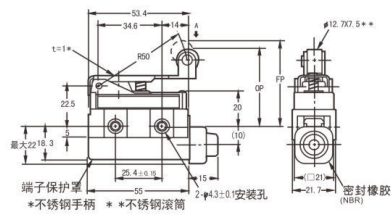
○ 枢轴短手柄型
AZC-W55



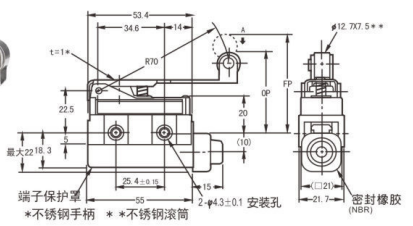
○ 枢轴手柄型
AZC-W155



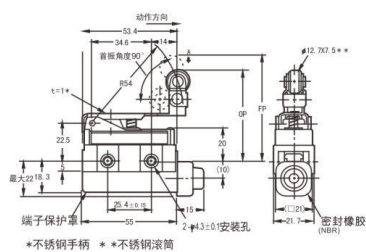
○ 枢轴滚轮短手柄型
AZC-W255



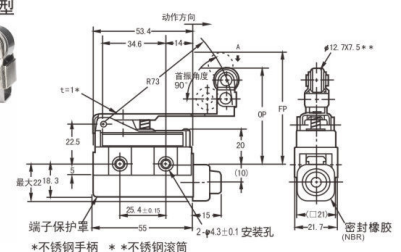
○ 枢轴滚轮手柄型
AZC-W2155



○ 单方向动作枢轴滚轮短手柄型
AZC-W355



○ 单方向动作枢轴滚轮手柄型
AZC-W3155



AZX1000系列行程开关 Limit Switches

型号说明 Models instructions

AZX-

①

① 传动轴的种类

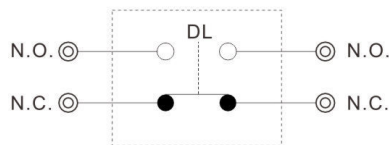
1000:滚轴杆型

1001:推压塞杆型

1002: 滚轴塞杆

1004: 滚轴臂型

接点型式 Contact way



额定值 Rated number

额定电压 Rated voltage	交流(VAC)			直流(VDC)		
	125VAC	250VAC	380VAC	24VDC	60VDC	220VDC
非电感性负载 Nonelectrical carry	6A	6A	6A	5A	1.5A	0.3A
电感性负载(A) Electrical carry	6A	6A	6A	2.5A	1.5A	0.3A

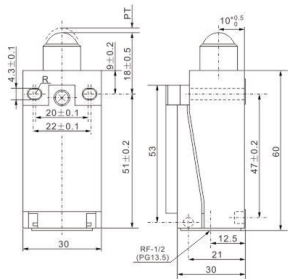
动作特性 Action Characteristics

型号 Models	AZX1000	AZX1001	AZX1002	AZX1004	AZX1008
OF 最大(Max.)	400	650	650	500	500
RF 最小(Min.)	80	150	150	50	50
PT 最大(Max.)	4mm	2mm	2mm	20° to 26°	20° to 26°
OT 最小(Min.)	5mm	4mm	4mm	30°	30°
MD 最大(Max.)	1.6mm	1.2mm	1.2mm	14°	14°
OP(mm)	-	18±0.5	28±1	-	-

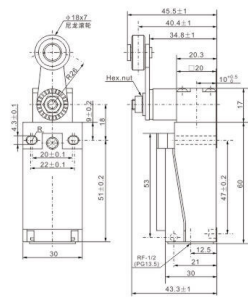
特性 Characteristics

接点电阻 Contact resistance	25mΩ 25mΩ
绝缘电阻 Insulation resistance	100mΩ 以上 (500VDC) 100mΩ above (at 500VDC)
耐电压 Bearing voltage	非连续端子间1,000VAC,50/60Hz持续1分钟 载电流与无载电流零件间与端子与接地之间2,500VAC,50/60Hz持续1分钟 Non-contact end:1,000VAC,50/60Hz for one minute Current parts and noncurrent parts and end and connect position :2,500VAC,50/60Hz for one minute
振动 Vibration	10至55HZ:1.5mm 10 to 55HZ:1.5mm
冲击 Hitting	机械耐久: 1,000m/Sec ² (约100G'S) 误动作耐久: 300m/Sec ² (约30G'S) Machine:1,000m/Sec ² (about 100G'S) Action:100m/Sec ² (about 10G'S)
周围温度 Ambient temperature	-30℃ 至 +80℃ -30℃ to +80℃
湿度 Humidity	最大 95% RH 95% RH Max
使用寿命 Serve life	机械:10,000,000次以上(在额定OT值下) 电气:150,000次以上 Mechanically:10,000,000 times above(at rated ot) Electrically:150,000 times above
防护等级 Protection structure	IEC 规格:IP67 IEC specification:IP67

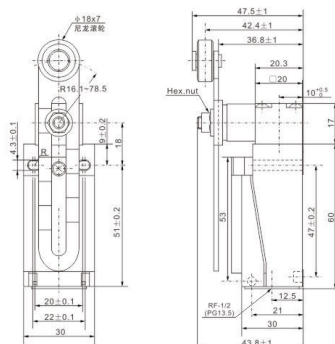
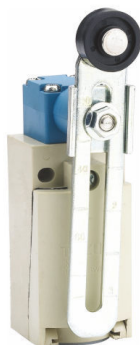
○ 滚轴杆型
AZX-1000



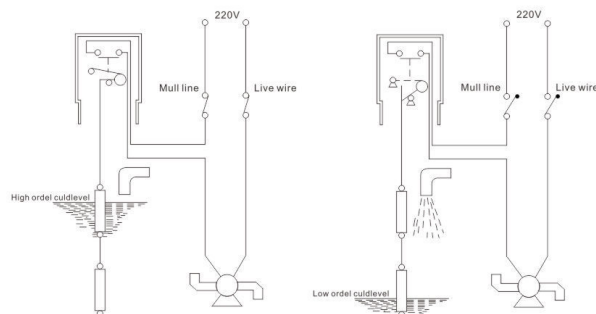
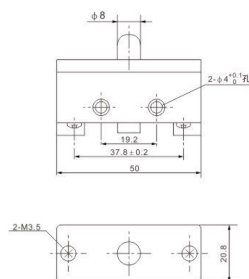
○ 滚轴臂型
AZX-1004



○可调滚轴臂型
AZX-1008

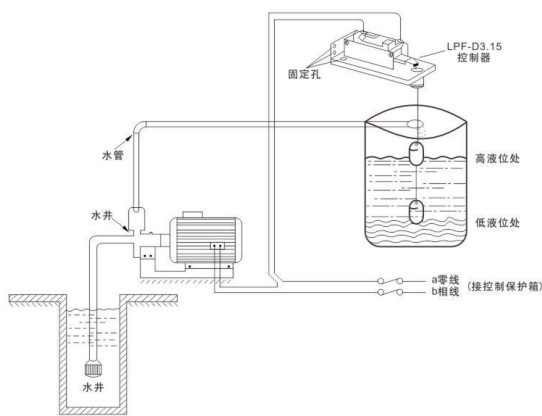


浮球开关/控制器 LPF-70AB型



浮球液位控制器 LPF-D3.15型

安装及接线方法



重锤的装置法

当开关固定好后,利用提供的丝线,把一个重锤放置在你想设定的最高液位处;再用丝线连结好另一个重锤,将它旋转在你想设定的最低液位处(注意不能接触容器底部)。

技术参数

额定电流、电压:10(5A)250V-10(3A)380V;

工作温度: -10°C ~ 80°C ;

工作寿命: ≥ 50000 ;

性能特点

LPE-D3.15型浮球控制器是一个能够调节桶、槽或井中液位的开关。它可自动调节、易于调节、易于操作、便于安装、安全可靠、免于维修、无毒环保。它对污水有抵抗作用。产品经浙江省工业产品检测中心检验合格,符合Q/QLP0001-2002标准。广泛应用于家庭、厂矿等的水池、油弱酸和弱碱的池、桶、槽、罐等的容器之中。特别适用于小口径(大于6CM便以)类的容器。

AFS系列脚踏开关 Foot Switch

特征 Characteristics

- 塑胶系列外壳
- 金属系列外壳
- Metal series shell
- Plastic series shell

接点型式 Contact way

共同端子

Carry the son together

常闭 Close

常开 Open



特性 Characteristics

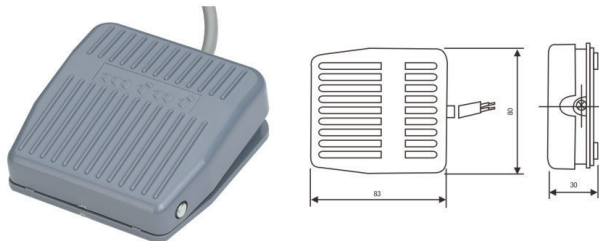
种类 Designation	型式 Model	负荷 Rating	微动开关形式 Type of switch enclosed & contact arrangement	电缆种类/长度 Cable type/length	接点 Contact	动作压力 Action force	外壳材质 Material of Rind
标准型 复归式 Standard type Momentary Action	AFS-101	10A 250VAC	进口V型微动开关 Micro-switch Momentary	0.75mm ² ,3C/0.5meter(米),1meter(米)~3meter(米)	1A1B	1.2kg	塑胶+铝合金 Plastic+Aluminum Cast
	AFS-102	15A 250VAC	AZX15GW22-B	0.75mm ² ,3C/1meter(米),1.5meter(米)~2meter(米)	1A1B	1.1kg	
	AFS-3	15A 250VAC	进口V型微动开关 Micro-switch Momentary	0.75mm ² ,3C/0.5meter(米),1meter(米)~3meter(米)	2A2B	1.2kg	
	AFS-3S	15A 250VAC	AZX15GW22-B	0.75mm ² ,3C/1meter(米),1meter(米)~3meter(米)	2A2B	1.1kg	
标准式 交替式 Standard type Alternate action	AFS-105	6A 250VAC	进口交替式开关 Importde alternative switch	0.75mm ² ,2C/1meter(米),1meter(米)~2meter(米)	PUSH NO PUSH OFF	2kg	
	AFS-106	6A 250VAC	日制交替式开关 Importde Micro- switch	0.75mm ² ,3C/1meter(米)	PUSH 1A PUSH 1B	1.5kg	
小型附 回定片 Mini foot switch Front end push	AFS-201	10A 250VAC	进口V型微动开关 Micro-switch Momentary	0.5mm ² ,3C/1meter(米)~3meter(米)	1A1B	0.7kg	塑胶 Plastic
	AFS-01	10A 250VAC		0.5mm ² ,3C/1meter(米)~3meter(米)	1A1B	0.7kg	铁壳 Iron
	AFS-1	10A 250VAC		0.5mm ² ,3C/1meter(米)~3meter(米)	1A1B	0.9kg	
护盖型 Protective guard foot switch	AFS-302	15A 250VAC	AZX15GW22-B	附电缆固定头, 不附电缆 Accessory: Cable gland (No cable)	1A1B	3.2kg	塑胶+铝合金 Plastic+Aluminum Cast
	AFS-305	6A 250VAC	进口交替式开关 Importde alternative switch		USH NO PUSH OFF	3.1kg	
	AFS-306	6A 250VAC	日制交替式开关 Importde Micro- switch		PUSH 1A PUSH 1B	3.5kg	
	AFS-502	15A 250VAC	AZX15GW22-B		1A1B	3.2kg	
	AFS-602	15A 250VAC	按钮弹簧式 Button spring type		2*1A1B	2.8kg	
	AFS-702	15A 250VAC	AZX15GW22-B		2*1A1B	3.2kg	
大型 Large type	AFS-402	15A 250VAC	AZX15GW22-B		1A1B	3.2kg	
	AFS-802	15A 250VAC	AZX15GW22-B		2*1A1B	3.2kg	

注: 1, AFS3, AFS4系列防水型专用时, 尾数加“R”。

NOTES: 1, Add “R” for waterproof, available in AFS3 & AFS4

外观和尺寸 External appearance size

○ AFS-201 202



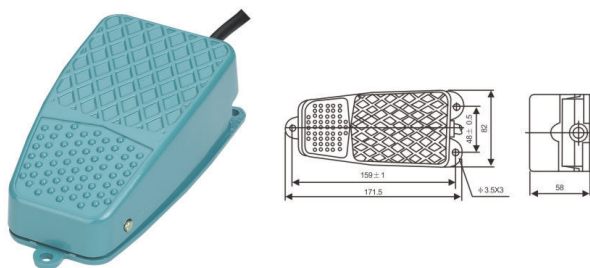
○ AFS-01



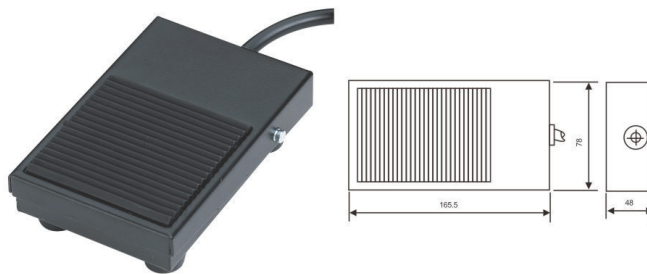
AFS系列脚踏开关 Foot Switch

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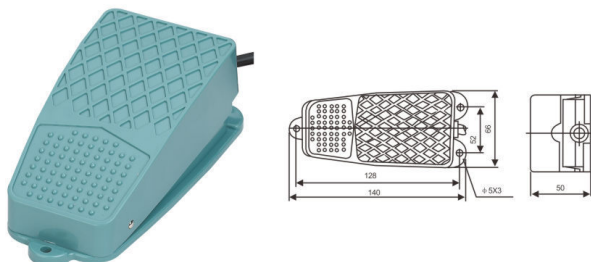
○ AFS-101 102 105



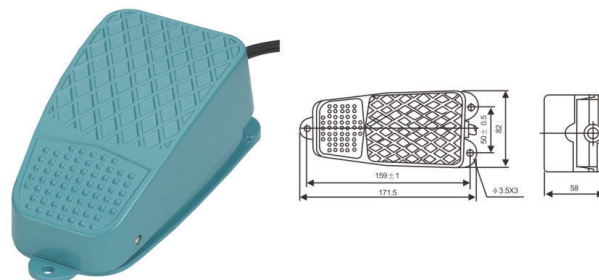
○ AFS-1



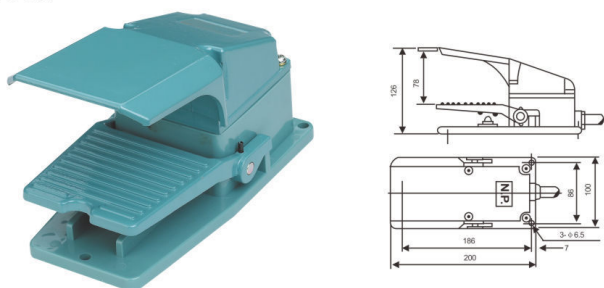
○ AFS-2



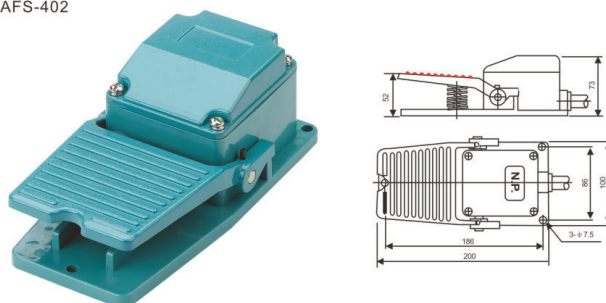
○ AFS-3 3S



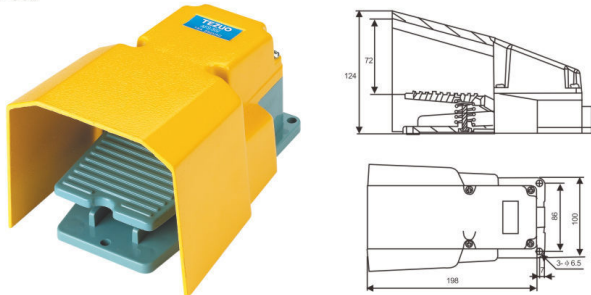
○ AFS-302



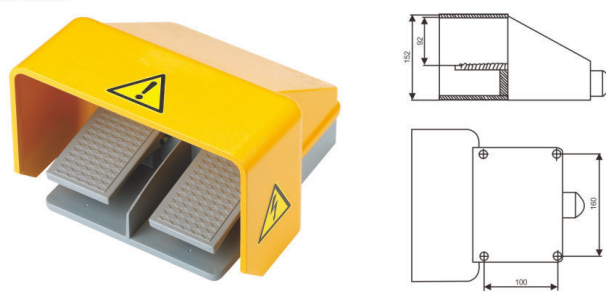
○ AFS-402



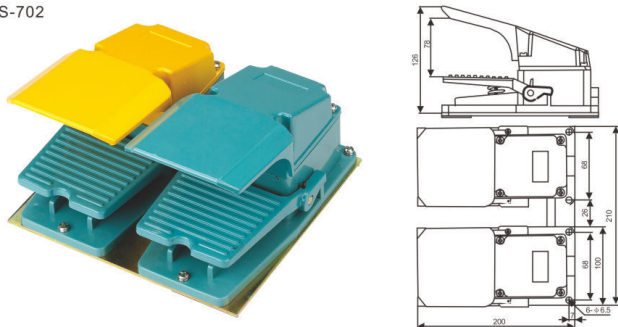
○ AFS-502



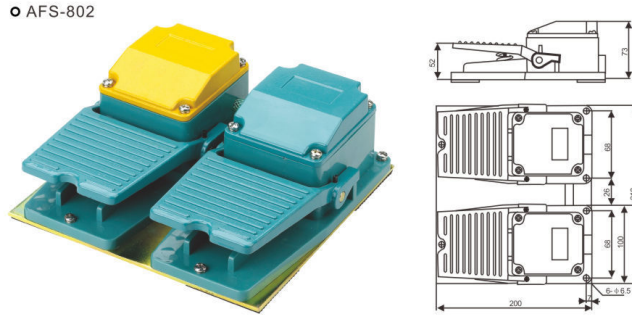
○ AFS-602



○ AFS-702



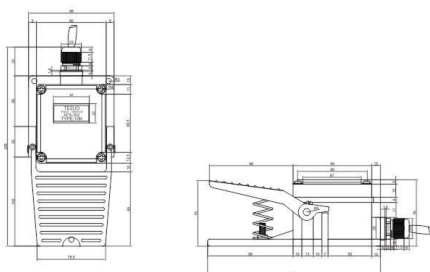
○ AFS-802



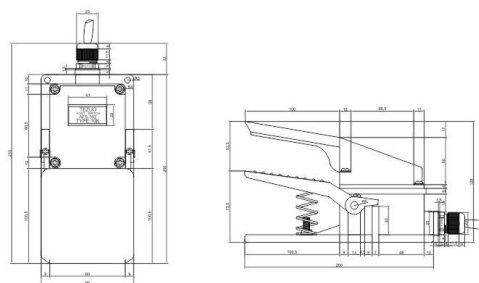
AFS系列调速脚踏开关 Speed control foot switch

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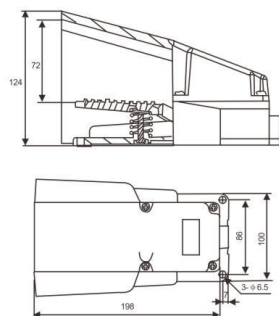
○ AFS-402(4.7K/10K)阻值可定制



○ AFS-302(4.7K/10K)阻值可定制



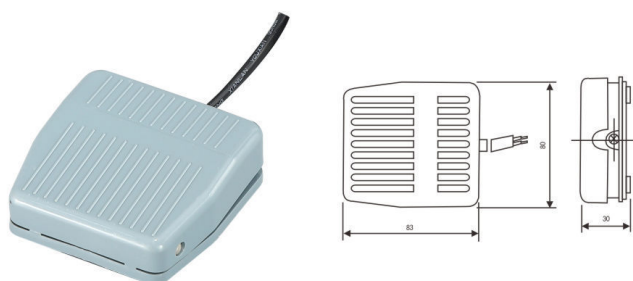
○ AFS-502(4.7K/10K)阻值可定制



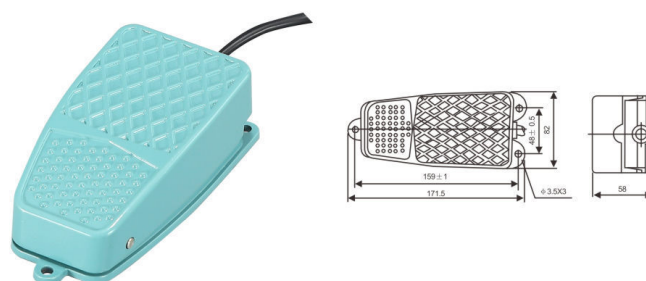
AFS系列USB脚踏开关(插电脑USB接口) USB foot switch

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○ AFS-201(灰色塑壳)



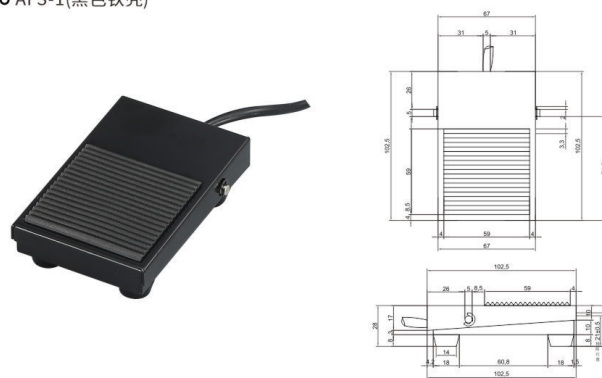
○ AFS-2(铝壳)



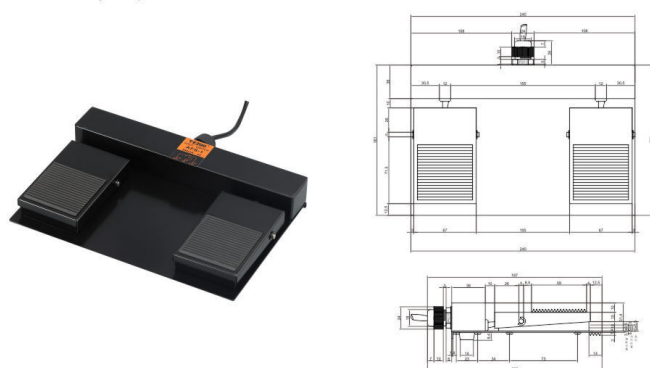
○ AFS-01(黑色塑壳)



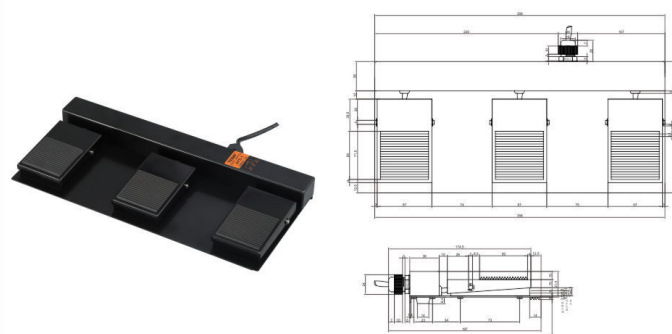
○ AFS-1(黑色铁壳)



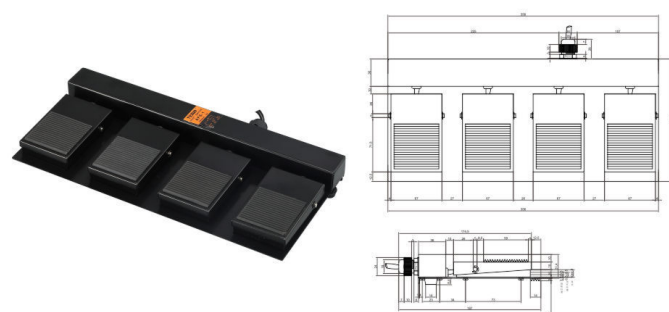
○ 双联踏板(铁壳)



○ 三联踏板(铁壳)



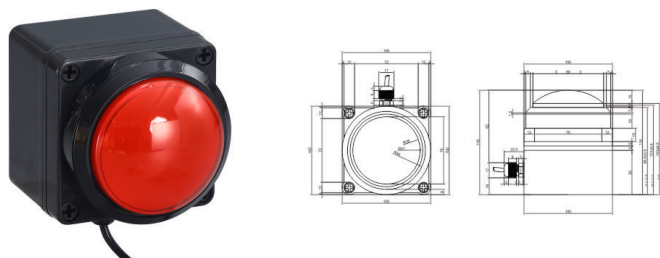
○ 四联踏板(铁壳)



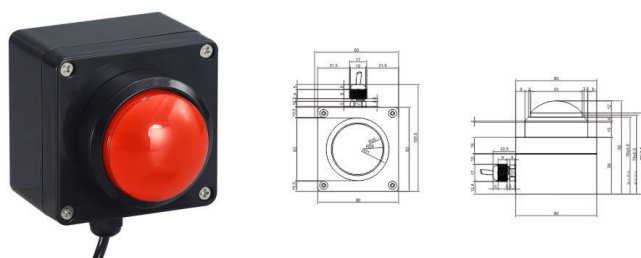
USB按钮灯(插电脑USB接口) Button light

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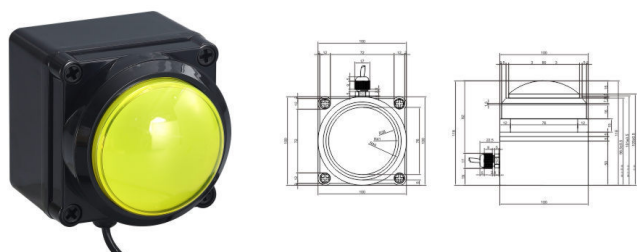
○ 100mm按钮盒(红灯)



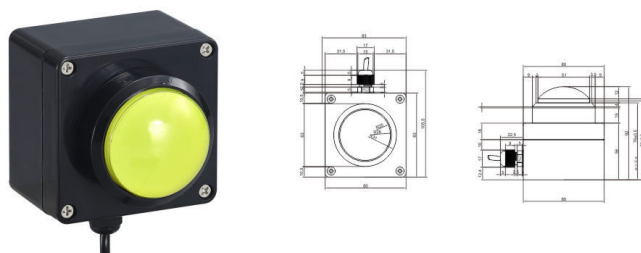
○ 60mm按钮盒(红灯)



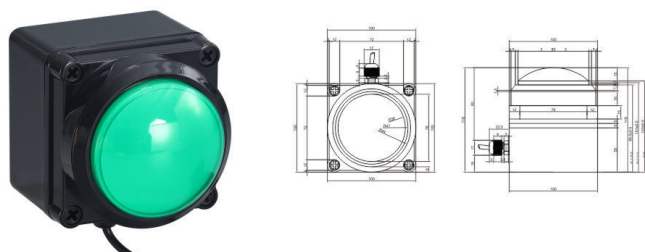
○ 100mm按钮盒(黄灯)



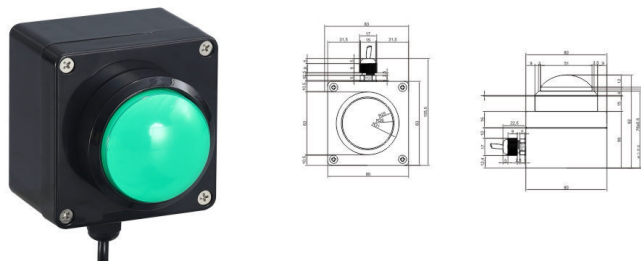
○ 60mm按钮盒(黄灯)



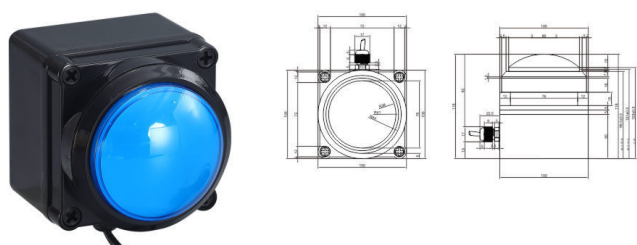
○ 100mm按钮盒(绿灯)



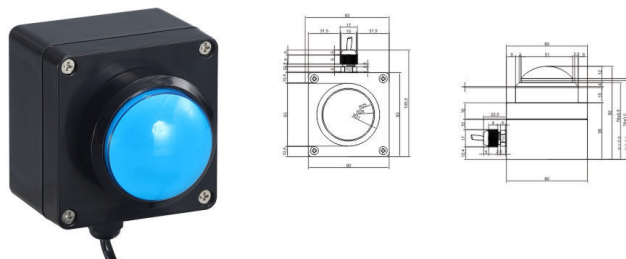
○ 60mm按钮盒(绿灯)



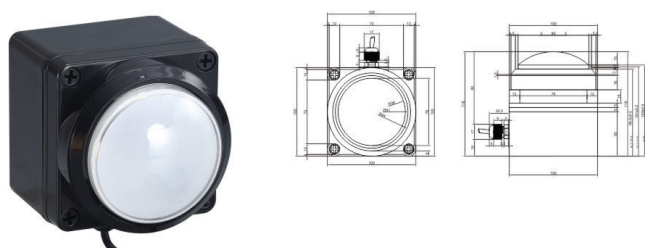
○ 100mm按钮盒(蓝灯)



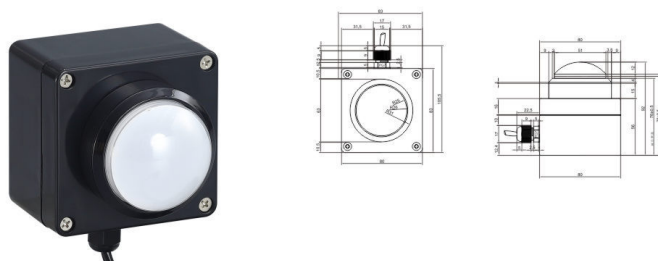
○ 60mm按钮盒(蓝灯)



○ 100mm按钮盒(白灯)



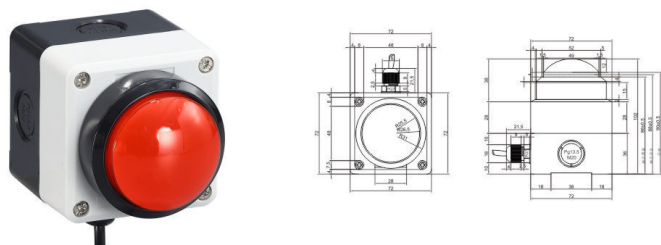
○ 60mm按钮盒(白灯)



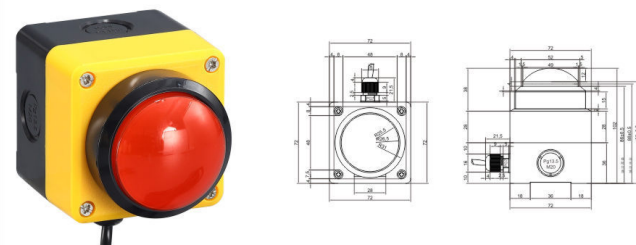
USB按钮灯(插电脑USB接口) Button light

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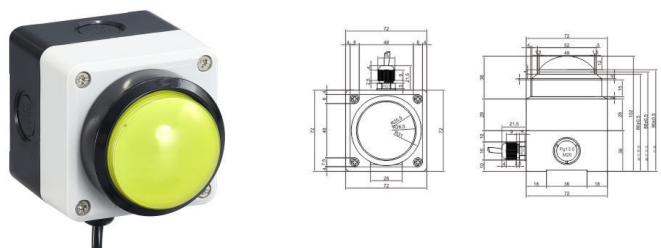
○ 60mm按钮灰盒(红灯)



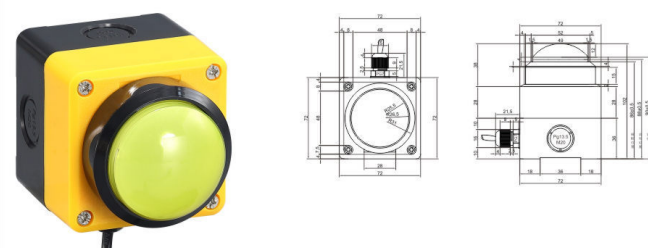
○ 60mm按钮橙盒(红灯)



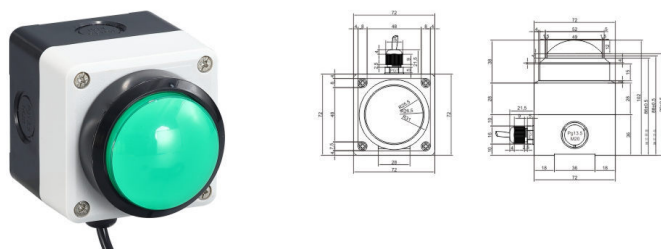
○ 60mm按钮灰盒(黄灯)



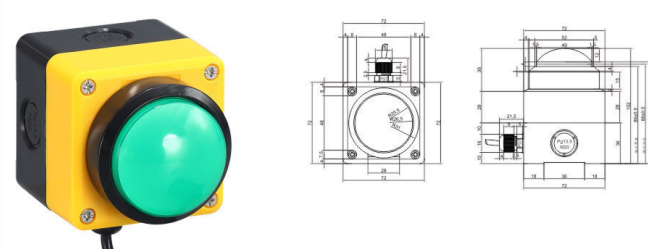
○ 60mm按钮橙盒(黄灯)



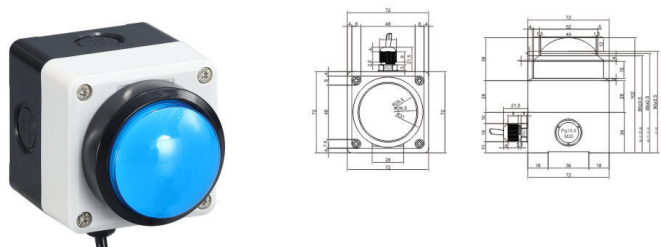
○ 60mm按钮灰盒(绿灯)



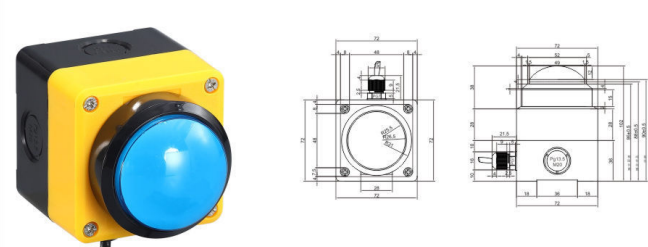
○ 60mm按钮橙盒(绿灯)



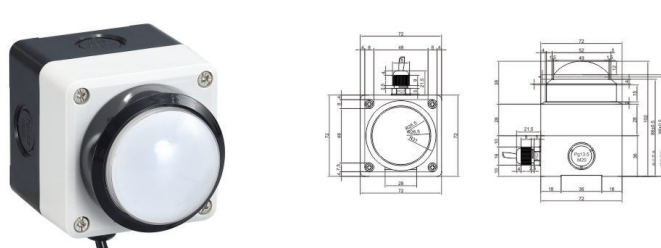
○ 60mm按钮灰盒(蓝灯)



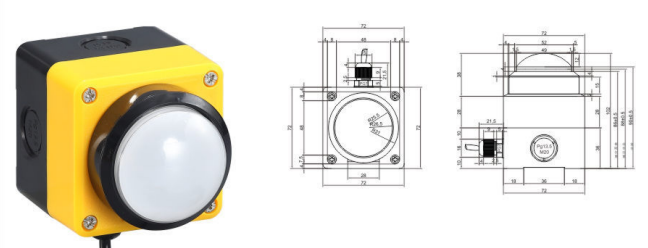
○ 60mm按钮橙盒(蓝灯)



○ 60mm按钮灰盒(白灯)



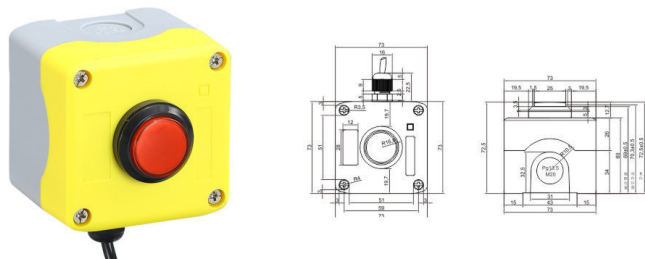
○ 60mm按钮橙盒(白灯)



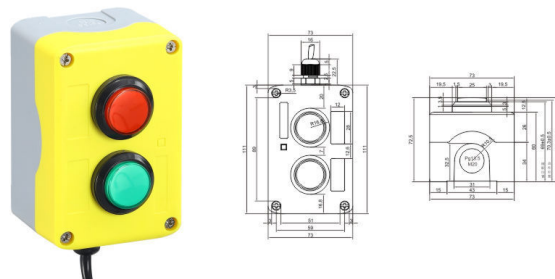
USB按钮灯(插电脑USB接口) Button light

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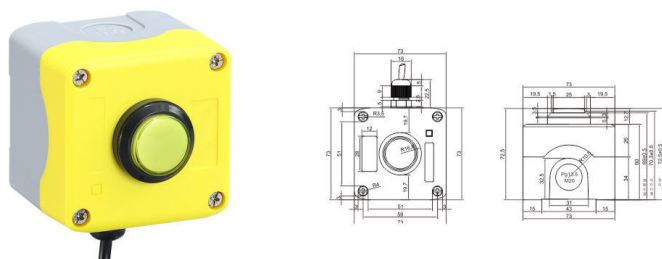
○ 33mm按钮黄盒(红灯)



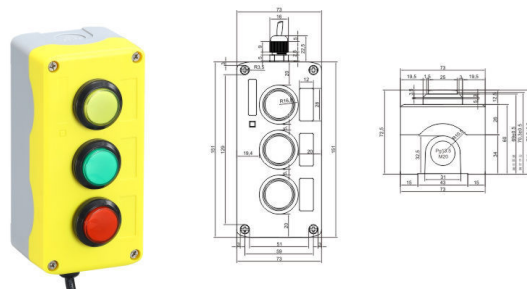
○ 33mm按钮黄盒(两灯)



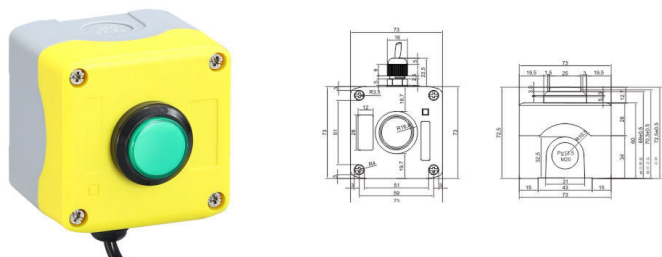
○ 33mm按钮黄盒(黄灯)



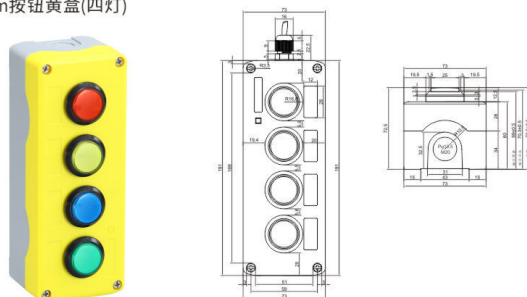
○ 33mm按钮黄盒(三灯)



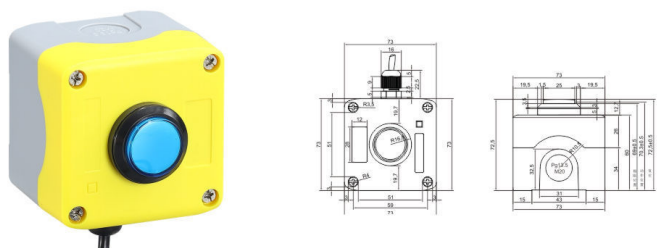
○ 33mm按钮黄盒(绿灯)



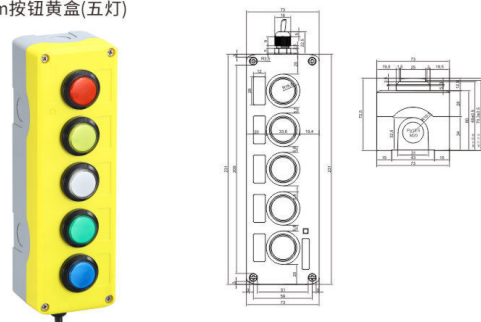
○ 33mm按钮黄盒(四灯)



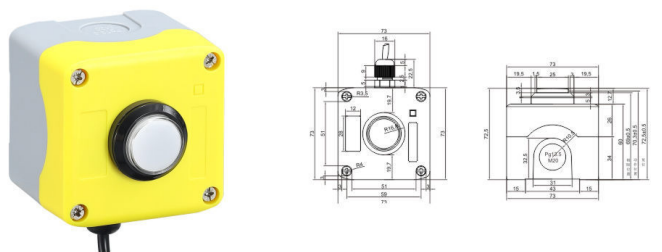
○ 33mm按钮黄盒(蓝灯)



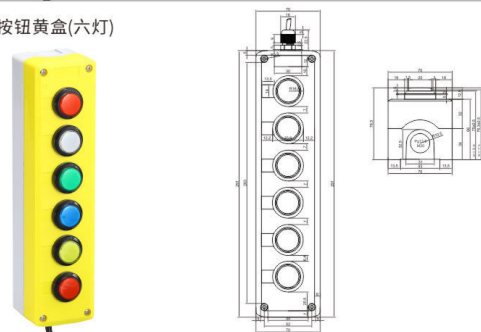
○ 33mm按钮黄盒(五灯)



○ 33mm按钮黄盒(白灯)



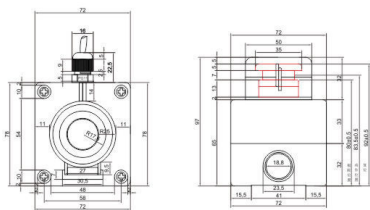
○ 33mm按钮黄盒(六灯)



USB按钮灯(插电脑USB接口) Button light

TEZUO 特佐 特佐电器

○ 防护罩按钮盒



○ 60mm按钮盒(两灯)



○ 80mm按钮盒(三灯)

