

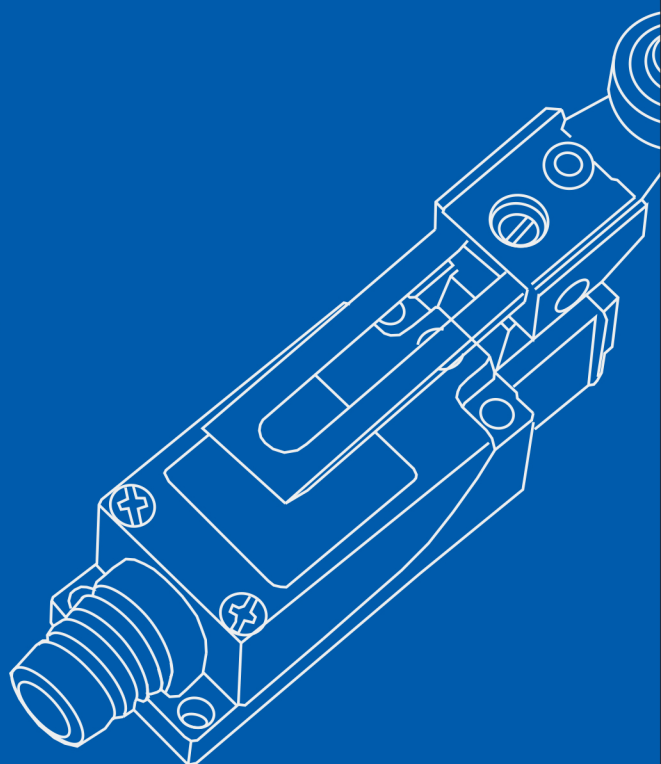
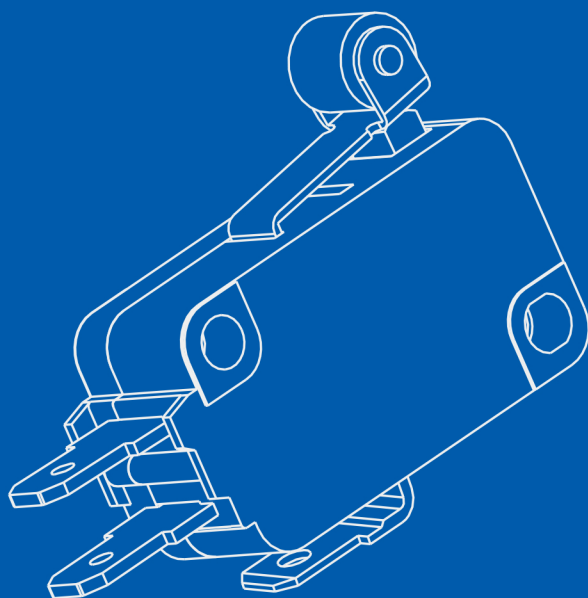


工控产品专业制造商
Professional Manufacture For Industrial Products
SINCE 2002

产品选型手册 PRODUCTS CATALOGUE

微动开关 / 行程开关 / 钮子开关 / 脚踏开关
干簧开关 / 水银开关

Micro Switch / Limit Switch / Toggle Switch / Foot Switch
Reed Switch / Mercury Switch



浙江旭瑞电子有限公司
ZHEJIANG XURUI ELECTRONIC CO.,LTD



旭瑞我们自己的品牌

专业致力于工控产品的研发生产销售

我们不断的追求

不懈的努力

创造新的目标

满足客户需要是我们一直的追求

.....



COMPANY PROFILE 企业简介

浙江旭瑞电子有限公司成立于2002年，是集研发、生产、销售与服务为一体的工控产品制造商，系浙江省电气行业协会副会长单位及国家高新技术企业。公司已荣获五十多项国家专利产品，四项发明专利产品。主要产品有微动开关、固态继电器、行程开关、脚踏开关、钮子开关、水银开关、干簧开关、接近开关等系列产品，“**XURUI**.”为国内工控行业中的知名品牌，在韩国、土耳其、埃及、意大利等都设有直属代理商及售后维护中心，公司已通过ISO9001质量体系认证，国内CCC认证，欧盟CE认证，德国TUV认证，美国UL认证，韩国KC认证，RoHS环保指令。

2002年：乐清市旭瑞电子有限公司公司成立；

2003年：公司通过ISO9001质量体系认证，XV-15系列微动开关通过国内CCC认证、欧盟CE认证；

2004年：XSS-5、XZ-15系列微动开关，XSSR系列固态继电器、XT系列钮子开关通过国内CCC认证、欧盟CE认证；

2006年：公司变更为温州旭瑞电子有限公司；

2008年：取得自主进出口经营权；

2010年：XV-15、XZ-15系列微动开关，XZ-8系列行程开关、XT系列钮子开关、XF系列脚踏开关通过美国UL认证；

2011年：公司变更为浙江旭瑞电子有限公司；XSS-5微动开关、XZ-9行程开关通过德国TUV认证；

2012年：XT系列钮子开关、XZ8系列行程开关、XF系列脚踏开关通过德国TUV认证；

2013年：XZ7系列行程开关通过德国TUV认证、国内CCC认证；

2014年：公司荣评浙江省科技创新型企业、“中国电器之都”十大创新型企业等；

2015年：公司荣评市企业技术研发中心、市名牌产品、市名牌商标、市专利示范企业、市成长型企业等；

2016年：公司荣评市经信先进单位、省高成长科技型企业，国家高新技术企业、XZ-15系列微动开关、XT系列钮子开关通过韩国KC认证；

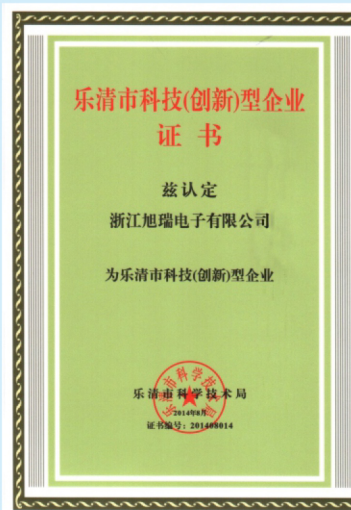
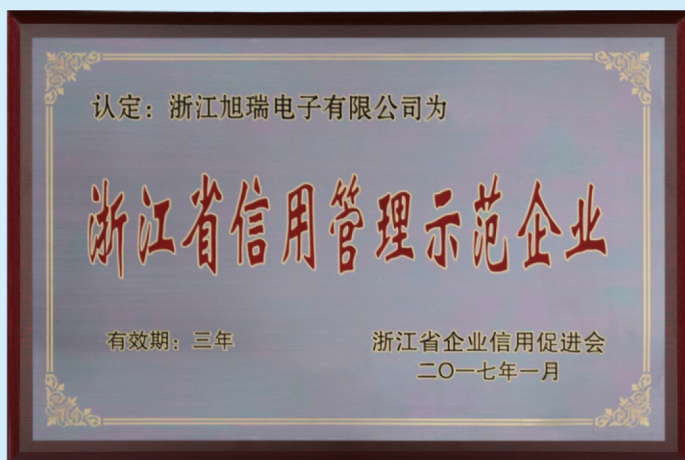
2017年：公司荣评浙江省信用管理示范企业；

本公司本着质量第一，客户至上的原则竭诚欢迎国内外客户来电来函，我们会以优质的服务让您满意，让我们携手，共创美好未来。

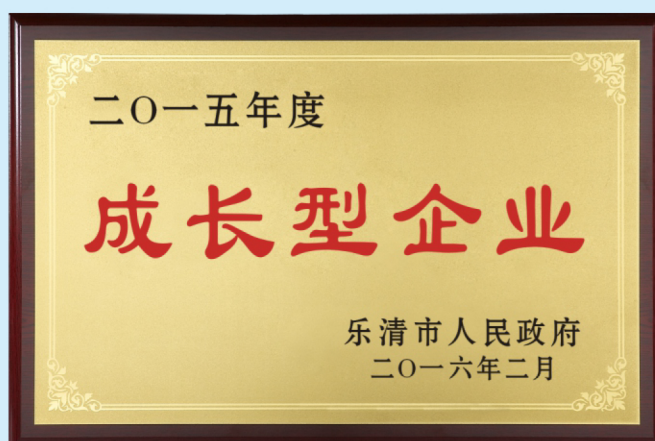
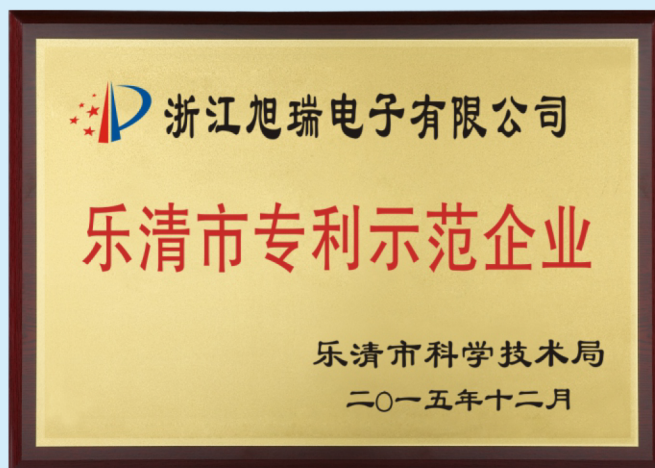
Zhejiang Xurui Electronics Co., Ltd Established in 2002, XURUI is the industrial products manufacturer including research and development, production, sales and service. Our company is vice president of Zhejiang Province Electric line Association, and also technology innovation enterprise in Zhejiang Province. We have won more than 50 kinds national patented products and four patents of invention. Our main product is micro switch, limit switch, foot switch, toggle switch, solid state relay, mercury switch, reed switch, proximity sensor and so on a series of electronic products. Our brand "**XURUI**." is famous among the domestic industrial control line. We have direct agent and after-sale service in Korea, Turkey, Egypt and Italy. Our company located in Beibaixiang Town, Yueqing City, nearby the state-level scenic spot-Yandang Mountain. it is 25 kilometers away from the Wenzhou airport and 2 kilometers away from railway station, the transportation is extremely convenient.

- 2002: Yueqing Xurui Electronic Co.,Ltd was founded
- 2003: Our company has passed ISO9001 Internation Quality System, Micro switch XV-15 series have obtained CCC and CE certifications.
- 2004: XSS-5, XZ-15 series microswitch, XSSR solid state relay, XT series toggle switch have got CCC, CE certificates.
- 2006: Our company changed the name is Wenzhou Xurui Electronic Co.,Ltd
- 2008: Xurui have our own export and import right, stated exported products directly from factory
- 2010: XV-15, XZ-15, XZ-8, XF, XT series have got UL approvals.
- 2011: Our company name was upgrade to Zhejiang Xurui Electronic Co.,Ltd. XSS-5 Micro switch and XZ-9 limit switch have passed TUV approval certification.
- 2012: XT toggle switch, XZ8 limit switch, XF foot switch got TUV certificate.
- 2013: XZ7 series limit switch have passed TUV anc CCC certificates.
- 2014: Our company named Zhejiang Science and technology innovation enterprise, China Electric innovative enterprises etc.
- 2015: Our company named Patent Model Enterprise, Technology R&D Center, Famous Products&Famous Brand etc.
- 2016: Our compay named city advance unit, province growing science and technology company, National High-tech Enterprise, Micro Switch XZ-15 series, Toggle Switch XT series have obtained Korea KC certificates.
- 2017: Zhejiang Credit Management Model Enterprise

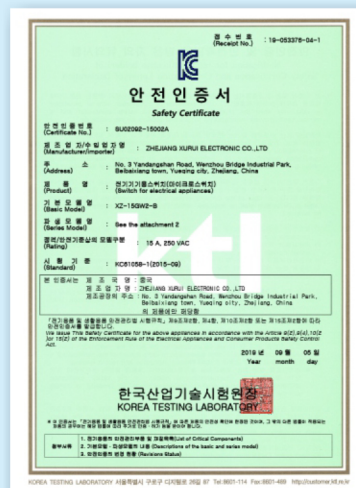
企业荣誉 ENTERPRISE HONOR



企业荣誉 ENTERPRISE HONOR



企业资质 CERTIFICATE



目录 CONTENTS



微动开关
Microswitch

P01-30



行程开关
Limit Switch

P31-64



钮子开关
Toggle Switch

P65-73



脚踏开关
Foot Switch

P74-80



干簧开关
Reed Switch

P81-84



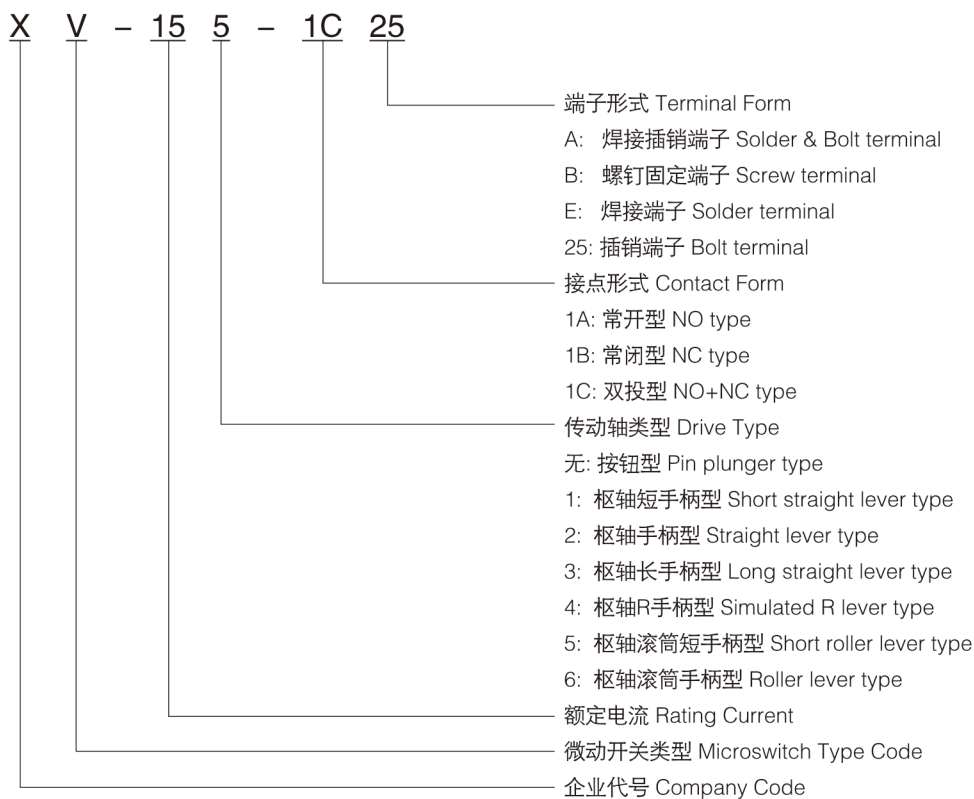
水银开关
Mercury Switch

P85-88

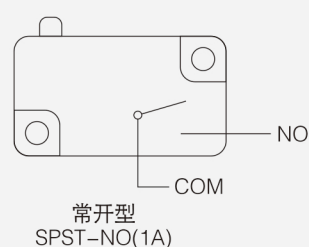
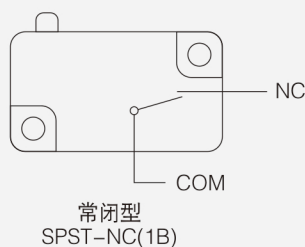
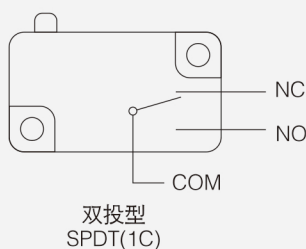
- 采用热塑性塑料外壳;
- 具有微小触点间隙, 动作快速、高灵敏和微小行程;
- 配备各种形式的驱动手柄;
- 广泛应用于各种家用电器、电子设备、自动化设备、通讯设备、汽车电子、仪器仪表等领域。
- Adopt thermosetting plastic or thermoplastic;
- Small contact gap, snap action, high sensitivity and small operating travel;
- Variety of levers;
- Widely used in appliance, electronic equipment ,automatic machine, communication equipment, car electric, apparatus and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings



□ 触点形式 Contact Forms



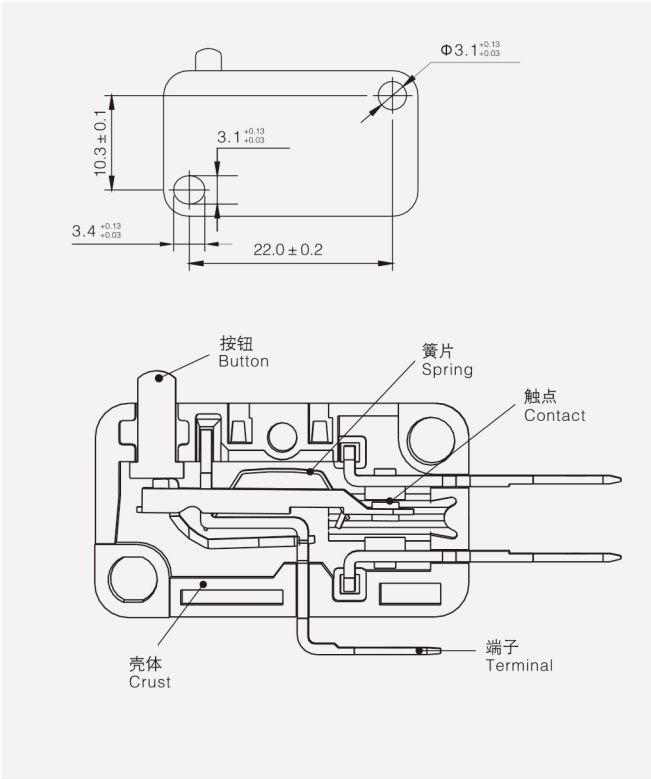
性能参数 Specification

项 目 Item	参数值 Data
操作速度 Operating speed	0.1mm-1m/s
操作频率 Operating frequency	机 械 Mechanical 600次/分 600times/min
	电 气 Electrical 30次/分 30times/min
绝缘电阻 Insulation resistance	100MΩ 以上(Above) DC500V
接触电阻 Contact resistance	25mΩ (初值 initial value)
介质耐压 Withstand voltage	非 连 线 Non-connection wire 1000VAC
	各端子间 Every terminal 1500VAC
振 动 Vibration	误 动 作 Misoperation 10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable 1000m/s ²
	误 动 作 Misoperation 300m/s ²
寿 命 Life	电 气 Electrical 100,000次以上 above
	机 械 Mechanical 1,000,000次以上 above
防护等级 Protection degree	IP40
使用温度 Operating temperature	-25~+80℃
使用湿度 Operating humidity	<85%

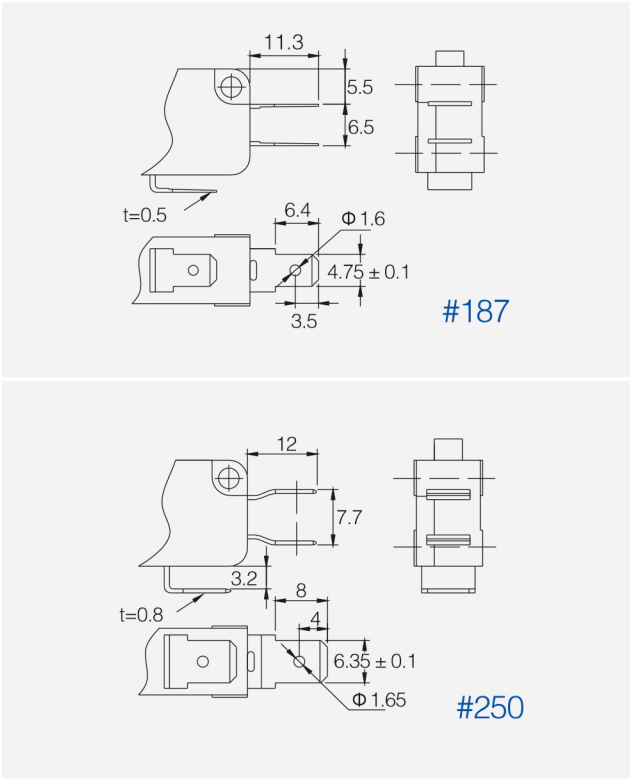
额定值 Rating

额定电压Ue(V)	额定电流Ie(A)	发热电流Ith(A)
AC-250	7.5	10
AC-125	15	20
DC-250	0.3	0.45
DC-125	0.6	0.75

安装孔尺寸及结构图 Mounting Hole Dimensions & Structure



端子类型 Terminal Forms

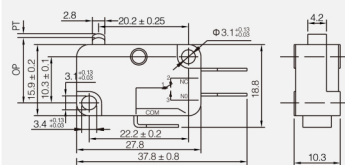


□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

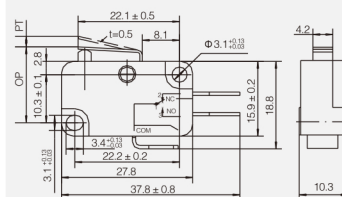
型号	Models	XV-15-1C25	XV-151-1C25	XV-152-1C25	XV-153-1C25	XV-154-1C25	XV-155-1C25	XV-156-1C25	XV-15-1B5	XV-15-1A25	XV-15-1B25
动作力	OF max.	200g(1.96N)	200g(1.96N)	125g(1.23N)	70g(0.69N)	125g(1.23N)	200g(1.96N)	125g(1.23N)	200g(1.96N)	200g(1.96N)	200g(1.96N)
回复力	RF min.	50g(0.49N)	50g(0.49N)	14g(0.14N)	6g(0.06N)	14g(0.14N)	50g(0.14N)	14g(0.14N)	50g(0.49N)	50g(0.49N)	50g(0.49N)
预行程	PT max.	1.2mm	1.2mm	2.8mm	6.0mm	2.8mm	1.2mm	3.0mm	1.2mm	1.2mm	1.2mm
超行程	OT min.	0.6mm	0.6mm	1.0mm	2.6mm	1.0mm	0.8mm	1.2mm	0.6mm	0.6mm	0.6mm
差行程	MD max.	0.3mm	0.5mm	0.8mm	2.0mm	0.8mm	0.5mm	0.8mm	0.3mm	0.3mm	0.3mm
动作位置	OP	14.7 ± 0.5mm	15.2 ± 0.5mm	15.2 ± 1.2mm	15.2 ± 2.6mm	18.3 ± 1.2mm	20.5 ± 0.6mm	20.5 ± 1.2mm	14.7 ± 0.5mm	14.7 ± 0.5mm	14.7 ± 0.5mm

型号	Models	XV-15-VAL2-A	XV-15-VAL2-B	XV-15-VAL2-C	XV-15-VAL2-D	DS438	DS448	XV-15-F6A
动作力	OF max.	200g(1.96N)	200g(1.96N)	400g(3.92N)	200g(1.96N)	200g(1.96N)	400g(3.92N)	125g(1.23N)
回复力	RF min.	80g(0.78N)	50g(0.49N)	80g(0.78N)	50g(0.49N)	50g(0.49N)	80g(0.78N)	14g(0.14N)
预行程	PT max.	1.4mm	1.2mm	1.2mm	1.28mm	1.2mm	1.2mm	2.8mm
超行程	OT min.	0.8mm	0.6mm	0.6mm	0.6mm	0.6mm	0.6mm	1.0mm
差行程	MD max.	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm	0.8mm
动作位置	OP	20.5 ± 0.6mm	21.3 ± 0.4mm	21.3 ± 0.4mm	7.3 ± 0.5mm	21.3 ± 0.4mm	21.3 ± 0.4mm	15.2 ± 0.6mm

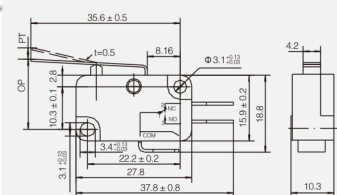
• 按钮型
XV-15-1C25



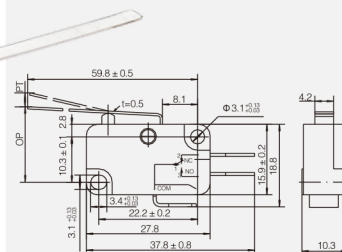
• 枢轴短手柄型
XV-151-1C25



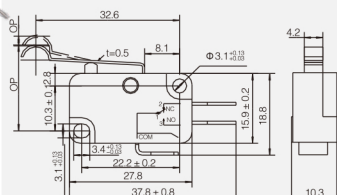
• 枢轴手柄型
XV-152-1C25



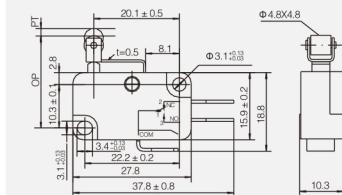
• 枢轴长手柄型
XV-153-1C25



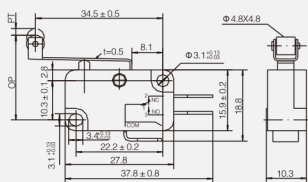
• 枢轴R手柄型
XV-154-1C25



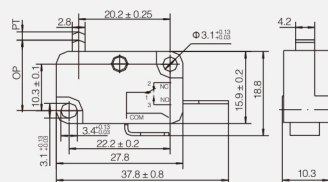
• 枢轴滚轮短手柄型
XV-155-1C25



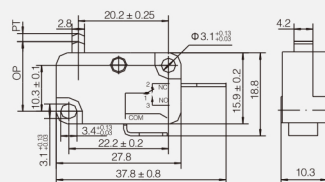
• 枢轴滚轮手柄型
XV-156-1C25



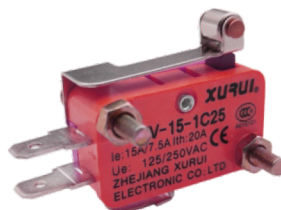
• 常开型
XV-15-1A25



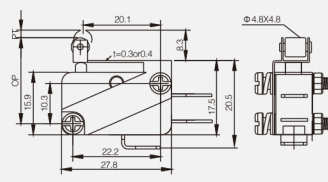
• 常闭型
XV-15-1B25



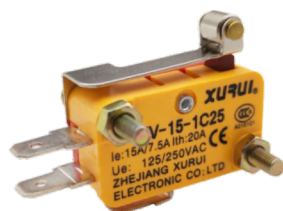
• 枢轴外装滚轮手柄型 (不锈钢)
XV-15-VAL2-A



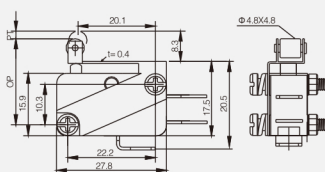
可配#250端子
或做1A、1B型



• 枢轴外装滚筒手柄型 (铜)
XV-15-VAL2-B



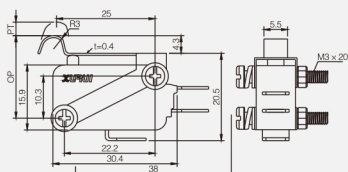
可配#250端子
或做1A、1B型



• 枢轴外装R手柄型 (双边)
XV-15-VAL2-C



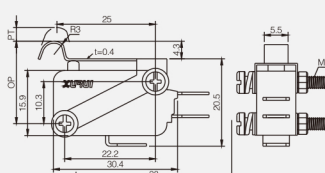
可配#250端子
或做1A、1B型



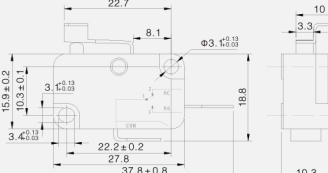
• 枢轴外装R手柄型 (单边)
XV-15-VAL2-D



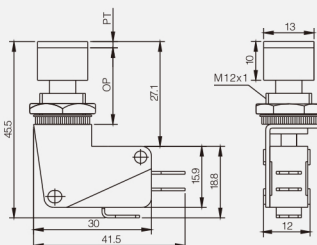
可配#250端子
或做1A、1B型



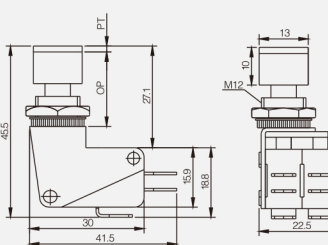
• 枢轴L手柄型
XV-15-F6A-2



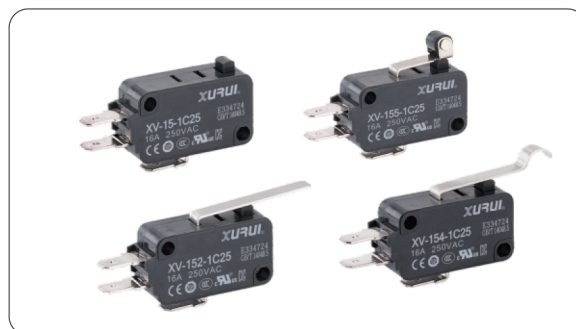
• 按键型
DS438



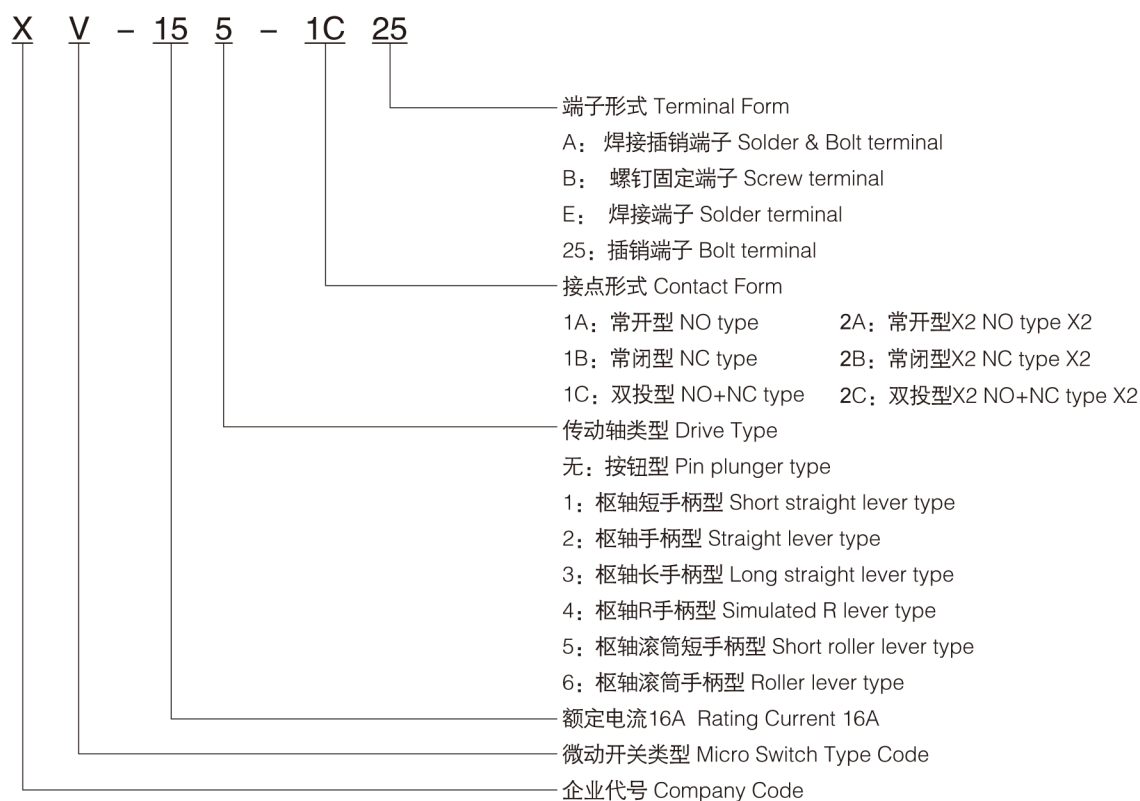
• 按键型
DS448



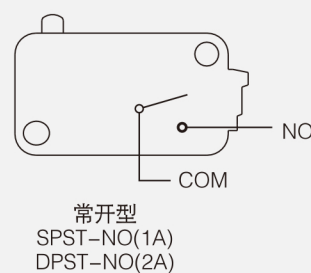
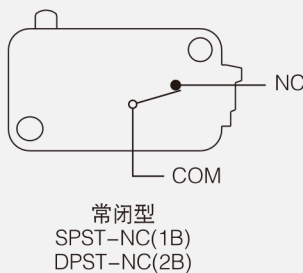
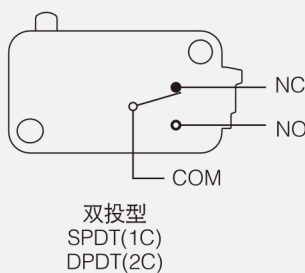
- 采用热塑性塑料外壳;
- 具有微小触点间隙, 动作快速、高灵敏和微小行程;
- 配备各种形式的驱动手柄;
- 广泛应用于各种家用电器、电子设备、自动化设备、通讯设备、汽车电子、仪器仪表等领域。
- Adopt thermosetting plastic or thermoplastic;
- Small contact gap, snap action, high sensitivity and small operating travel;
- Variety of levers;
- Widely used in appliance, electronic equipment ,automatic machine, communication equipment, car electric, apparatus and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings



□ 触点形式 Contact Forms



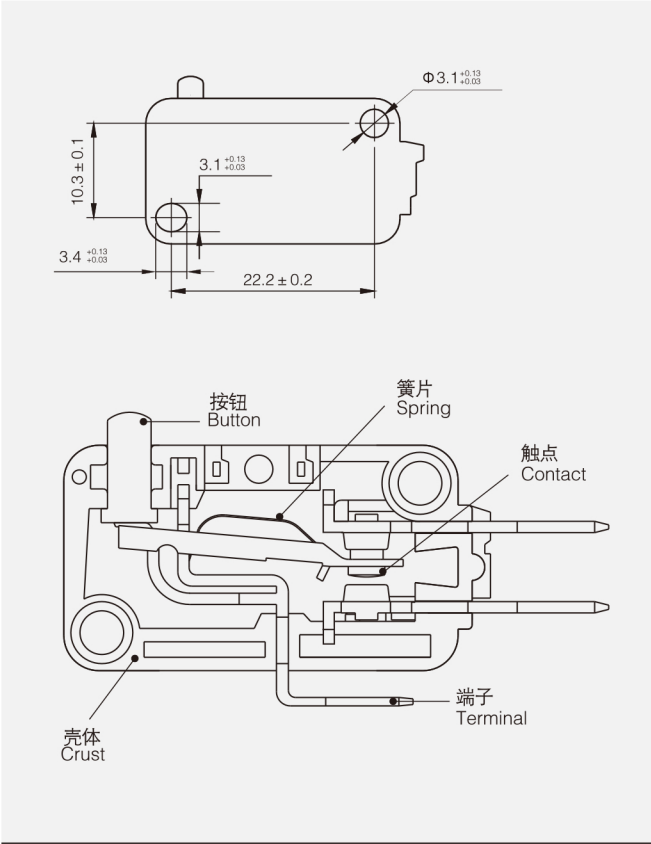
性能参数 Specification

项 目 Item	参数值 Data	
操作速度 Operating speed	0.1mm-1m/s	
操作频率 Operating frequency	机 械 Mechanical	600次/分 600times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100MΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ (初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP40	
使用温度 Operating temperature	-25~+80℃	
使用湿度 Operating humidity	<85%	

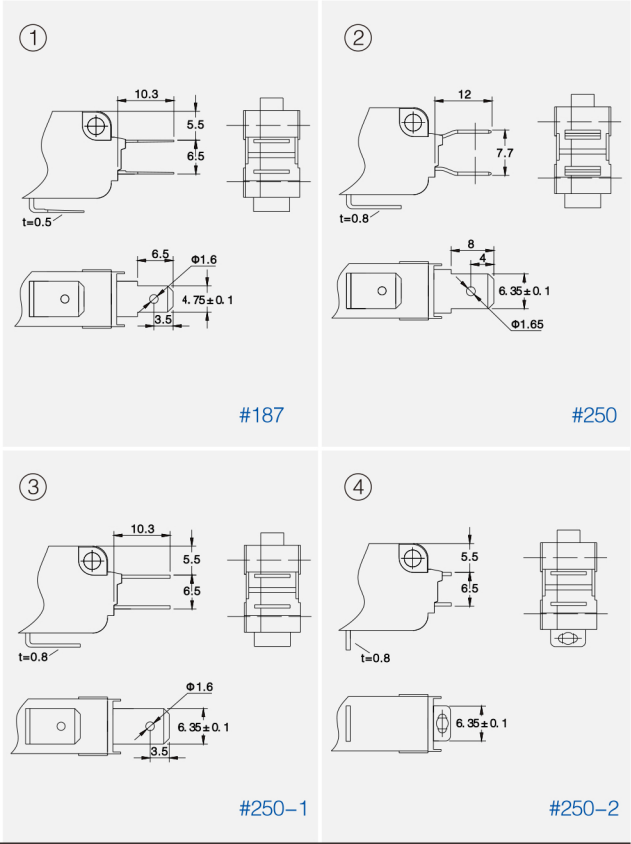
额定值 Rating

额定电压Ue(V)	额定电流Ie(A)	发热电流Ith(A)
AC-250	16	20
AC-250	20	25

安装孔尺寸及结构图 Mounting Hole Dimensions & Structure



端子类型 Terminal Forms

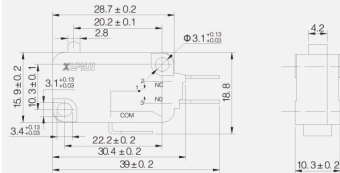


□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

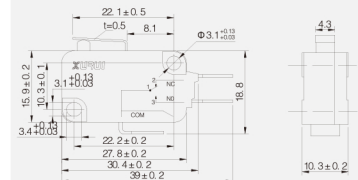
型号	Models	XV-15-1C25	XV-151-1C25	XV-152-1C25	XV-153-1C25	XV-154-1C25	XV-155-1C25	XV-156-1C25	XV-15-1B5	XV-15-1A25	XV-15-1B25
动作力	OF max.	200g(1.96N)	200g(1.96N)	125g(1.23N)	70g(0.69N)	125g(1.23N)	200g(1.96N)	125g(1.23N)	200g(1.96N)	200g(1.96N)	200g(1.96N)
回复力	RF min.	50g(0.49N)	50g(0.49N)	14g(0.14N)	6g(0.06N)	14g(0.14N)	50g(0.49N)	14g(0.14N)	50g(0.49N)	50g(0.49N)	50g(0.49N)
预行程	PT max.	1.2mm	1.2mm	2.8mm	6.0mm	2.8mm	1.2mm	3.0mm	1.2mm	1.2mm	1.2mm
超行程	OT min.	0.6mm	0.6mm	1.0mm	2.6mm	1.0mm	0.8mm	1.2mm	0.6mm	0.6mm	0.6mm
差行程	MD max.	0.3mm	0.5mm	0.8mm	2.0mm	0.8mm	0.5mm	0.8mm	0.3mm	0.3mm	0.3mm
动作位置	OP	14.7 ± 0.5mm	15.2 ± 0.5mm	15.2 ± 1.2mm	15.2 ± 2.6mm	18.3 ± 1.2mm	20.5 ± 0.6mm	20.5 ± 1.2mm	14.7 ± 0.5mm	14.7 ± 0.5mm	14.7 ± 0.5mm

型号	Models	XV-15-2C25	XV-152-2C25	XV-155-2C25	XV-156-2C25
动作力	OF max.	400g(3.92N)	200g(1.96N)	400g(3.92N)	250g(2.45N)
回复力	RF min.	80g(0.78N)	50g(0.49N)	80g(0.78N)	60g(0.59N)
预行程	PT max.	1.2mm	3.0mm	1.2mm	2.8mm
超行程	OT min.	0.6mm	0.8mm	0.6mm	1.6mm
差行程	MD max.	0.5mm	1.8mm	0.5mm	1.6mm
动作位置	OP	14.7 ± 0.4mm	15.6 ± 0.8mm	21.3 ± 0.6mm	22.6 ± 1.2mm

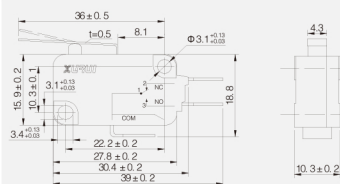
• 按钮型
XV-15-1C25



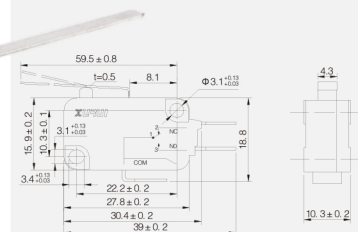
• 枢轴短手柄型
XV-151-1C25



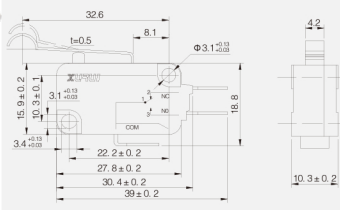
• 枢轴手柄型
XV-152-1C25



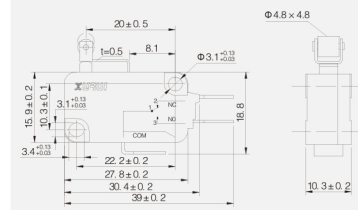
• 枢轴长手柄型
XV-153-1C25



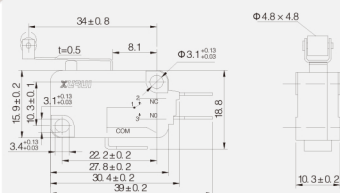
• 枢轴R手柄型
XV-154-1C25



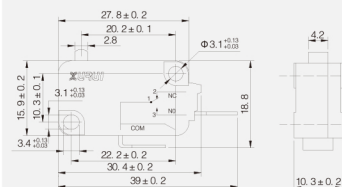
• 枢轴滚筒短手柄型
XV-155-1C25



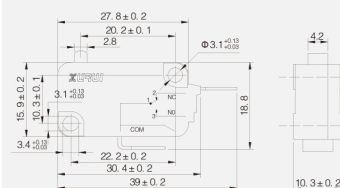
• 枢轴滚筒手柄型
XV-156-1C25



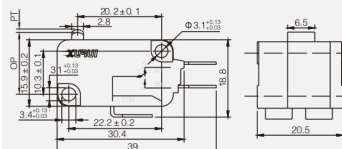
• 常开型
XV-15-1A25



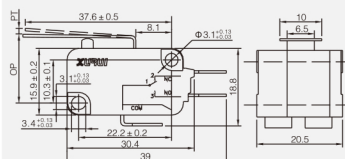
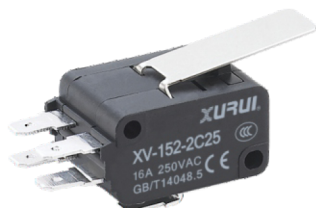
• 常闭型
XV-15-1B25



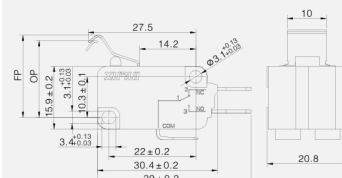
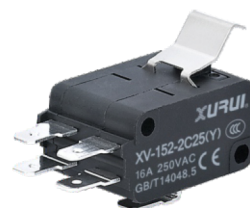
• 组合按钮型
XV-15-2C25



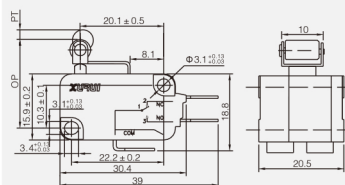
• 组合枢轴手柄型
XV-152-2C25



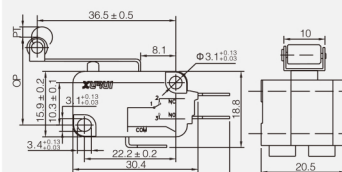
• 组合枢轴手柄型
XV-152-2C25(Y)



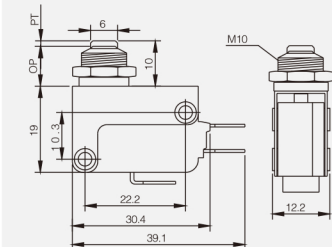
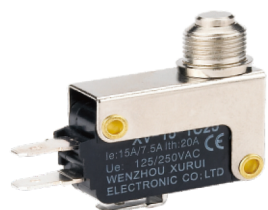
• 组合滚轮短手柄型
XV-155-2C25



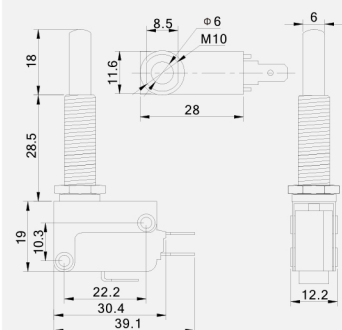
• 组合枢轴滚筒手柄型
XV-156-2C25



• 按钮型
DS438X



• 按钮型
DS438X-2



- 采用热固性或热塑性塑料外壳；
- 具有微小触点间隙，动作快速、高灵敏和微小行程；
- 配备各种形式的驱动手柄；
- 广泛应用于各种家用电器、电子设备、自动化设备、通讯设备、汽车电子、仪器仪表等领域。
- Adopt thermosetting plastic or thermoplastic;
- Small contact gap, snap action, high sensitivity and small operating travel;
- Variety of levers;
- Widely used in appliance, electronic equipment ,automatic machine, communication equipment, car electric, apparatus and instrument, electro motion tool etc.

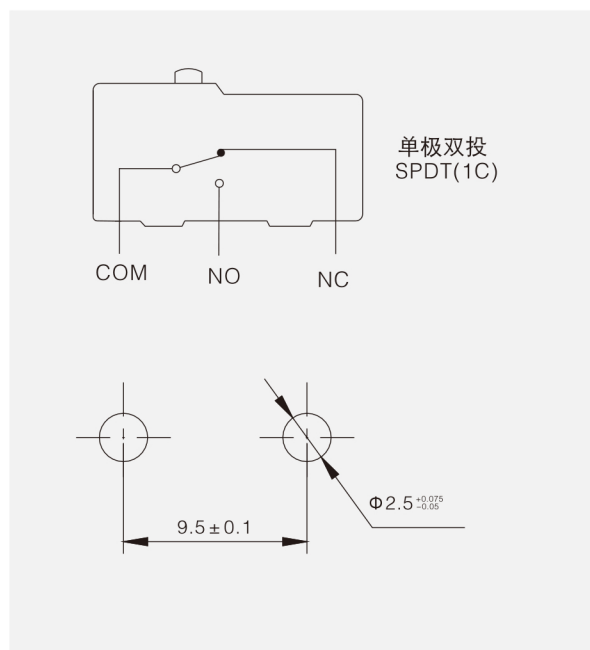


□型号含义 Model & Meanings

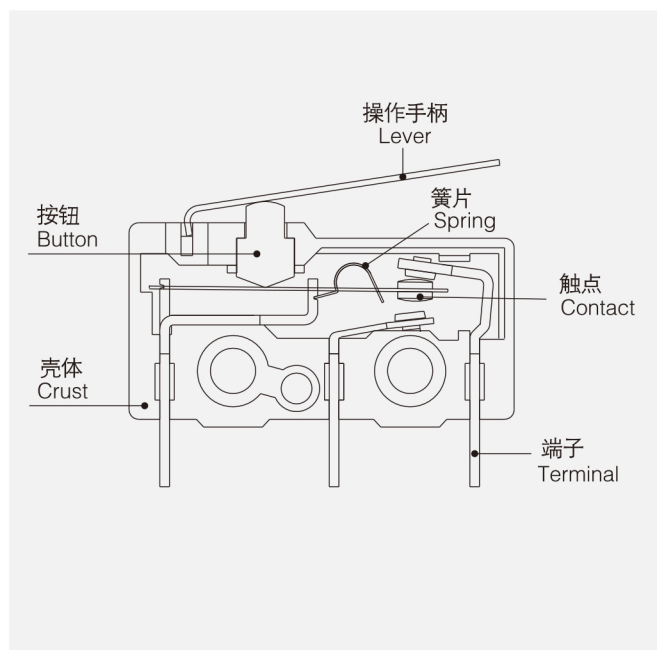
X SS - 5 GL2



□触点形式及安装孔尺寸 Contact Form



□产品结构图 Product Structure



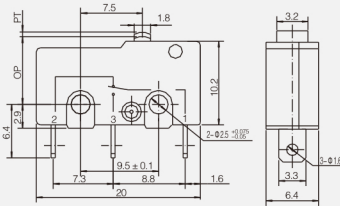
性能参数 Specification

项 目 Item		参数值 Data
额定负荷 Rating load		5A/125VAC,3A/250VAC
操作速度 Operation speed		0.1mm-1m/s
操作频率 Operation frequency	机 械 Mechanical	400次/分 400times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance		100mΩ 以上(Above) DC500V
接触电阻 Contact resistance		30mΩ 初值 initial value)
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree		IP40
使用温度 Operating temperature		-25~+80℃
使用湿度 Operating humidity		<85%

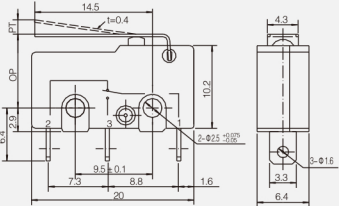
外形尺寸/动作特性 Dimensions/Operating Characteristics

型号 Models	XSS-5	XSS-5GL	XSS-5GL-2	XSS-5GL-3	XSS-5GL2	XSS-5GL13	XSS-5GL13-2	XSS-5GL14	DS428
动作力 OF max.	160g(1.57N)	70g(0.7N)	90g(0.9N)	20g(0.2N)	70g(0.7N)	70g(0.7N)	70g(0.7N)	80g(0.78N)	160g(1.57N)
回复力 RF min.	25g(0.25N)	10g(0.1N)	14g(0.14N)	5g(0.05N)	10g(0.1N)	10g(0.1N)	10g(0.1N)	10g(0.1N)	25g(0.25N)
预行程 PT max.	0.6mm	2.2mm	1.6mm	4.0mm	2.6mm	2.8mm	2.0mm	2.2mm	0.6mm
超行程 OT min.	0.5mm	0.5mm	0.8mm	0.6mm	0.8mm	0.8mm	0.8mm	1.6mm	0.5mm
差行程 MD max.	0.3mm	0.5mm	0.5mm	0.6mm	0.8mm	0.8mm	0.8mm	0.4mm	0.3mm
动作位置 OP	8.4±0.5mm	8.8±0.6mm	15.2±0.5mm	9.0±1.2mm	14.5±0.5mm	10.1±0.6mm	12.5±0.6mm	25.1±0.8mm	14.7±0.4mm

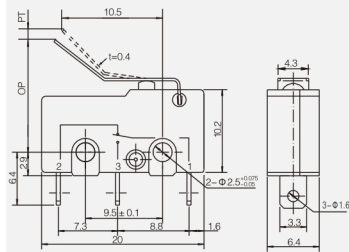
· 按钮型
XSS-5



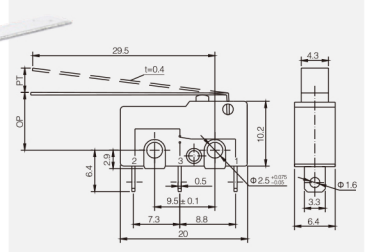
· 枢轴手柄型
XSS-5GL



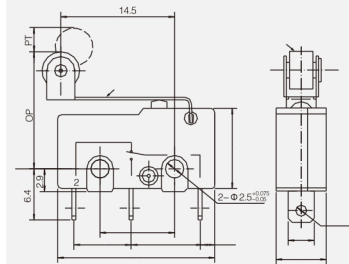
• 枢轴手柄型
XSS-5GL-2



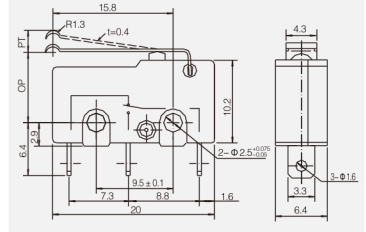
• 枢轴手柄型
XSS-5GL-3



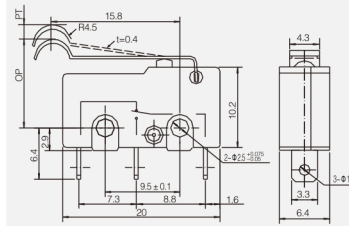
• 枢轴滚筒手柄型
XSS-5GL2



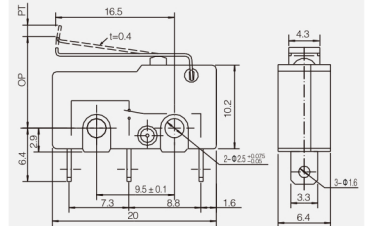
• 枢轴R手柄型
XSS-5GL13



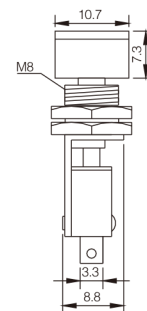
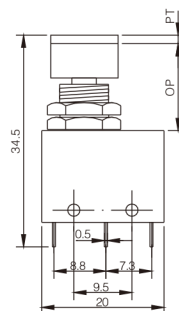
• 枢轴R手柄型
XSS-5GL13-2



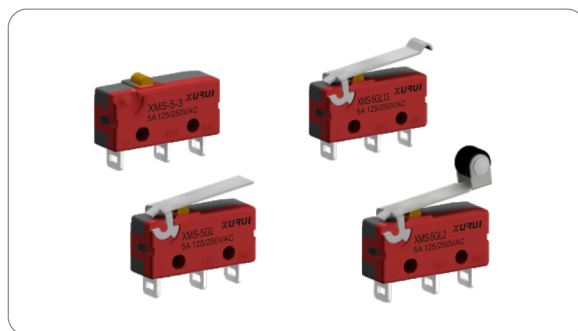
• 枢轴刃形手柄型
XSS-5GL14



• 按键型
DS428



- 采用热固性或热塑性塑料外壳；
- 具有微小触点间隙，动作快速、高灵敏和微小行程；
- 配备各种形式的驱动手柄；
- 广泛应用于各种家用电器、电子设备、自动化设备、通讯设备、汽车电子、仪器仪表等领域。
- Adopt thermosetting plastic or thermoplastic;
- Small contact gap, snap action, high sensitivity and small operating travel;
- Variety of levers;
- Widely used in appliance, electronic equipment ,automatic machine, communication equipment, car electric, apparatus and instrument, electro motion tool etc.

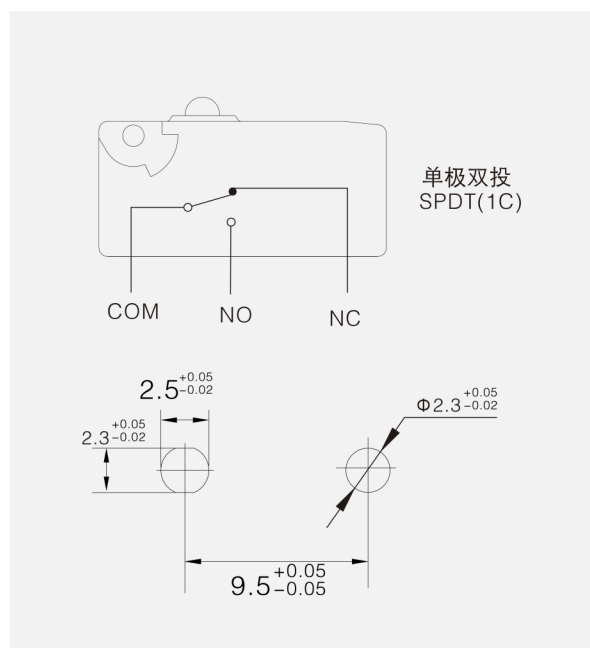


□型号含义 Model & Meanings

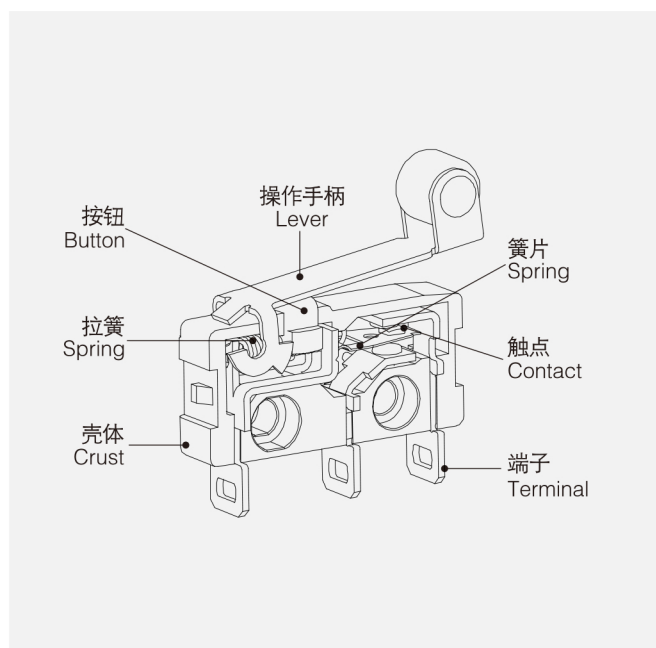
X MS-5 GL2



□触点形式及安装孔尺寸 Contact Form



□产品结构图 Product Structure



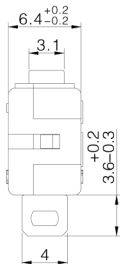
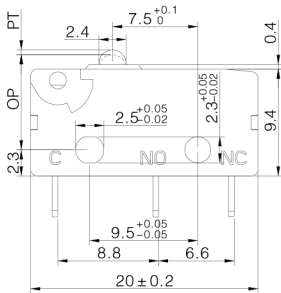
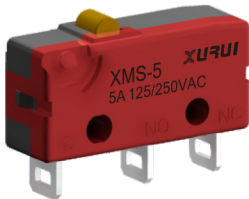
性能参数 Specification

项 目 Item		参数值 Data
额定负荷 Rating load		5A 125/250VAC
操作速度 Operation speed		0.1mm-1m/s
操作频率 Operation frequency	机 械 Mechanical	400次/分 400times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance		100mΩ 以上(Above) DC500V
接触电阻 Contact resistance		30mΩ 初值 initial value)
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree		IP40
使用温度 Operating temperature		-25~+80℃
使用湿度 Operating humidity		<85%

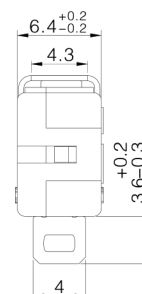
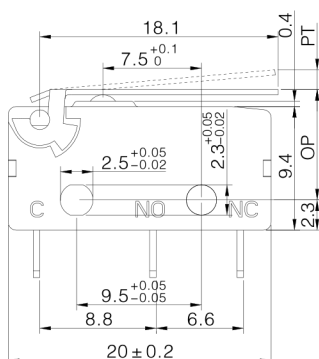
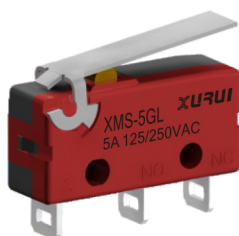
外形尺寸/动作特性 Dimensions/Operating Characteristics

型号 Models	XMS-5	XMS-5GL	XMS-5GL2	XMS-5GL13
动作力 OF max.	180g(1.76N)	80g(0.78N)	80g(0.78N)	80g(0.78N)
回复力 RF min.	30g(0.29N)	10g(0.1N)	10g(0.1N)	10g(0.1N)
预行程 PT max.	0.5mm	2.2mm	2.6mm	2.8mm
超行程 OT min.	0.4mm	0.4mm	0.6mm	0.6mm
差行程 MD max.	0.15mm	0.4mm	0.5mm	0.5mm
动作位置 OP	8.4±0.2mm	8.8±0.6mm	14.5±0.5mm	10.1±0.6mm

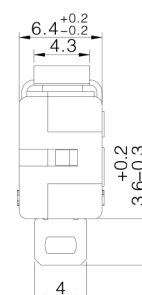
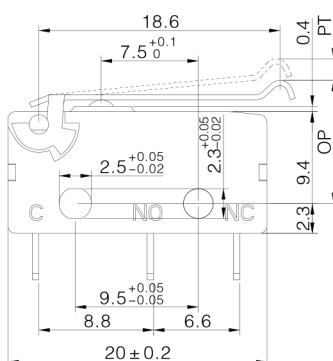
· 按钮型
XMS-5



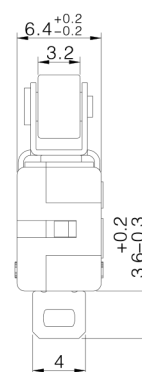
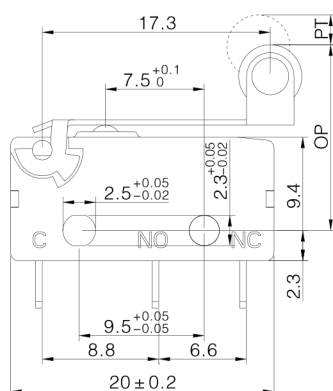
· 枢轴手柄型
XMS-5GL



· 枢轴滚筒手柄型
XMS-5GL2



· 枢轴R手柄型
XMS-5GL13

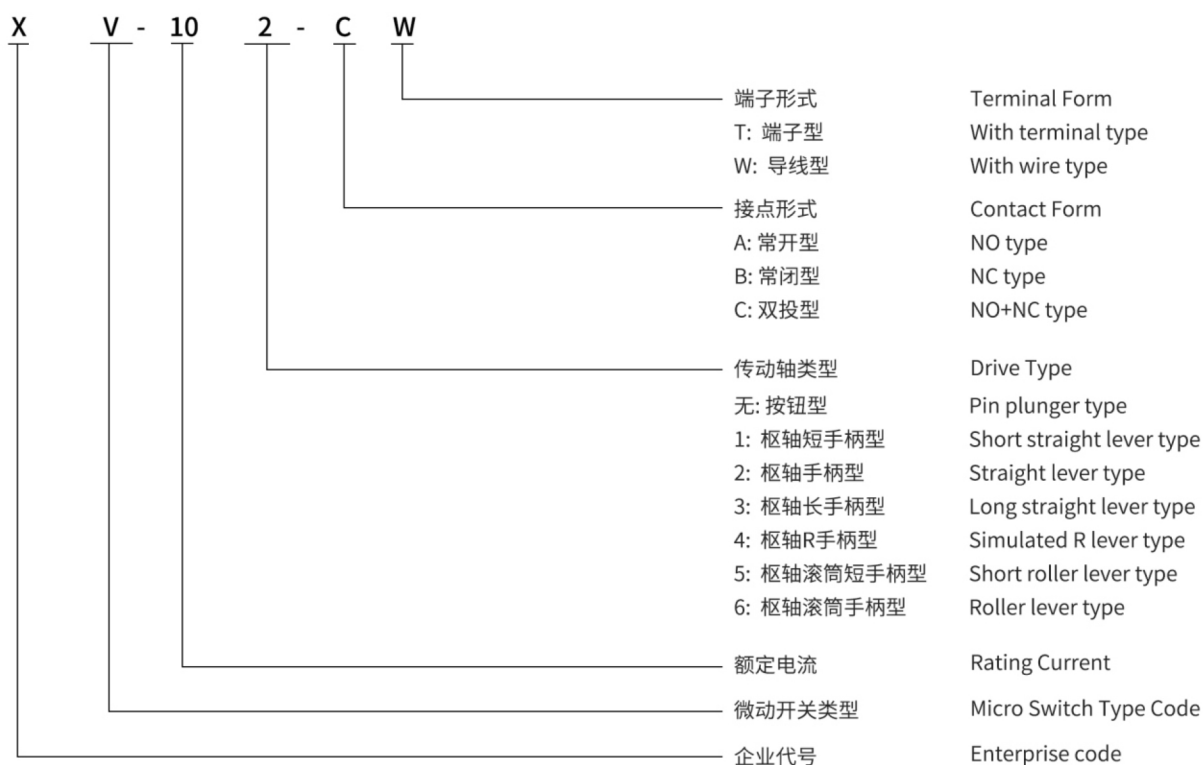


□ 特点及用途 Features & Uses

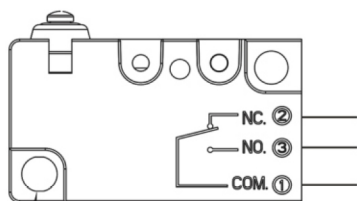
- 本产品采用热固性或热塑性塑料外壳；
- 具有微小触点间隙，动作快速、高灵敏和微小行程；
- 配备各种形式的驱动手柄；
- 广泛应用于家用电器、电子设备、自动化设备、通讯设备、汽车电子仪器仪表等领域
- Adopt thermosetting plastic or thermoplastic
- Small contact gap, snap action, high sensitivity and small operating travel
- Variety of levers
- Widely used in appliance, electronic equipment, automatic machine, communication equipment, car electric, apparatus and instrument, electro motion tool etc.



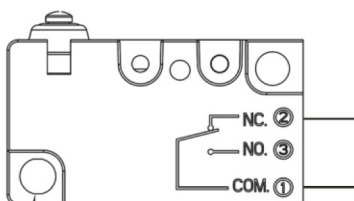
□ 型号含义 Model & Meanings



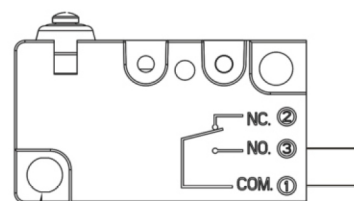
□ 接点形式与安装尺寸 Contact form



双投型
SPDT(1C)



常闭型
SPST-NC(1B)



常开型
SPST-NO(1A)

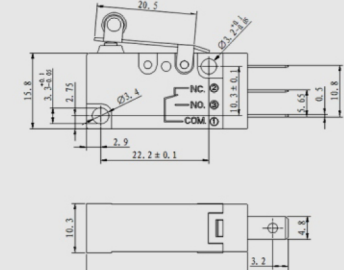
□ 性能参数 Specification

项 目 Item	参数值	Date
额 定 值 Rating	AC-12 10A/250VAC; DC-12 5A/30VDC	
操作频率 Operating frequency	机 械 Mechanical	60次/分 60times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100MΩ以上(Above) DC500V	
接触电阻 Contact resistance	100mΩ(初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP67	
使用温度 Operating temperature	-25~+80°C	
使用湿度 Operating humidity	<85%	

□ 动作特性 Operating Characteristics

型号 Models	XV-10-CW	XV-101-CW	XV-102-CW	XV-103-CW	XV-104-CW	XV-105-CW	XV-106-CW
动作力 OF max.	350gf(3.43N)	350gf(3.43N)	200gf(1.96N)	100gf(0.98N)	200gf(1.96N)	350gf(3.43N)	200gf(1.96N)
回复力 RF min.	100gf(0.98N)	100gf(0.98N)	50gf(0.49N)	20gf(0.2N)	50gf(0.49N)	100gf(0.98N)	50gf(0.49N)
预行程 PT max.	1.2mm	1.2mm	2.8mm	6.0mm	2.8mm	1.2mm	3.0mm
超行程 OT min.	0.6mm	0.6mm	1.0mm	2.6mm	1.0mm	0.8mm	1.2mm
差行程 MD max.	0.3mm	0.5mm	0.8mm	2.0mm	0.8mm	0.5mm	0.8mm
动作位置 OP	14.7±0.5mm	15.2±0.5mm	15.2±1.2mm	15.2±2.6mm	18.3±1.2mm	20.5±0.6mm	20.5±1.2mm

· 滚筒枢轴短手柄型
XV-105-CT



特点及用途 Features & Uses

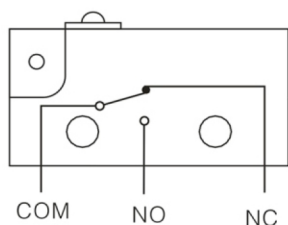
- 本产品采用热固性或热塑性塑料外壳；
- 具有微小触点间隙，动作快速、高灵敏和微小行程；
- 配备各种形式的驱动手柄；
- 广泛应用于家用电器、电子设备、自动化设备、通讯设备、汽车电子仪器仪表等领域
- Adopt thermosetting plastic or thermoplastic
- Small contact gap, snap action, high sensitivity and small operating travel
- Variety of levers
- Widely used in appliance, electronic equipment, automatic machine, communication equipment, car electric, apparatus and instrument, electro motion tool etc.



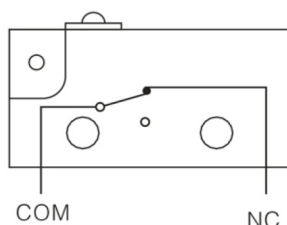
型号含义 Model & Meanings

X	WS	-	6	GL2	-	C	B		
								引线位置	Lead Position
								B: 底部引线	Bottom lead
								F: 侧面引线	Flank lead
								接点形式	Contact Form
								A: 常开型	NO type
								B: 常闭型	NC type
								C: 双投型	NO+NC type
								传动轴类型	Drive Type
								无: 按钮型	Pin plunger type
								GL: 枢轴手柄型	Straight lever type
								GL2: 枢轴滚筒手柄型	Short roller lever type
								GL3: 枢轴长手柄型	Straight long lever type
								GL4: 枢轴R手柄型	Simulated R lever type
								额定电流	Rating Current
								微动开关类型	Micro Switch Type Code
								企业代号	Enterprise code

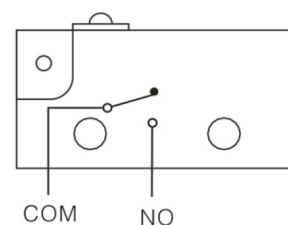
接点形式与安装尺寸 Contact form



双投型
SPDT(1C)



常闭型
SPST-NC(1B)



常开型
SPST-NO(1A)

□ 性能参数 Specification

项 目 Item	参数值	Date
额 定 值 Rating	6A/125VAC; 3A/250VAC	
操作频率 Operating frequency	机 械 Mechanical	60次/分 60times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100MΩ以上(Above) DC500V	
接触电阻 Contact resistance	100mΩ(初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP67	
使用温度 Operating temperature	-25~+80°C	
使用湿度 Operating humidity	<85%	

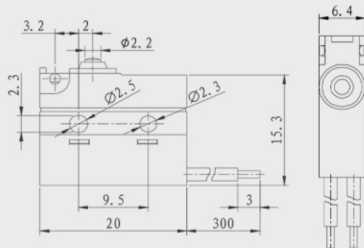
□ 动作特性 Operating Characteristics

型号 Models	XWS-6-CF	XWS-6GL-CF	XWS-6GL2-CF	XWS-6GL3-CF	XWS-6GL4-CF
动作力 OF max.	300gf(2.94N)	100gf(0.98N)	100gf(0.98N)	40gf(0.39N)	80gf(0.78N)
回复力 RF min.	80g(0.78N)	20gf(0.2N)	20gf(0.2N)	8gf(0.08N)	15gf(0.15N)
预行程 PT max.	0.6mm	2.2mm	2.6mm	4.0mm	2.0mm
超行程 OT min.	0.5mm	0.5mm	0.8mm	0.6mm	0.8mm
差行程 MD max.	0.3mm	0.5mm	0.8mm	0.6mm	0.8mm
动作位置 OP	8.4±0.5mm	8.8±0.6mm	14.5±0.5mm	9.0±1.2mm	12.5±0.8mm

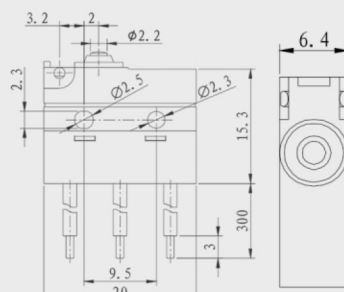
型号 Models	XWS-6-CB	XWS-6GL-CB	XWS-6GL2-CB	XWS-6GL3-CB	XWS-6GL4-CB
动作力 OF max.	300gf(2.94N)	100gf(0.98N)	100gf(0.98N)	40gf(0.39N)	80gf(0.78N)
回复力 RF min.	80g(0.78N)	20gf(0.2N)	20gf(0.2N)	8gf(0.08N)	15gf(0.15N)
预行程 PT max.	0.6mm	2.2mm	2.6mm	4.0mm	2.0mm
超行程 OT min.	0.5mm	0.5mm	0.8mm	0.6mm	0.8mm
差行程 MD max.	0.3mm	0.5mm	0.8mm	0.6mm	0.8mm
动作位置 OP	8.4±0.5mm	8.8±0.6mm	14.5±0.5mm	9.0±1.2mm	12.5±0.8mm

□ 外形尺寸 Dimensions

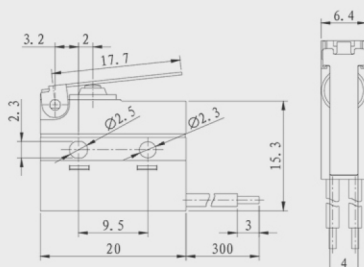
·按钮型
XWS-6-CF



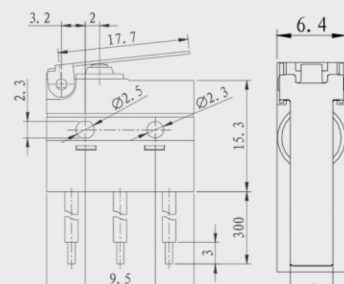
·按钮型
XWS-6-CB



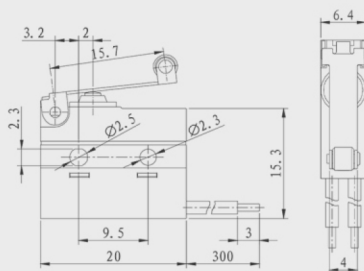
·枢轴手柄型
XWS-6GL-CF



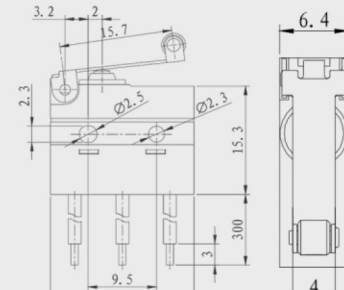
·枢轴手柄型
XWS-6GL-CB



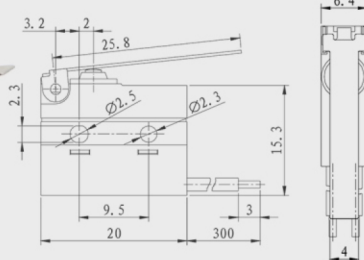
·枢轴滚筒手柄型
XWS-6GL2-CF



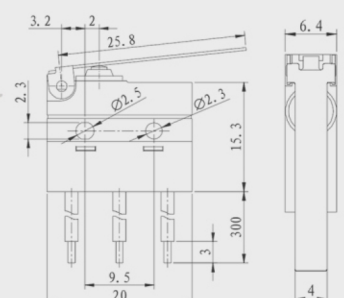
·枢轴滚筒手柄型
XWS-6GL2-CB



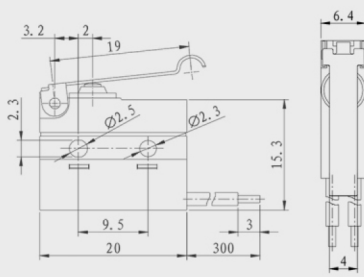
·枢轴长手柄型
XWS-6GL3-CF



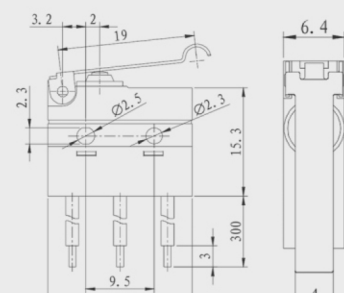
·枢轴长手柄型
XWS-6GL3-CB



·枢轴R手柄型
XWS-6GL4-CF



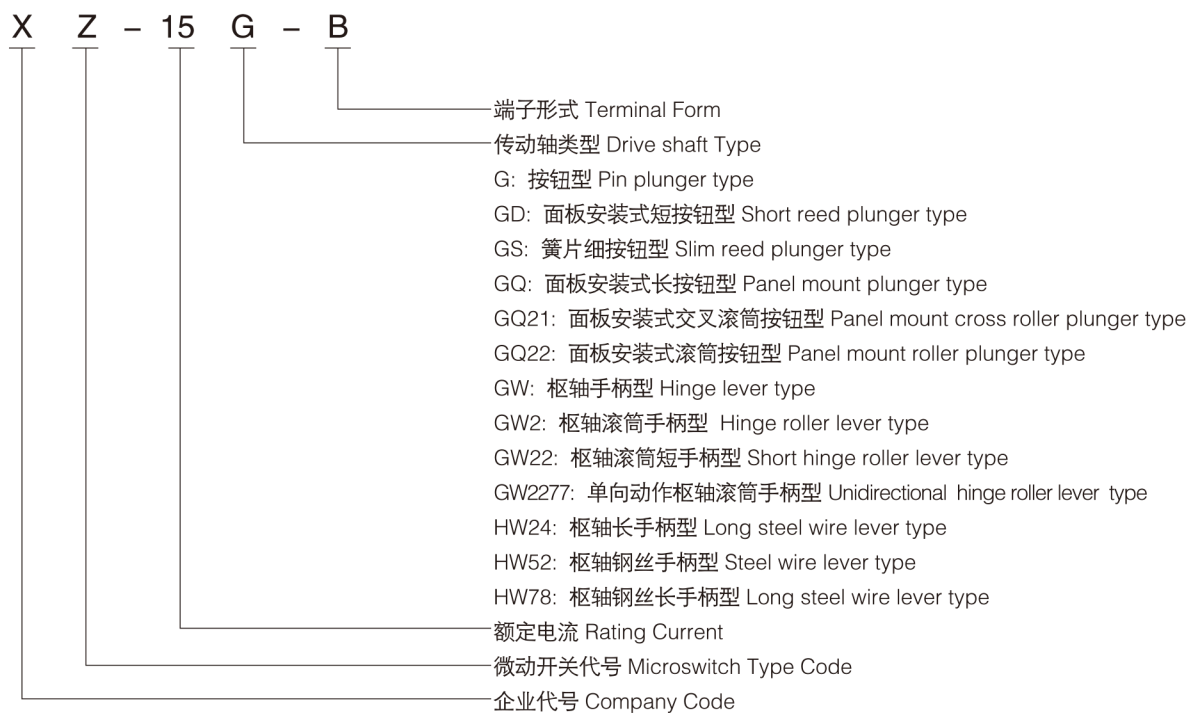
·枢轴R手柄型
XWS-6GL4-CB



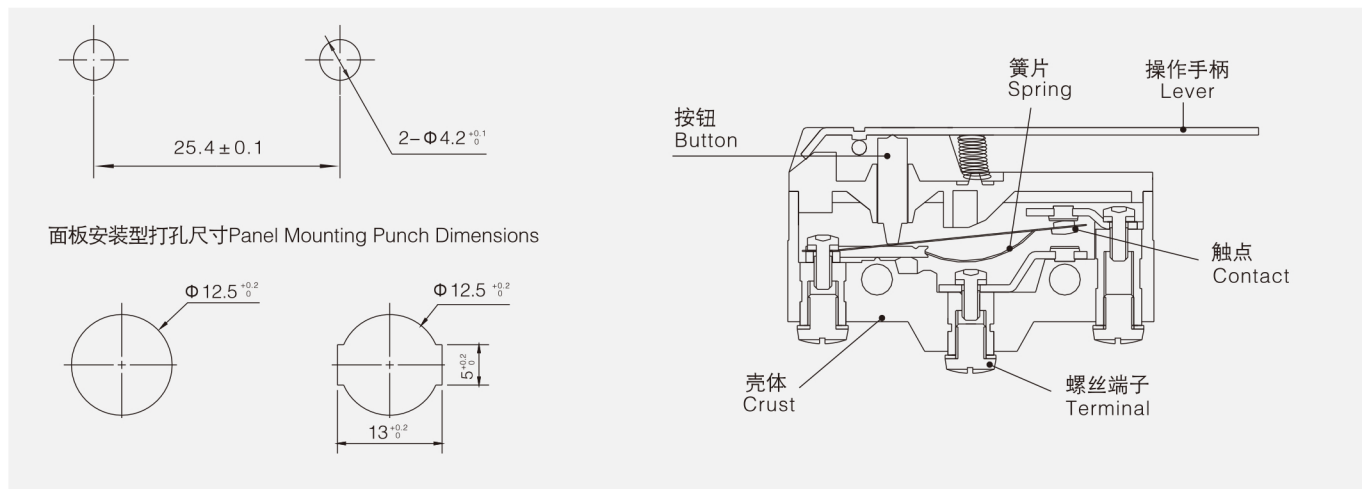
- 采用耐高温的酚醛模塑料外壳；
- 具有微小触点间隙，动作快速、高灵敏和微小行程；
- 配备各种形式的驱动手柄；
- 广泛应用于各种家用电器、电子设备、自动化设备、通讯设备、汽车电子、仪器仪表等领域。
- Adopt thermostable phenolic plastic crust;
- Small contact gap, snap action, high sensitivity and small operating travel;
- Variety of levers;
- Widely used in appliance, electronic equipment, automatic machine, communication equipment, car electric, apparatus and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings



□ 安装孔加工尺寸及产品结构图 Mounting Hole Dimensions & Product Structure



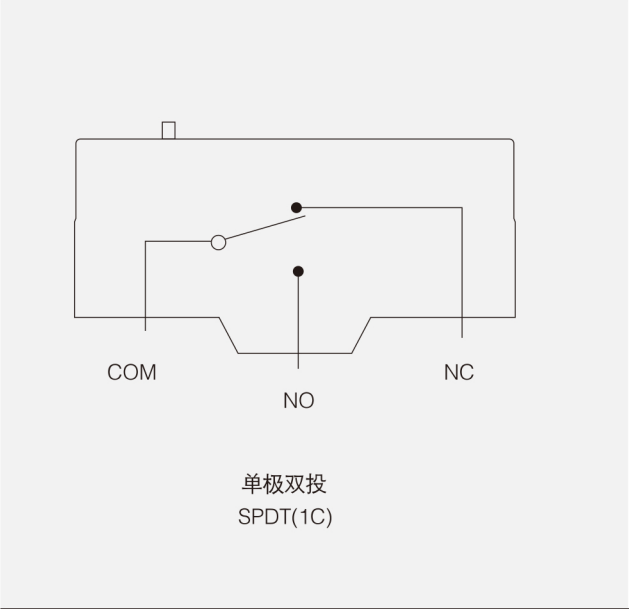
性能参数 Specification

项 目 Item	参数值 Data	
操作速度 Operating speed	1mm-1m/s	
操作频率 Operating frequency	机 械 Mechanical	240次/分 240 times/min
	电 气 Electrical	20次/分 20 times/min
绝缘电阻 Insulation resistance	100MΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ (初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP40	
使用温度 Operating temperature	-25~+80℃	
使用湿度 Operating humidity	<85%	

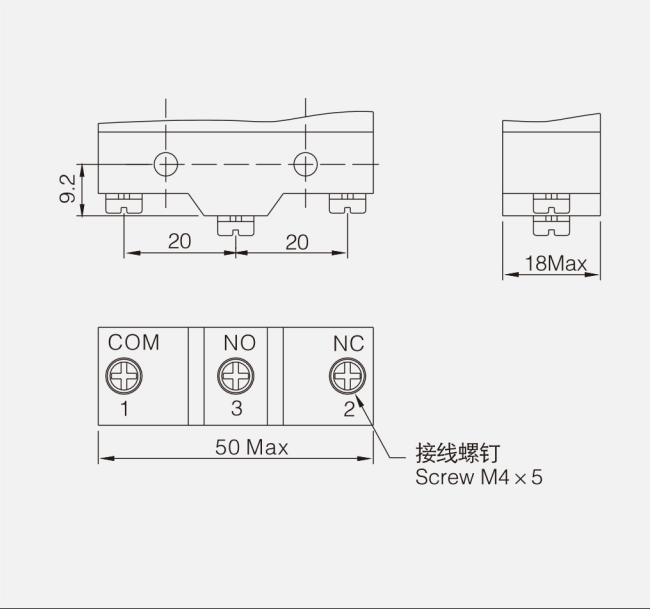
额定值 Rating

额定电压Ue(V)	额定电流Ie(A)	发热电流Ith(A)
AC-250	15	20
AC-125	15	20
DC-250	0.3	0.45
DC-125	0.6	0.75

触点形式 Contact Form



端子形式 Terminal Form

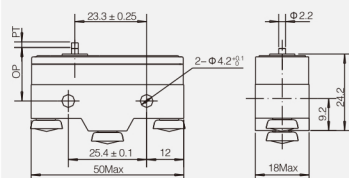


□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

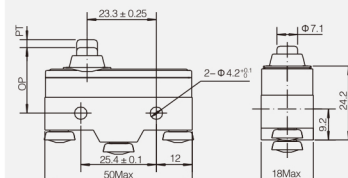
型号	Models	XZ-15G-B	XZ-15GD-B	XZ-15GS-B	XZ-15GW-B	XZ-15GW2-B	XZ-15GW3-B	XZ-15GW21-B	XZ-15GW22-B	XZ-15GW2277-B
动作力	OF max.	250-350g (2.45-3.43N)	250-350g (2.45-3.43N)	350-450g (3.43-4.41N)	80g(0.78N)	120g(1.18N)	120g(1.18N)	160g(1.57N)	180g(1.76N)	160g(1.57N)
回复力	RF min.	114g(1.12N)	114g(1.12N)	114g(1.12N)	14g(0.14N)	25g(0.25N)	25g(0.25N)	25g(0.25N)	42g(0.41N)	42g(0.41N)
预行程	PT max.	0.5mm	0.5mm	0.8mm	8mm	6mm	4mm	4mm	3.2mm	2.6mm
超行程	OT min.	0.2mm	1.6mm	1.6mm	3.6mm	3mm	3mm	2mm	1.6mm	2mm
差行程	MD max.	0.1mm	0.1mm	0.5mm	1.2mm	0.8mm	0.6mm	0.5mm	0.5mm	0.5mm
动作位置	OP	15.9 ± 0.4mm	21.5 ± 0.5mm	28.2 ± 0.8mm	19 ± 0.8mm	30.2 ± 0.8mm	30.2 ± 0.8mm	19 ± 0.8mm	30.2 ± 0.4mm	42 ± 0.8mm

型号	Models	XZ-15GL-B	XZ-15GL2-B	XZ-15GQ-B	XZ-15GQ21-B	XZ-15GQ22-B	XZ-15HW52-B	XZ-15HW78-B	XZ-15HW24-B	XZ-15AB
动作力	OF max.	120g(1.18N)	150g(1.47N)	350-450g (3.43-4.41N)	350-450g (3.43-4.41N)	350-450g (3.43-4.41N)	50g(0.49N)	30g(0.29N)	50g(0.49N)	1000g(9.8N)
回复力	RF min.	15g(0.15N)	14g(0.14N)	114g(1.12N)	114g(1.12N)	114g(1.12N)	6g(0.06N)	5g(0.05N)	6g(0.06N)	100g(0.98N)
预行程	PT max.	3.6mm	3.6mm	0.5mm	0.5mm	0.5mm	10mm	20mm	18mm	3.6mm
超行程	OT min.	1.0mm	1.0mm	5mm	4mm	4mm	5mm	10mm	10mm	0.05mm
差行程	MD max.	0.5mm	0.8mm	0.1mm	0.1mm	0.1mm	2mm	3mm	2mm	2mm
动作位置	OP	16 ± 0.8mm	28.5 ± 0.8mm	21.5 ± 0.8mm	32.1 ± 1.2mm	32.1 ± 1.2mm	19 ± 1.2mm	19 ± 1.6mm	19 ± 1.6mm	19.5 ± 0.8mm

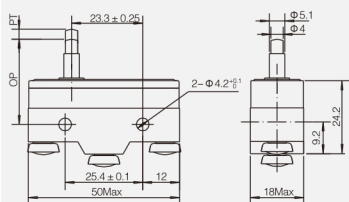
• 按钮型
XZ-15G-B



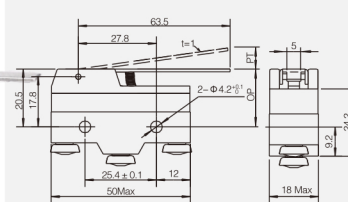
• 簧片短按钮型
XZ-15GD-B



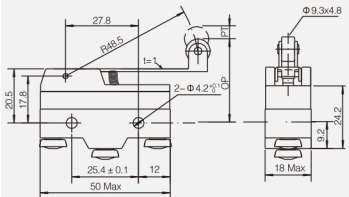
• 簧片细按钮型
XZ-15GS-B



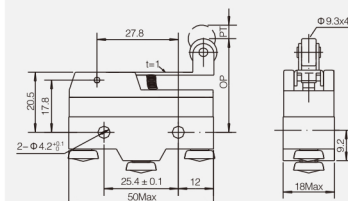
• 枢轴手柄型
XZ-15GW-B



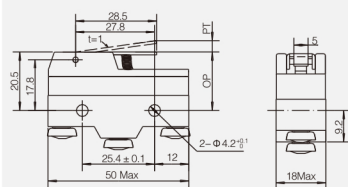
• 枢轴滚筒手柄型
XZ-15GW2-B



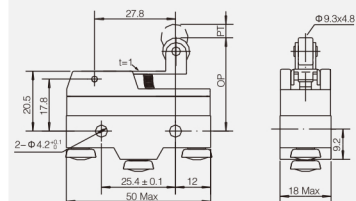
• 枢轴滚筒手柄型
XZ-15GW3-B



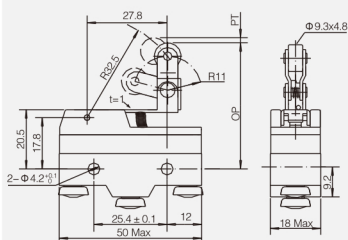
• 枢轴短手柄型
XZ-15GW21-B



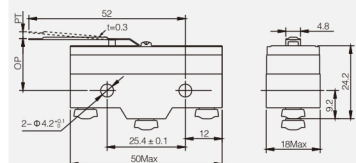
• 枢轴滚筒短手柄型
XZ-15GW22-B



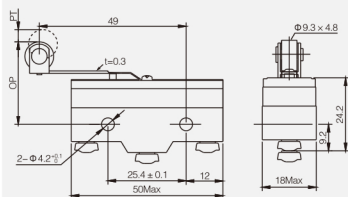
• 单方向动作枢轴滚筒手柄型
XZ-15GW2277-B



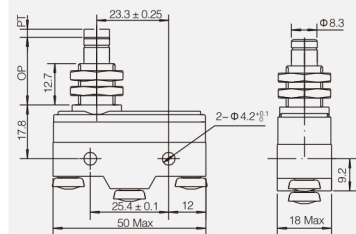
• 枢轴反向手柄型
XZ-15GL-B



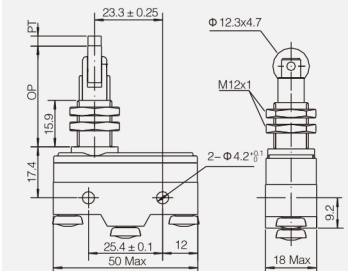
• 枢轴反向滚筒手柄型
XZ-15GL2-B



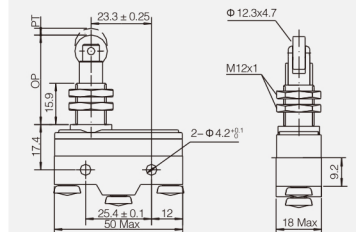
• 面板安装按钮型
XZ-15GQ-B



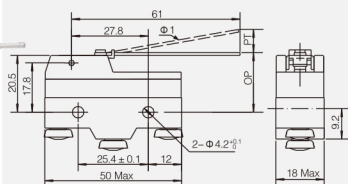
• 面板安装交叉滚筒按钮型
XZ-15GQ21-B



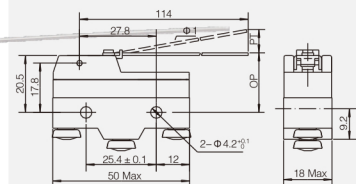
• 面板安装滚筒按钮型
XZ-15GQ22-B



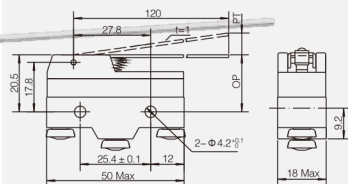
• 微量枢轴钢丝手柄型
XZ-15HW52-B



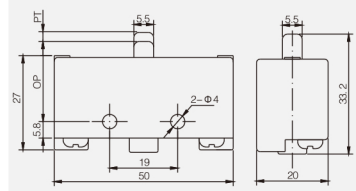
• 微量枢轴钢丝长手柄型
XZ-15HW78-B



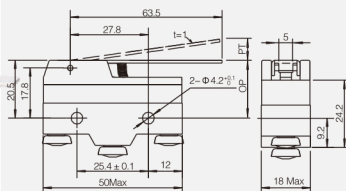
• 微量枢轴钢丝长手柄型
XZ-15HW24-B



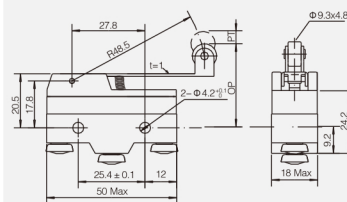
• 一开一闭按钮型
XZ-15AB



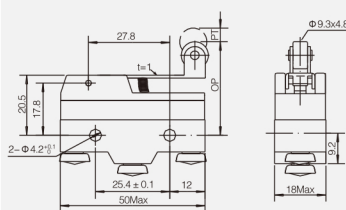
• 枢轴手柄型
XZ-15GW-B



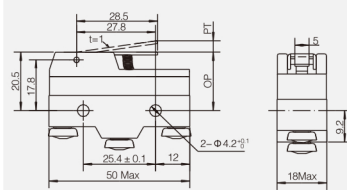
• 枢轴滚筒手柄型
XZ-15GW2-B



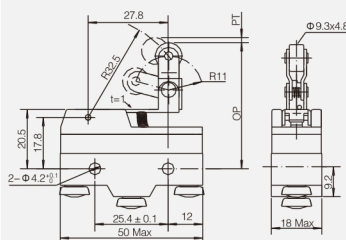
• 枢轴滚筒手柄型
XZ-15GW3-B



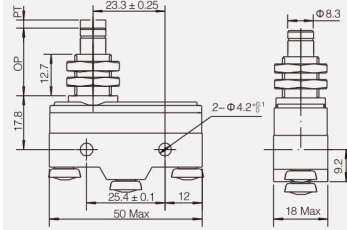
• 枢轴短手柄型
XZ-15GW21-B



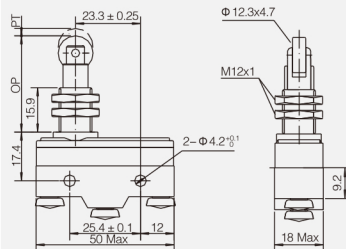
• 单方向动作枢轴滚筒手柄型
XZ-15GW2277-B



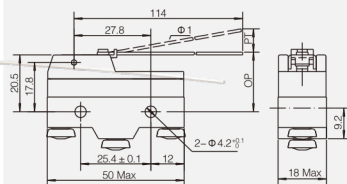
• 面板安装按钮型
XZ-15GQ-B



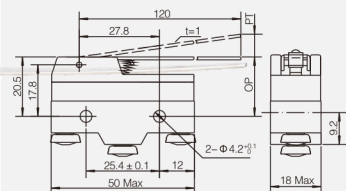
• 面板安装滚筒按钮型
XZ-15GQ22-B



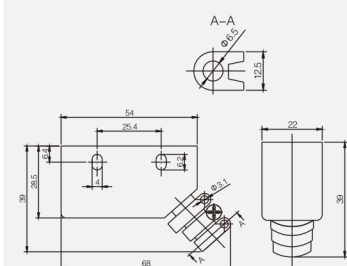
• 微量枢轴钢丝长手柄型
XZ-15HW78-B



• 微量枢轴钢丝长手柄型
XZ-15HW24-B



• 护套 Protection Cap
XZ-15HT

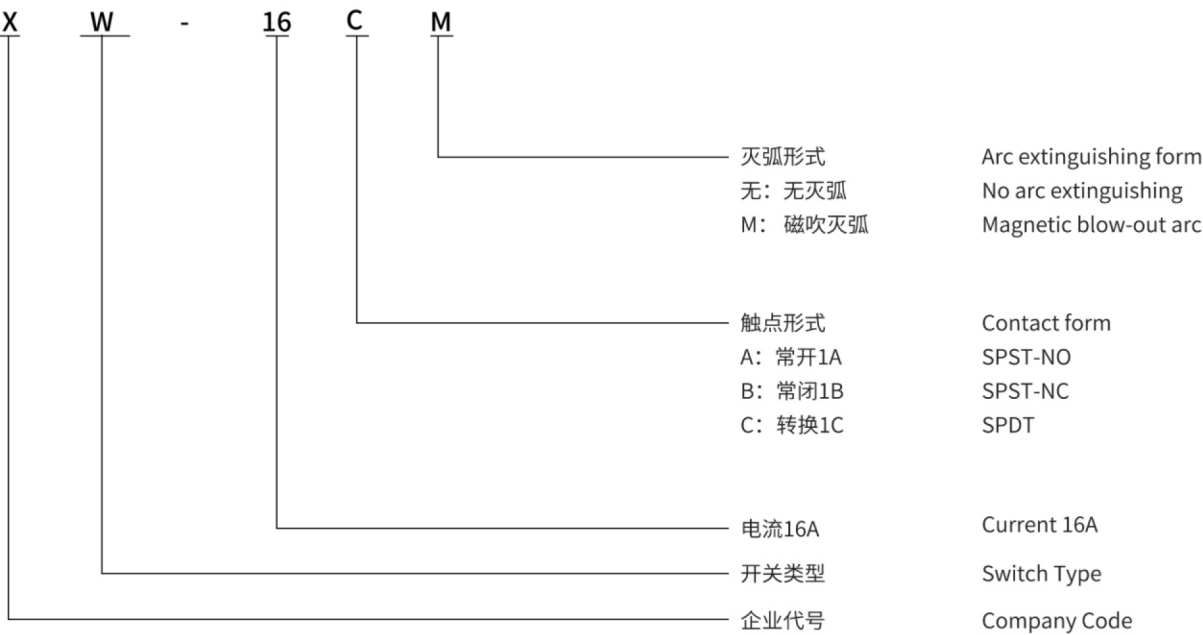


特点及用途 Features & Uses

- 本产品采用工程塑料作外壳，重量轻、绝缘性好；
- 开关采用银合金触点，动作快速、灵敏度高；
- 广泛应用于各种家用电器、机床、电磁铁、电力行业等领域；
- 适用于交流电压不大于 380V，电流不大于 16A，直接电压不大于 250V，电流不大于 5A 的电路中作控制用。
- This product uses engineering plastics as the shell, which is light in weight and good in insulation;
- The switch adopts silver alloy contacts with fast action and high sensitivity;
- Widely used in various household appliances, machine tools, electromagnets, electric power industry and other fields;
- Suitable for AC voltage not greater than 380V, current not greater than 16A, direct voltage not greater than 250V, current not greater than 5A.

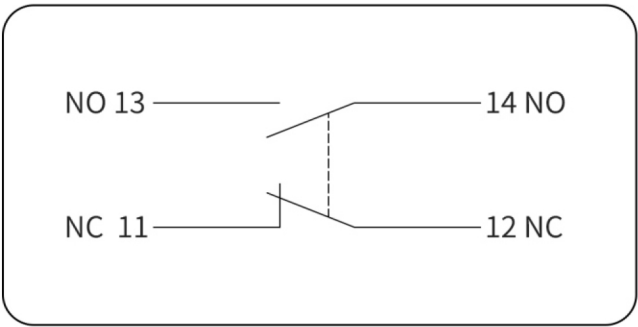


型号含义 Model & Meanings



触点形式 Contact form

1NO*1NC



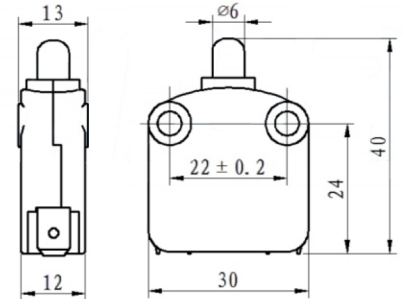
额定参数 Rated parameters

Uimp	2.5KV
Ith	16A
Ui	380V
AC-12	380V/16A
DC-12	250V/5A

□ 技术参数 Technical Parameters

项目	参数
额定容量 Raitng	AC-12 380VAC 16A DC-12 250VDC 5A
触点形式 Contact form	1NO1NC
绝缘电阻 Insulation resistance	$\geq 100M\Omega$ (DC500V)
接触电阻 Contact resistance	$\leq 25m\Omega$ (初值)
介质耐压 Medium withstand voltage	$\geq 1500VAC$
机械寿命 Mechanical life	$\geq 1,000,000$
电气寿命 Electrical life	$\geq 50,000$
防护等级 Protection level	IP40
环境温度 Ambient temperature	-25-80°C
环境湿度 Environment humidity	$\leq 85\%$

□ 外形尺寸 Dimensions

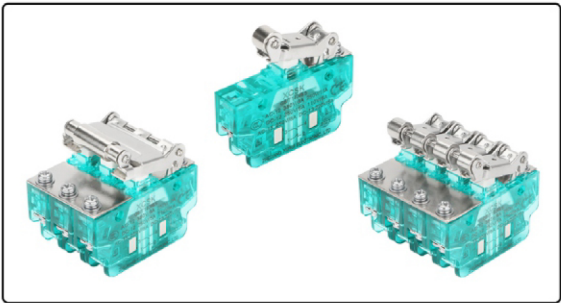


□ 注意事项与使用方法 Precautions and usage

- 开关在搬运、移动、安装、拆卸和配线作业及维护检查时，请务必断开电源，以免造成内部配线短路、断路等现象而引起触电或开关烧损。
- When the switch is transported, moved, installed, disassembled, wiring, and maintenance and inspection, be sure to disconnect the power supply to avoid short-circuit or open circuit in the internal wiring, which may cause electric shock or switch burns.
- 请不要在易燃易爆环境中使用，开关动作时产品的电弧和火花可能会引起火灾和爆炸，即使在涉及有水、油或其他液体飞散、喷射的环境中使用，使用时请对开关采取相应的防护措施。
- Please do not use it in a flammable and explosive environment. The arc and spark of the product may cause fire and explosion when the switch is activated, even in an environment where water, oil or other liquids are scattered or sprayed. Please take corresponding protective measures for the switch when using it.
- 开关请在平整地面上使用，如果凹凸不平可能会导致开关歪斜或动作失常。
- Please use the switch on a flat ground. If it is uneven, it may cause the switch to skew or malfunction.
- 请不要致使开关跌落或拆分开关，否则不仅无法满足其特性，还可能造成开关破损或触电。重压和冲击是造成本产品损坏的直接原因，请务必正确使用。
- Please do not cause the switch to fall or disassemble the switch, otherwise it will not only fail to meet its characteristics, it may also cause damage to the switch or electric shock. Heavy pressure and impact are the direct causes of damage to this product, please make sure Must be used correctly.
- 开关的寿命根据开关使用条件的不同差别很大，使用时请务必在实际使用条件中确认实际设备在性能允许范围内。如果在恶劣的状态下继续使用最终可能引起绝缘不良、触点熔接、接触不良和开关本身的损坏。
- The service life of the switch varies greatly depending on the use conditions of the switch. Please make sure that the actual equipment is within the allowable range of performance in the actual use conditions. If you continue in a bad state Use may eventually cause poor insulation, contact welding, poor contact and damage to the switch itself.

特点及用途 Features & Uses

- 本产品根据采用聚碳酸酯作外壳，机械强度高，抗老化、电气性能优良；
- 开关采用银合金触点，动作速度快，拉弧少；
- 广泛应用于各种高压操作机构的合闸、分闸、开关锁、信号控制等领域；
- 适用于交直流电压不大于 380V，电流不大于 16A 的电路中作控制用
- This switch uses polycarbonate as housing material, which also features high mechanical strength, anti-aging and excellent electrical performance.
- The switch has silver alloy contact and snap action characteristic.
- Widely used in the closing, opening, switch lock, signal control and other fields of various high-voltage operating mechanisms
- It is suitable for control in circuits with AC and DC that voltage is not more than 380V and current is not more than 16A.

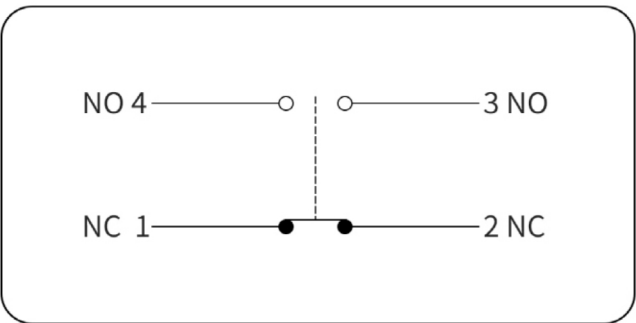


型号含义 Model & Meanings



触点形式 Contact form

1NO*1NC



额定参数 Rated parameters

UIMP	2.5KV
ITH	22A
UI	440V
AC-12	UE/IE:380V/8A UE/IE:380V/8A
DC-12	UE/IE:250V/5A UE/IE:110V/8A
AC-15	UE/IE:250V/8A
DC-13	UE/IE:220/5A

□ 技术参数 Technical Parameters

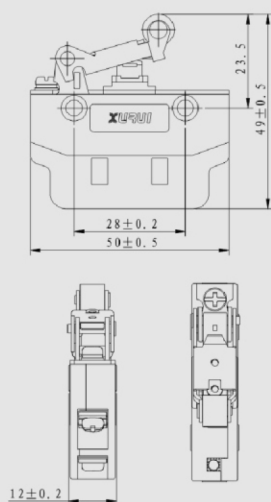
项目	参数
额定负载 Specified load	AC-12 380V/8A; 250V/16A DC-12 250V/5A; 110V/8A AC-15 250V/8A DC-13 220V/5A
动作力 Action force	600±100gf(5.88±0.98N)
回复力 Resilience	≥150gf(1.47N)
动作行程 Action stroke	3±1mm
触点形式 Contact stroke	1NO1NC
绝缘电阻 Insulation resistance	≥100MΩ (DC500V)
接触电阻 Contact resistance	≤25mΩ (初值)
介质耐压 Medium withstand voltage	≥1500VAC
机械寿命 Mechanical life	≥1,000,000
电气寿命 Electrical life	≥50,000
端子扭矩 Terminal torque	≥1.2Nm
防护等级 Protection level	IP40
环境温度 Ambient temperature	-25-80°C
环境湿度 Environment humidity	≤85%

□ 注意事项与使用方法 Precautions and usage

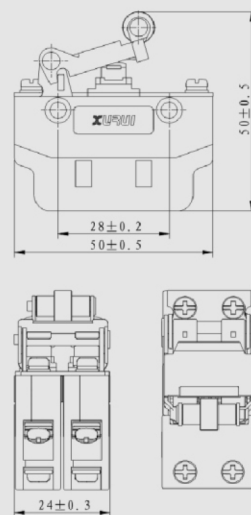
- 开关在搬运、移动、安装、拆卸和配线作业及维护检查时，请务必断开电源，以免造成内部配线短路、断路等现象而引起触电或开关烧损。
- Please be sure to disconnect the power supply when the switch is transported, moved, installed, disassembled, wiring, and maintenance inspection, so as not to cause internal wiring short circuit, open circuit, etc., which may cause electric shock or switch burnout.
- 请不要在易燃易爆环境中使用，开关动作时产品的电弧和火花可能会引起火灾和爆炸，即使在涉及有水、油或其他液体飞散、喷射的环境中使用时请对开关采取相应的防护措施。
- Please do not use it in an flammable and explosive environment. The arc and sparks of the product may cause fire and explosion when the switch is activated, especially when it is used in an environment where water, oil or other liquids are scattered or sprayed, please take appropriate measures for the switch.
- 开关请在平整地面上使用，如果凹凸不平可能会导致开关歪斜或动作失常。
- Please use the switch on a flat ground. The uneven ground may cause the switch to skew or malfunction.
- 请不要致使开关跌落或拆开关，否则不仅无法满足其特性，还可能造成开关破损或触电。重压和冲击是造成本产品损坏的直接原因，请务必正确使用。
- Please do not cause the switch to fall or disassemble the switch, otherwise it will not only fail to meet its characteristics, it may also cause damage to the switch or electric shock. Heavy pressure and impact are the direct causes of damage to this product, please use it correctly.
- 开关的寿命根据开关使用条件的不同差别很大，使用时请务必在实际使用条件中确认实际设备在性能允许范围内。如果在恶劣的状态下继续使用最终可能引起绝缘不良、触点熔接、接触不良和开关本身的损坏。
- The service life of the switch varies greatly depending on the use conditions of the switch. Please make sure that the actual equipment is within the allowable range of performance in the actual use conditions. If you continue to use it in a bad state, it may eventually cause poor insulation, contact welding, poor contact, and damage to the switch itself.

□ 外形尺寸 Dimensions

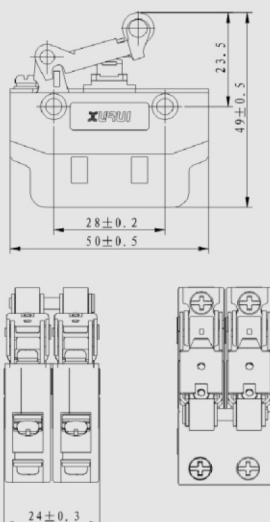
• 单极1P
XCSK - 1



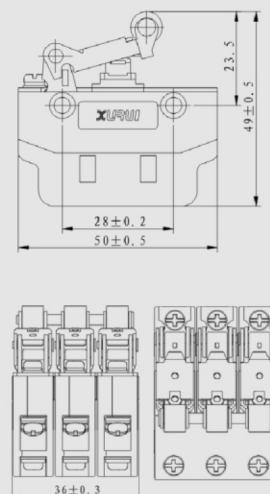
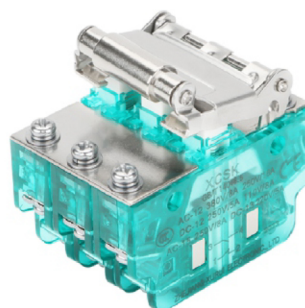
• 双极2P
XCSK - 2



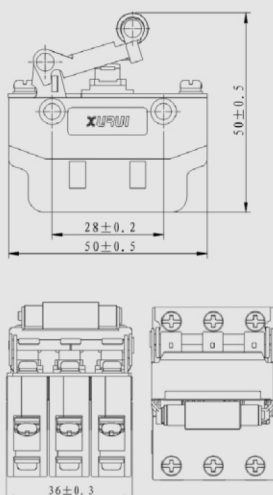
• 双极2P
XCSK - 2S



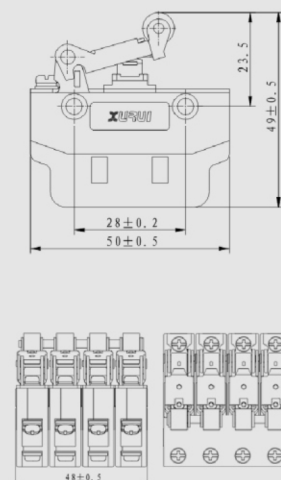
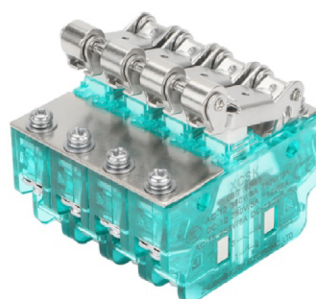
• 三极3P
XCSK - 3



• 三极3P
XCSK - 3S



• 四极4P
XCSK - 4S



- 采用强化塑胶外壳，辅助密封式结构，具有更好的机械强度以及防油防尘；
- 侧面固定形式，接点敏捷；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Adopt outer shell with intensive plastic and sealed construction, better mechanical strength and water-proof and oil-proof;
- Side fixed form and swift contact;
- Variety of levers;
- Widely used in Mechanical equipment ,automatic machine, and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings

X Z - 7 100

传动类型 Drive Shaft Type

100: 按钮型 Pin plunger type

110: 长按钮型 Long plunger type

120: 枢轴手柄型 Hinge lever type

121: 枢轴滚筒手柄型 Hinge roller lever type

140: 枢轴短手柄型 Short lever type

141: 枢轴滚筒短手柄型 Short roller lever type

144: 单方向动作枢轴滚筒手柄型 Unidirectional hinge roller lever type

310: 面板安装按钮型 Panel mount plunger type

311: 面板安装滚筒按钮型 Panel mount roller plunger type

312: 面板安装交叉滚筒按钮型 Panel mount cross roller plunger type

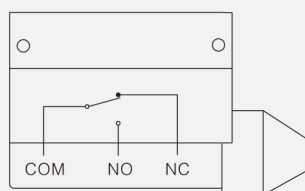
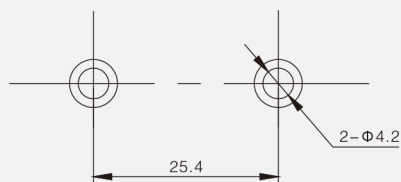
166: 万向塑料端头弹簧摇杆型 Plastic end flexible spring rod type

设计类型 Design Type

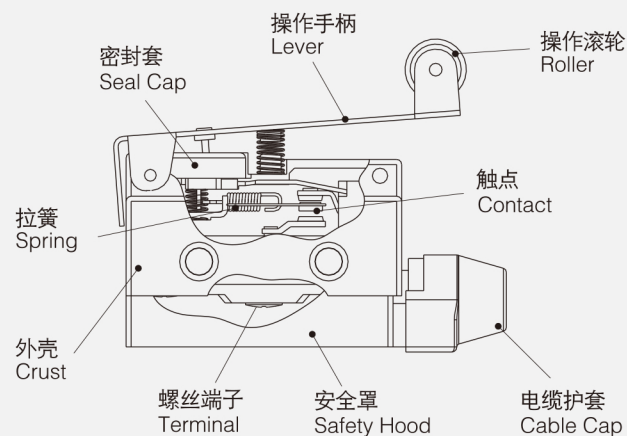
开关代号 Switch Type Code

企业代号 Company Code

□ 安装孔尺寸及触点形式 Mounting Holes & Contact Form



□ 产品结构图 Product Structure



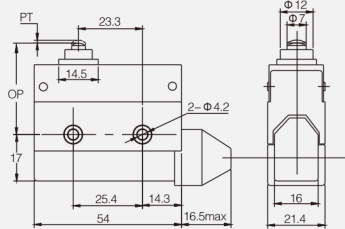
□ 性能参数 Specification

项 目	Item	参数值 Data	
额定负荷	Rating load	10A/250VAC	
操作速度	Operation speed	0.1mm–50cm/s	
操作频率	Operation frequency	机 械 Mechanical	120次/分 120times/min
		电 气 Electrical	20次/分 20times/min
绝缘电阻	Insulation resistance	100mΩ 以上(Above) DC500V	
接触电阻	Contact resistance	25mΩ 初值 initial value)	
介质耐压	Withstand voltage	非 连 线 Non-connection wire	1000VAC
		各端子间 Every terminal	1500VAC
振 动	Vibration	误 动 作 Misoperation	10–55Hz 复振幅 Amplitude 1.5mm
冲 击	Impact	耐 久 Durable	1000m/s ²
		误 动 作 Misoperation	300m/s ²
寿 命	Life	电 气 Electrical	100,000次以上 above
		机 械 Mechanical	1,000,000次以上 above
防护等级	Protection degree	IP65	
使用温度	Operating temperature	–10~+80℃	
使用湿度	Operating humidity	<85%	

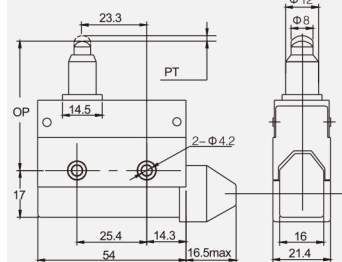
□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

型号 Models	XZ7-100	XZ7-110	XZ7-120	XZ7-121	XZ7-140	XZ7-141	XZ7-144	XZ7-310	XZ7-311	XZ7-312	XZ7-166
动作力 OF max.	950g(9.31N)	500g(4.9N)	100g(0.98N)	130g(1.27N)	160g(1.57N)	160g(1.57N)	250g(2.45N)	400g(3.92N)	400g(3.92N)	400g(3.92N)	150g(1.47N)
回复力 RF min.	200g(1.96N)	100g(0.98N)	20g(0.2N)	22g(0.22N)	25g(0.25N)	25g(0.25N)	40g(0.39N)	60g(0.59N)	60g(0.59N)	60g(0.59N)	--
预行程 PT max.	1.8mm	2mm	6mm	8.5mm	4mm	4.8mm	5mm	2mm	2mm	2mm	20mm
超行程 OT min.	0.5mm	5mm	4mm	3.2mm	2mm	3mm	4mm	4mm	4mm	4mm	--
差行程 MD max.	0.5mm	0.8mm	2.6mm	2mm	1.5mm	2mm	4mm	1mm	1mm	1mm	--
动作位置 OP	30.8±0.6mm	48±0.8mm	27±1mm	40±1mm	24.5±1mm	40±1mm	51.5±1mm	23±1.2mm	33.5±1.2mm	33.5±1.2mm	--

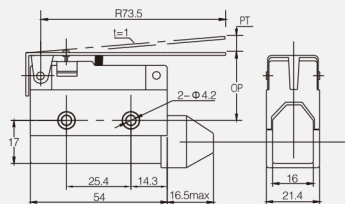
• 按钮型 XZ7-100



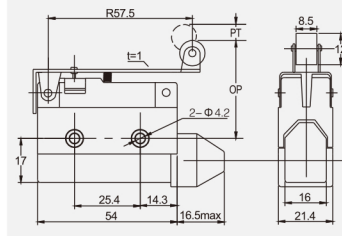
• 长按钮型 XZ7-110



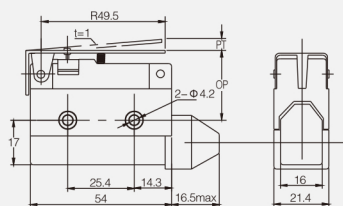
• 枢轴手柄型 XZ7-120



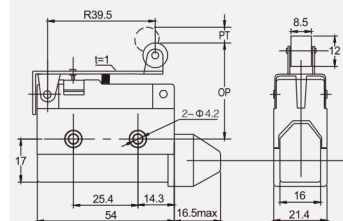
• 枢轴滚简手柄型 XZ7-121



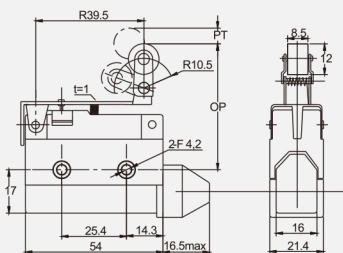
• 枢轴短手柄型
XZ7-140



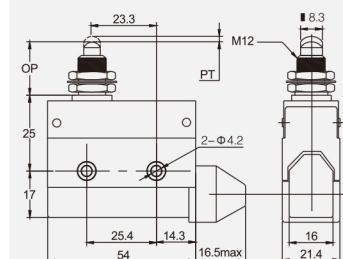
• 枢轴滚筒短手柄型
XZ7-141



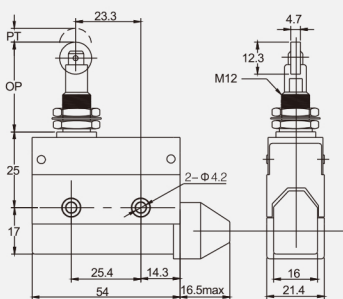
• 单方向动作枢轴滚筒手柄型
XZ7-144



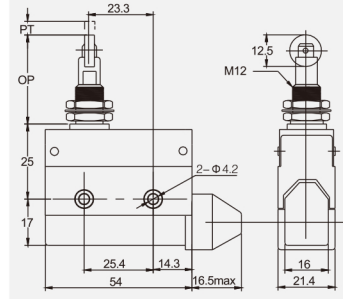
• 面板安装按钮型
XZ7-310



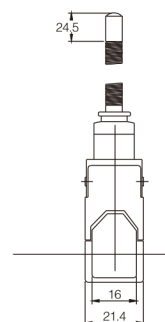
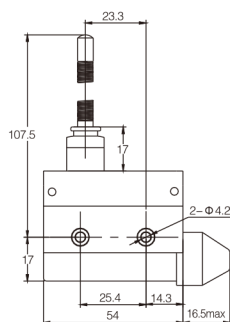
• 面板安装滚筒按钮型
XZ7-311



• 面板安装交叉滚筒按钮型
XZ7-312



• 万向式塑料端头弹簧摇杆型
XZ7-166



- 外壳由强化塑胶与锌合金组成，结构坚固，容易配线；
- 体积小，可防水、防油；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong structure, made of zinc metal alloy and plastics, easy to contact line;
- Small size, water and oil resistant;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical equipment, automatic machine, and instrument, electro motion tool etc.

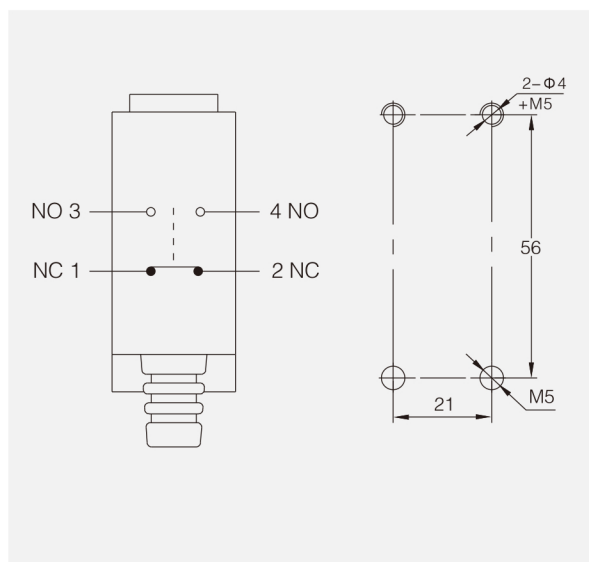


□ 型号含义 Model & Meanings

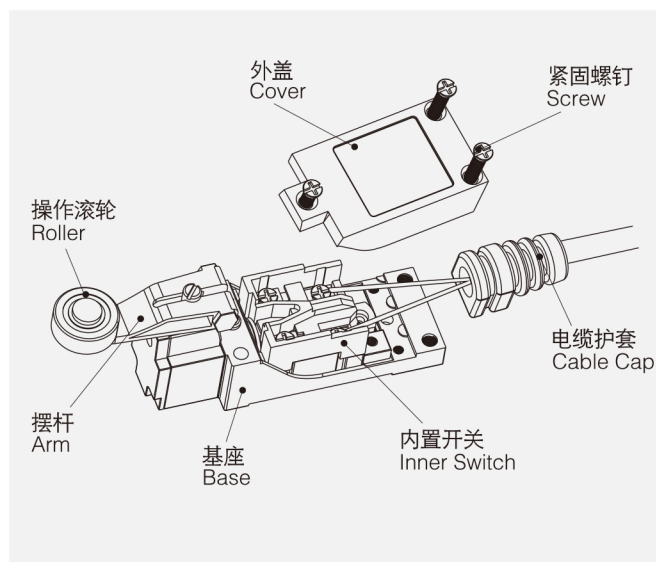
X Z - 8 / 104

- 传动类型 Drive Shaft Type
 - 104: 滚轮摆杆型 Roller arm type
 - 107: 可调圆棒摆杆型 Adjustable rod lever type
 - 108: 可调滚轮摆杆型 Adjustable roller arm type
 - 111: 按钮直动型 Push plunger type
 - 112: 滚轮按钮直动型 Roller plunger type
 - 122: 交叉滚轮按钮直动型 Cross roller plunger type
 - 166: 万向塑料端头弹簧摇杆型 Thermoplastic end flexible rod type
 - 167: 万向弹簧摇杆型 Metal spring rod type
 - 168: 万向金属端头弹簧摇杆型 Metal end flexible spring rod type
 - 169: 万向触须端头弹簧摇杆型 Cat whisker type
- 设计类型 Design Type
- 开关代号 Switch Code
- 企业代号 Company Code

□ 安装孔尺寸及触点形式 Mounting Holes & Contact Form



□ 产品结构图 Product Structure

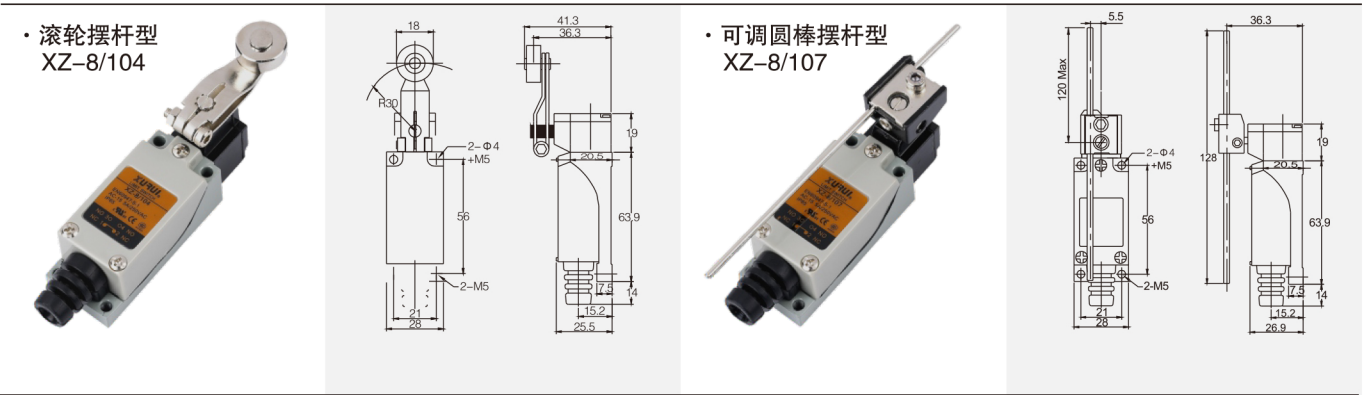


□ 性能参数 Specification

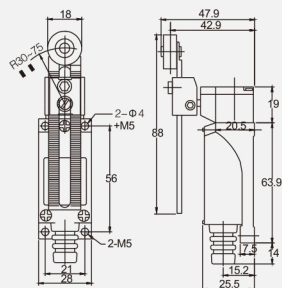
项 目 Item	参数值 Data	
额定负荷 Rating load	5A/250VAC	
操作速度 Operation speed	5mm~50cm/s	
操作频率 Operation frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100mΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ 初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10~55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP65	
使用温度 Operating temperature	-20~+60℃	
使用湿度 Operating humidity	<85%	

□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

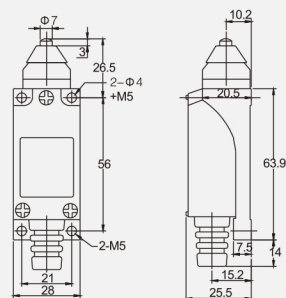
型号 Models	XZ-8/104	XZ-8/107	XZ-8/108	XZ-8/111	XZ-8/112	XZ-8/122	XZ-8/166	XZ-8/167	XZ-8/168	XZ-8/169
动作力 OF max.	700g(6.86N)	700g(6.86N)	800g(7.84N)	1100g(10.78N)	1100g(10.78N)	1100g(10.78N)	1000g(9.8N)	1000g(9.8N)	1000g(9.8N)	1000g(9.8N)
回复力 RF min.	60g(0.59N)	70g(0.69N)	60g(0.59N)	250g(2.45N)	250g(2.45N)	250g(2.45N)	--	--	--	--
预行程 PT max.	30°	30°	30°	2mm	2mm	2mm	30mm	30mm	30mm	30mm
超行程 OT min.	60°	60°	60°	0.6mm	0.6mm	0.6mm	--	--	--	--
差行程 MD max.	15°	15°	15°	1mm	1mm	1mm	--	--	--	--
动作位置 OP	--	--	--	26±0.8mm	37±0.8mm	37±0.8mm	--	--	--	--
总行程 TT	90°	90°	90°	--	--	--	--	--	--	--



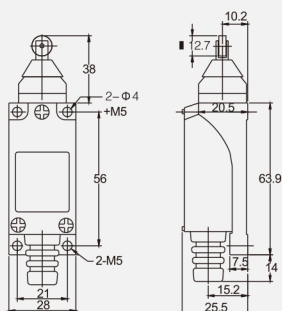
• 可调滚轮摆杆型
XZ-8/108



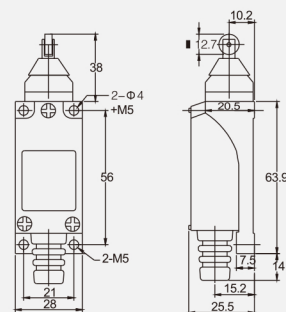
• 按钮型
XZ-8/111



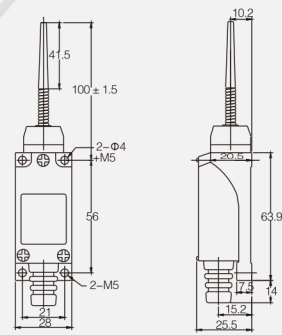
• 滚轮按钮型
XZ-8/112



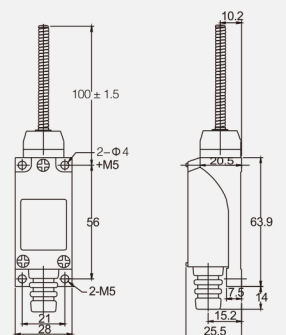
• 交叉滚轮按钮型
XZ-8/122



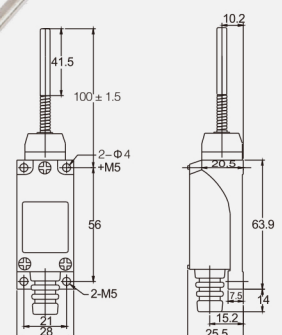
• 万向式塑料端头弹簧摇杆型
XZ-8/166



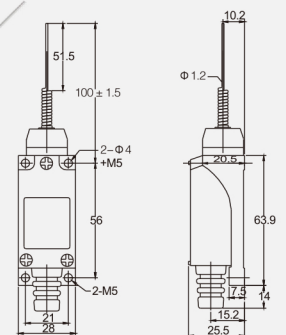
• 万向式弹簧摇杆型
XZ-8/167



• 万向式金属端头弹簧摇杆型
XZ-8/168



• 万向式触须端头弹簧摇杆型
XZ-8/169



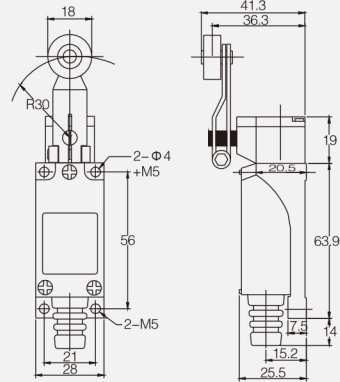
□ 性能参数 Specification

项 目 Item	参数值 Data	
额定负荷 Rating load	10(4)A/250VAC, 6(2)A 380VAC	
操作速度 Operation speed	5mm~50cm/s	
操作频率 Operation frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100mΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ 初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10~55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP65	
使用温度 Operating temperature	-20~+60℃	
使用湿度 Operating humidity	<85%	

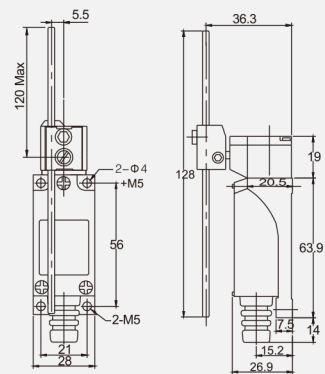
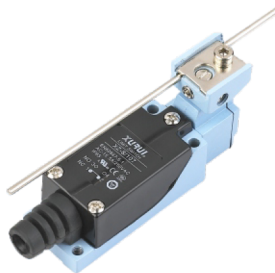
□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

型号 Models	XZ-8104	XZ-8107	XZ-8108	XZ-8111	XZ-8112	XZ-8122	XZ-8166	XZ-8167	XZ-8168	XZ-8169
动作力 OF max.	700g(6.86N)	700g(6.86N)	800g(7.84N)	1100g(10.78N)	1100g(10.78N)	1100g(10.78N)	1000g(9.8N)	1000g(9.8N)	1000g(9.8N)	1000g(9.8N)
回复力 RF min.	60g(0.59N)	70g(0.69N)	60g(0.59N)	250g(2.45N)	250g(2.45N)	250g(2.45N)	--	--	--	--
预行程 PT max.	30°	30°	30°	2mm	2mm	2mm	30mm	30mm	30mm	30mm
超行程 OT min.	60°	60°	60°	0.6mm	0.6mm	0.6mm	--	--	--	--
差行程 MD max.	15°	15°	15°	1mm	1mm	1mm	--	--	--	--
动作位置 OP	--	--	--	26±0.8mm	37±0.8mm	37±0.8mm	--	--	--	--
总行程 TT	90°	90°	90°	--	--	--	--	--	--	--

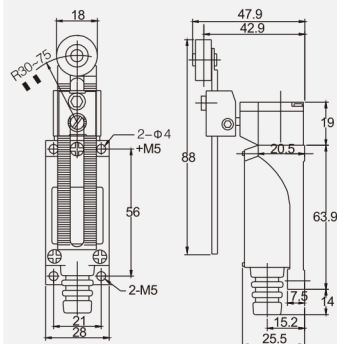
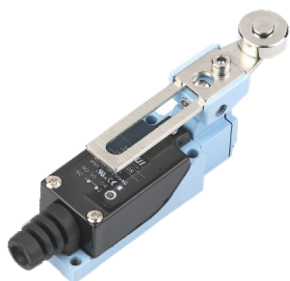
• 滚轮摆杆型
XZ-8104



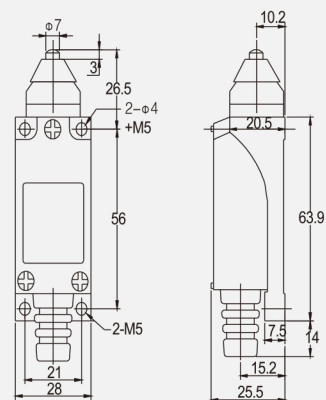
• 可调圆棒摆杆型
XZ-8107



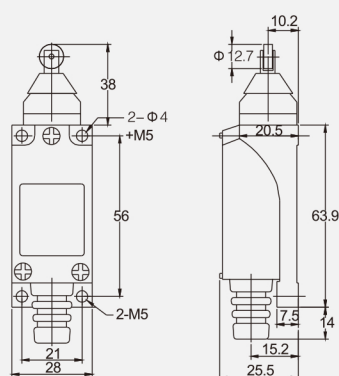
• 可调滚轮摆杆型
XZ-8108



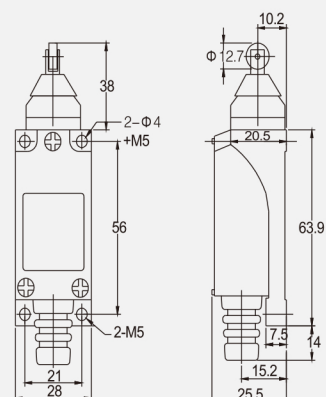
• 按钮型
XZ-8111



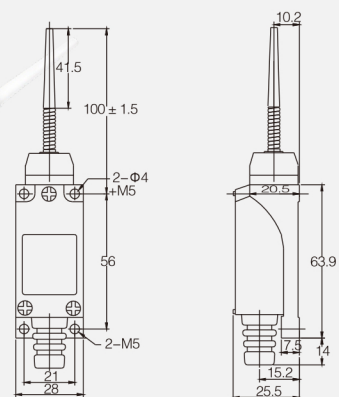
• 滚轮按钮型
XZ-8112



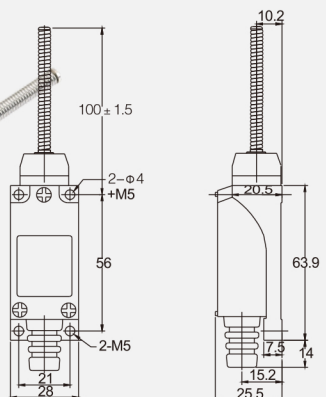
• 交叉滚轮按钮型
XZ-8122



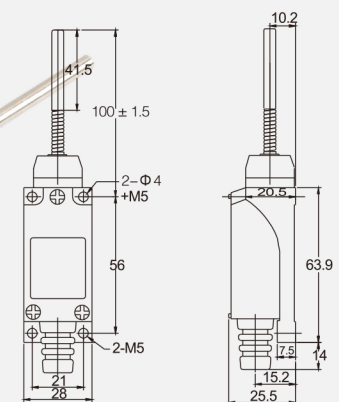
• 万向式塑料端头弹簧摇杆型
XZ-8166



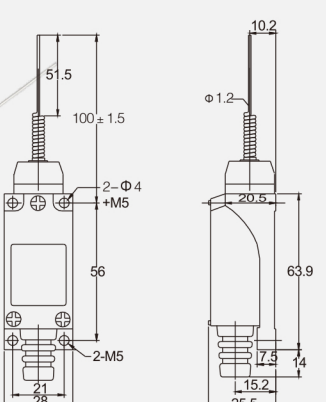
• 万向式弹簧摇杆型
XZ-8167



• 万向式金属端头弹簧摇杆型
XZ-8168



• 万向式触须端头弹簧摇杆型
XZ-8169

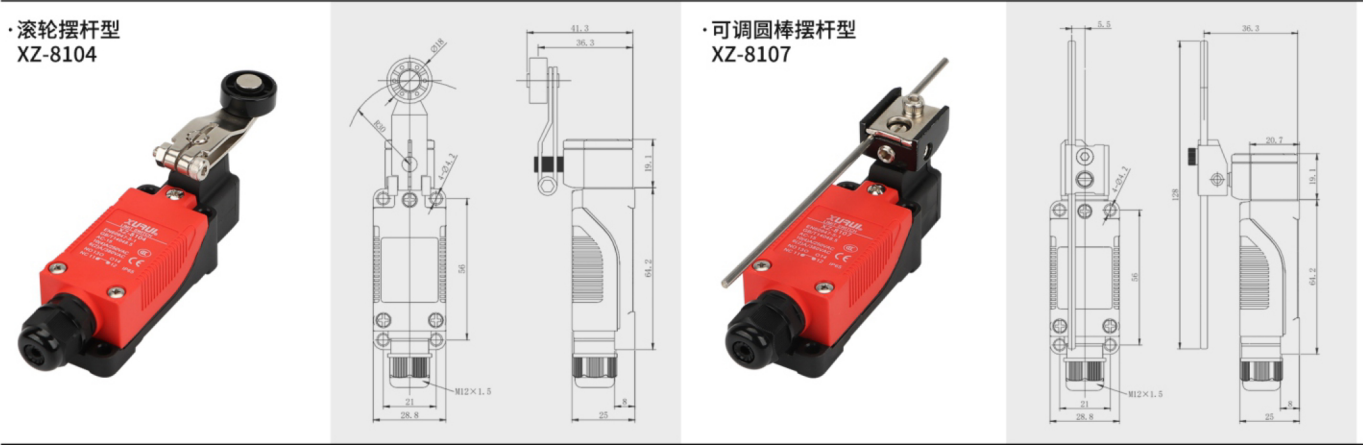


□ 性能参数 Specification

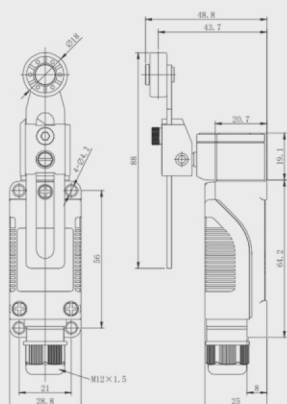
项 目 Item	参数值	Date
额定负荷 Rating load	10(4)A/250VAC; 6(2)A 380VAC	
操作速度 Operation speed	5mm-50cm/s	
操作频率 Operating frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100MΩ以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ(初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP65	
使用温度 Operating temperature	-20~+60°C	
使用湿度 Operating humidity	<85%	

□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

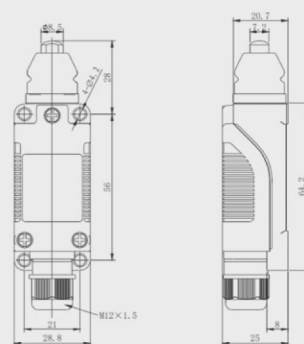
型号 Models	XZ-8104	XZ-8107	XZ-8108	XZ-8111	XZ-8112	XZ-8122	XZ-8166	XZ-8167	XZ-8168	XZ-8169
动作力 OF max.	700g(6.86N)	700g(6.86N)	800g(7.84N)	1100g(10.78N)	1100g(10.78N)	1100g(10.78N)	1000g(9.8N)	1000g(9.8N)	1000g(9.8N)	1000g(9.8N)
回复力 RF min.	60g(0.59N)	70g(0.69N)	60g(0.59N)	250g(2.45N)	250g(2.45N)	250g(2.45N)	--	--	--	--
预行程 PT max.	30°	30°	30°	2mm	2mm	2mm	30mm	30mm	30mm	30mm
超行程 OT min.	60°	60°	60°	0.6mm	0.6mm	0.6mm	--	--	--	--
差行程 MD max.	15°	15°	15°	1mm	1mm	1mm	--	--	--	--
动作位置 OP	--	--	--	26±0.8mm	37±0.8mm	37±0.8mm	--	--	--	--
总行程 TT	90°	90°	90°	--	--	--	--	--	--	--



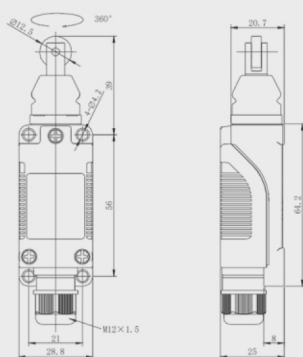
·可调滚轮摆杆型
XZ-8108



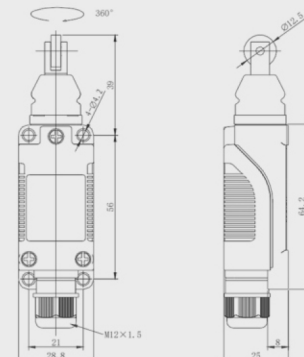
·按钮型
XZ-8111



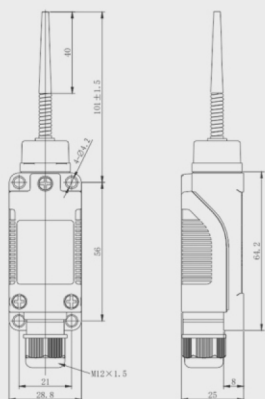
·滚轮按钮型
XZ-8112



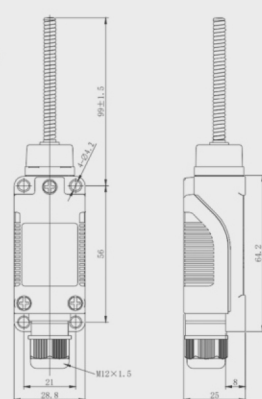
·交叉滚轮按钮型
XZ-8122



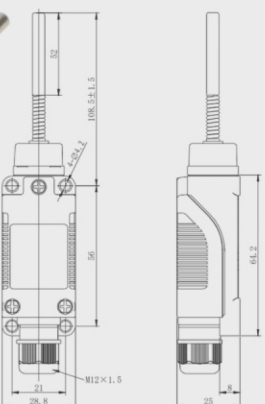
·万向式塑料端头弹簧摇杆型
XZ-8166



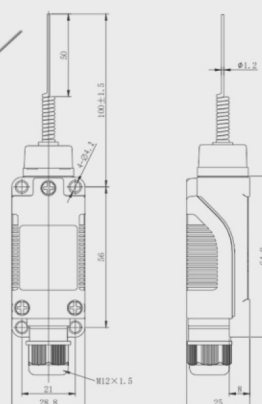
·万向式弹簧摇杆型
XZ-8167



·万向式金属端头弹簧摇杆型
XZ-8168



·万向式触须端头弹簧摇杆型
XZ-8169

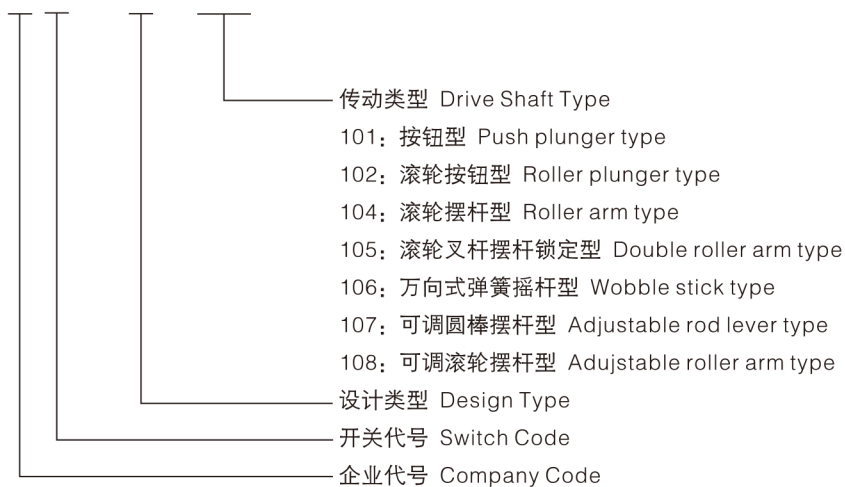


- 锌合金外壳，结构坚固，高机械强度；
- 具有防水、防油、防压等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong Zinc cast outer shell, strong structure and high mechanical strength;
- Preventing oil, water and pressure;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical equipment, automatic machine, and instrument, electro motion tool etc.

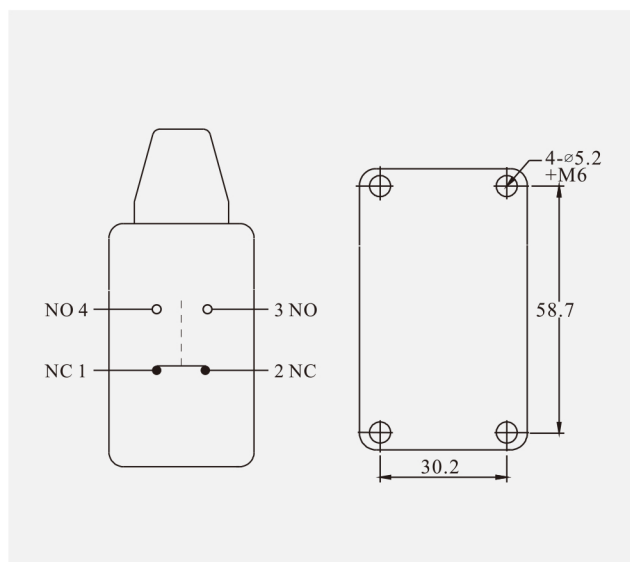


□ 型号含义 Model & Meanings

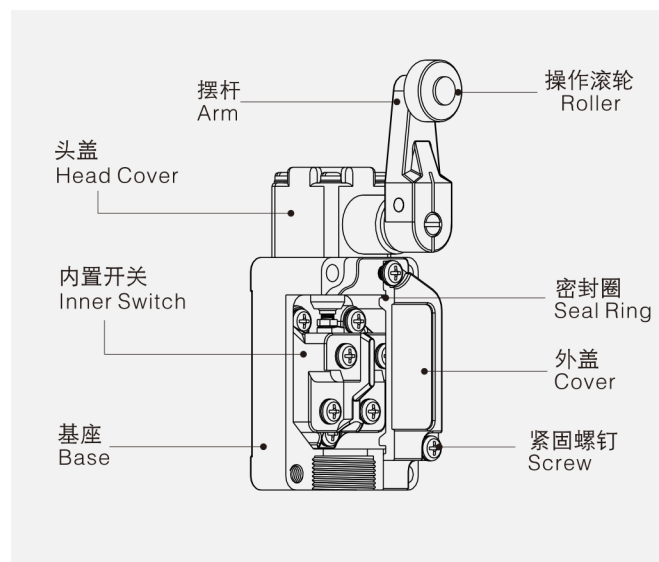
X Z - 5 / 101



□ 安装孔尺寸及触点形式 Mounting Holes & Contact Form



□ 产品结构图 Product Structure



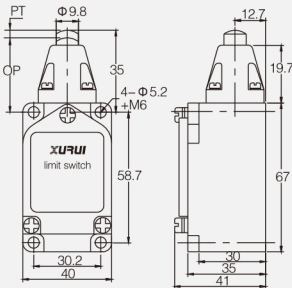
□ 性能参数 Specification

项 目 Item	参数值 Data	
额定负荷 Rating load	10A/250VAC	
操作速度 Operation speed	1mm-1m/s	
操作频率 Operation frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100mΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ 初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP66	
使用温度 Operating temperature	-10~+80℃	
使用湿度 Operating humidity	<85%	

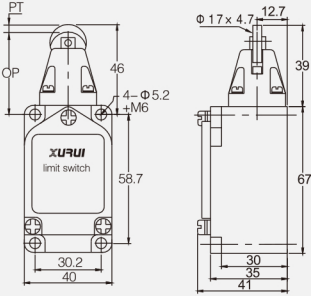
□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

型号 Models	XZ-5/101	XZ-5/102	XZ-5/104	XZ-5/105	XZ-5/106	XZ-5/107	XZ-5/108
动作力 OF max.	2750g(26.95N)	2750g(26.95N)	1400g(13.72N)	1200g(11.76N)	150g(1.47N)	1400g(13.72N)	1400g(13.72N)
回复力 RF min.	900g(8.82N)	900g(8.82N)	220g(2.13N)	--	--	220g(2.13N)	220g(2.13N)
预行程 PT max.	1.7mm	2mm	45°	45°	22mm	30°	30°
超行程 OT min.	4mm	5mm	10°	10°	--	25°	25°
差行程 MD max.	1.2mm	1.5mm	20°	12°	--	20°	20°
动作位置 OP	34 ± 0.8mm	44 ± 0.8mm	--	--	--	--	--
总行程 TT	--	--	55°	55°	--	55°	55°

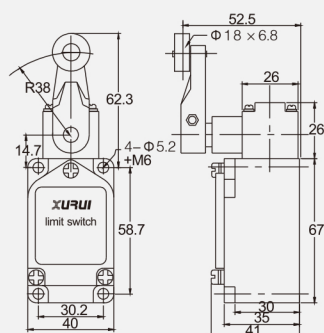
• 按钮型
XZ-5/101



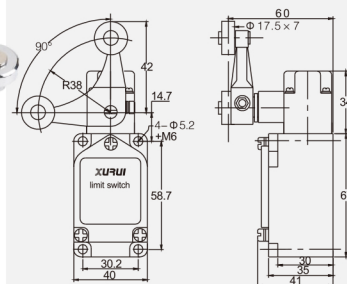
• 滚轮按钮型
XZ-5/102



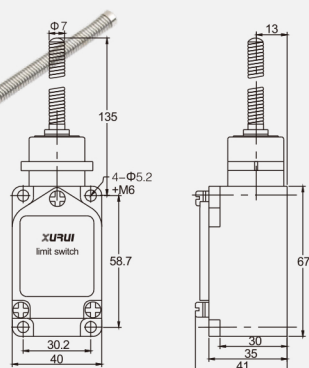
• 滚轮摆杆型
XZ-5/104



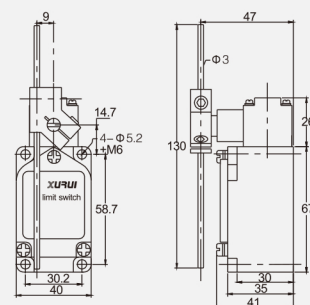
• 滚轮叉杆摆杆锁定型
XZ-5/105



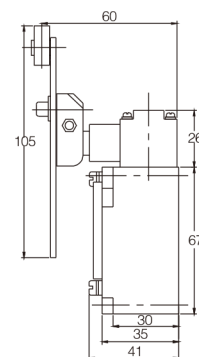
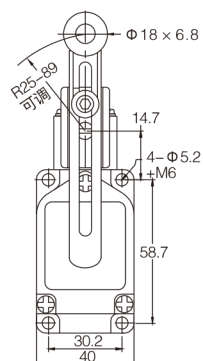
• 万向式弹簧摇杆型
XZ-5/106



• 可调圆棒摆杆型
XZ-5/107



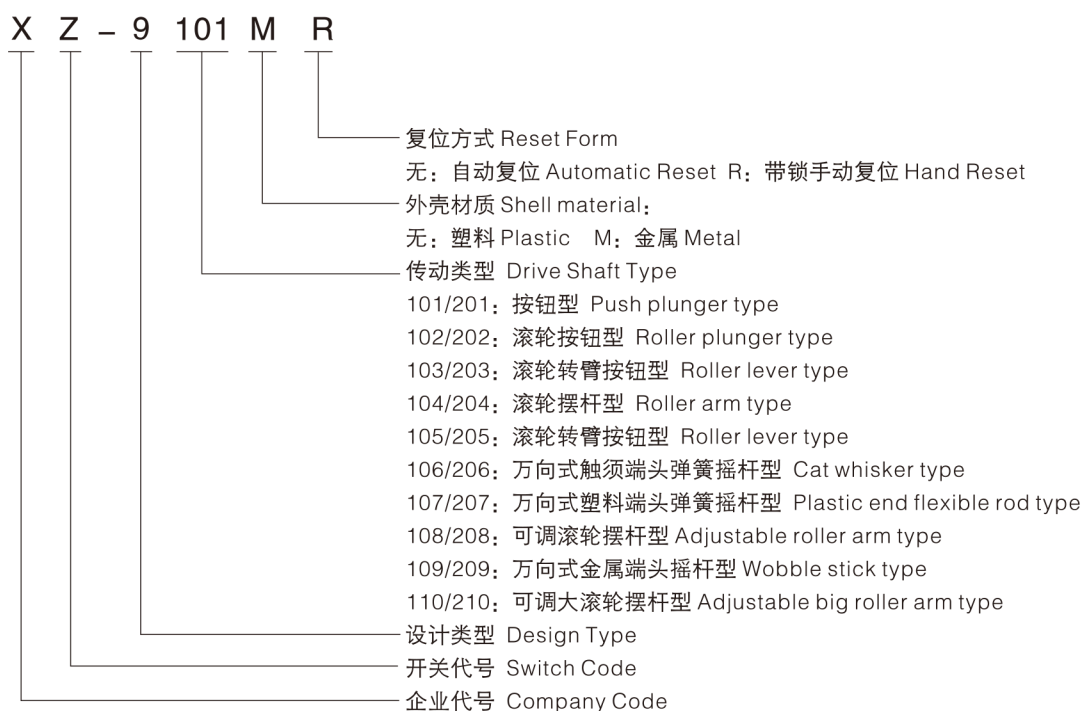
• 可调滚轮摆杆型
XZ-5/108



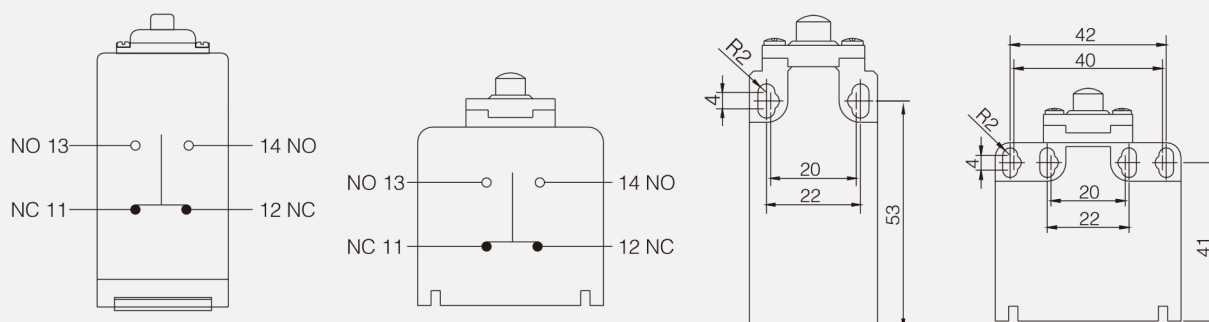
- 经济型塑料外壳，重量轻；
- 具有防水、防油、等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Economic plastic housing, light weight;
- Preventing oil and water ;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical equipment ,automatic machine, and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings



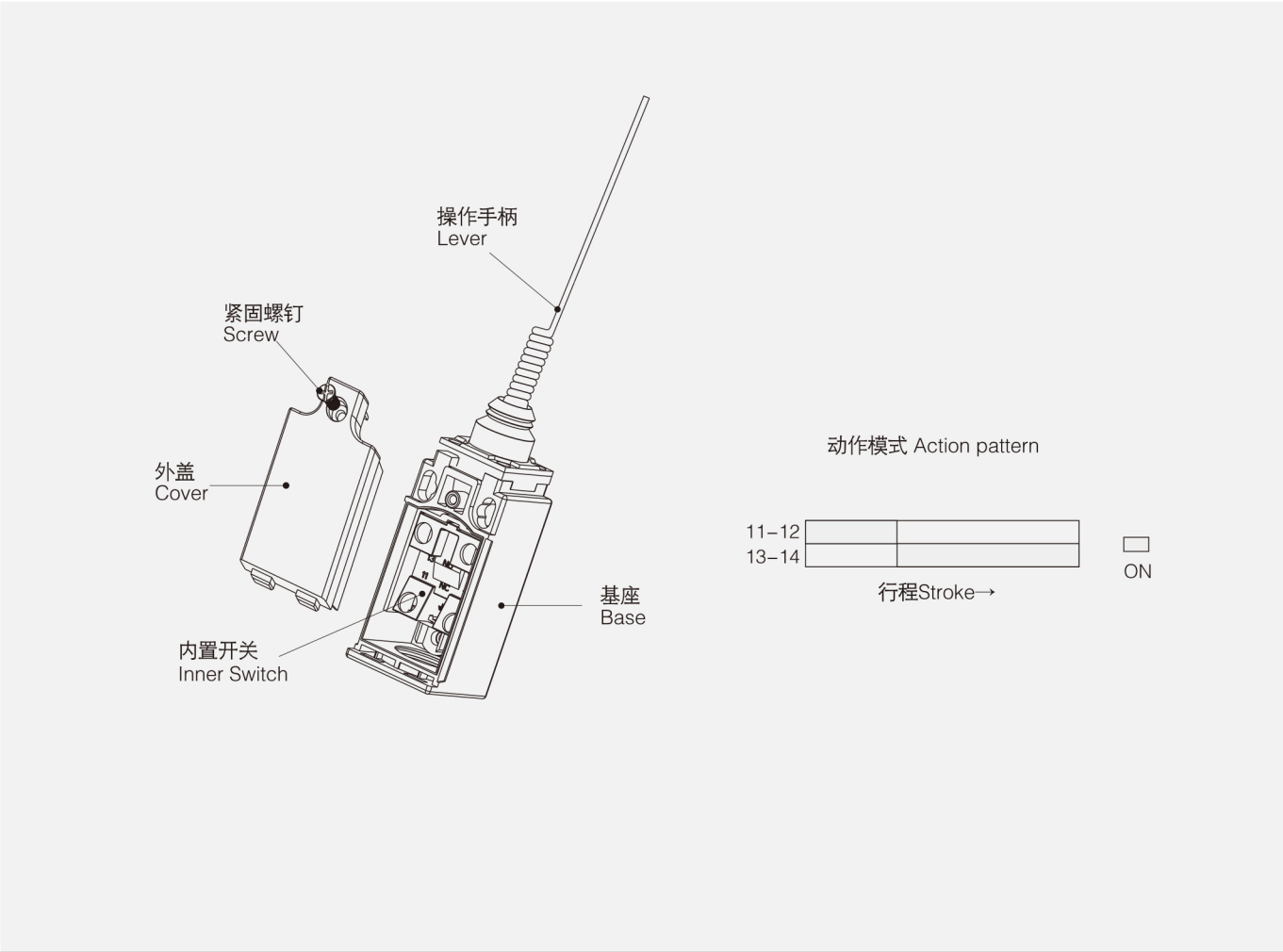
□ 触点形式及安装孔尺寸 Contact Forms&Mounting Hole Dimensions



性能参数 Specification

项 目 Item		参数值 Data
额定负荷 Rating load		10(4)A/250VAC,6(2)A 380VAC
操作速度 Operation speed		5mm-0.5m/s
操作频率 Operation frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance		100mΩ 以上(Above) DC500V
接触电阻 Contact resistance		25mΩ 初值 initial value)
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s²
	误 动 作 Misoperation	300m/s²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree		IP65
使用温度 Operating temperature		-10~+70℃
使用湿度 Operating humidity		<85%

产品结构图 Product Structure

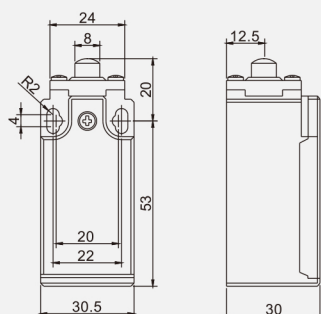


□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

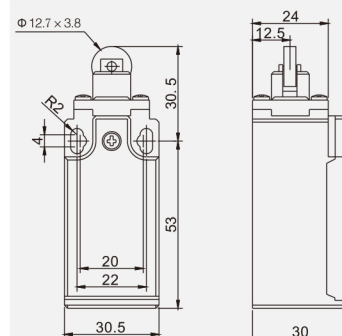
型号	Models	XZ-9101	XZ-9102	XZ-9102R	XZ-9103	XZ-9104	XZ-9105	XZ-9106	XZ-9107	XZ-9108	XZ-9109	XZ-9110
动作力	OF max.	700g(6.86N)	700g(6.86N)	700g(6.86N)	700g(6.86N)	500g(4.9N)	700g(6.86N)	100g(0.98N)	100g(0.98N)	500g(4.9N)	100g(0.98N)	500g(4.9N)
回复力	RF min.	180g(1.76N)	180g(1.76N)	180g(1.76N)	180g(1.76N)	80g(0.78N)	180g(1.76N)	30g(0.29N)	30g(0.29N)	80g(0.78N)	30g(0.29N)	80g(0.78N)
预行程	PT max.	2.5mm	2.5mm	2.5mm	2.5mm	30°	2.5mm	28mm	28mm	30°	28mm	30°
超行程	OT min.	3mm	3mm	3mm	3mm	70°	3mm	20mm	20mm	70°	20mm	70°
差行程	MD max.	1.2mm	1.2mm	1.2mm	1.2mm	15°	1.2mm	10mm	10mm	15°	10mm	15°
总行程	TT	5.8mm	5.8mm	5.8mm	5.8mm	90°	5.8mm	48mm	48mm	90°	48mm	90°

型号	Models	XZ-9110A	XZ-9201	XZ-9202	XZ-9203	XZ-9204	XZ-9205	XZ-9206	XZ-9207	XZ-9208	XZ-9209	XZ-9210
动作力	OF max.	500g(4.9N)	700g(6.86N)	700g(6.86N)	700g(6.86N)	500g(4.9N)	700g(6.86N)	100g(0.98N)	100g(0.98N)	500g(4.9N)	100g(0.98N)	500g(4.9N)
回复力	RF min.	80g(0.78N)	180g(1.76N)	180g(1.76N)	180g(1.76N)	80g(0.78N)	180g(1.76N)	30g(0.29N)	30g(0.29N)	80g(0.78N)	30g(0.29N)	80g(0.78N)
预行程	PT max.	30°	2.5mm	2.5mm	2.5mm	30°	2.5mm	28mm	28mm	30°	28mm	30°
超行程	OT min.	70°	3mm	3mm	3mm	70°	3mm	20mm	20mm	70°	20mm	70°
差行程	MD max.	15°	1.2mm	1.2mm	1.2mm	15°	1.2mm	10mm	10mm	15°	10mm	15°
总行程	TT	90°	5.8mm	5.8mm	5.8mm	90°	5.8mm	48mm	48mm	90°	48mm	90°

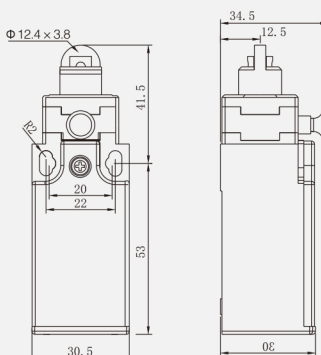
• 按钮型
XZ-9101



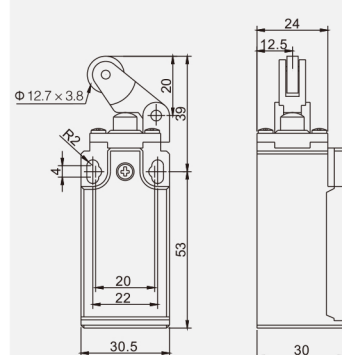
• 滚轮按钮型
XZ-9102



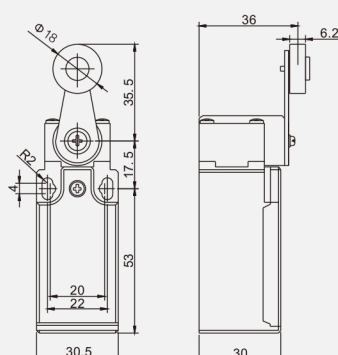
• 滚轮按钮手动复位型
XZ-9102R



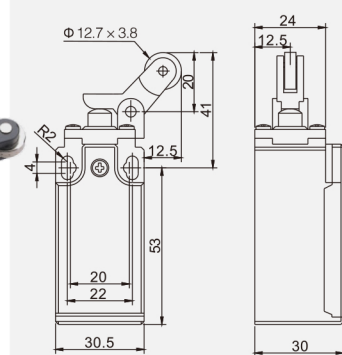
• 滚轮转臂按钮型
XZ-9103



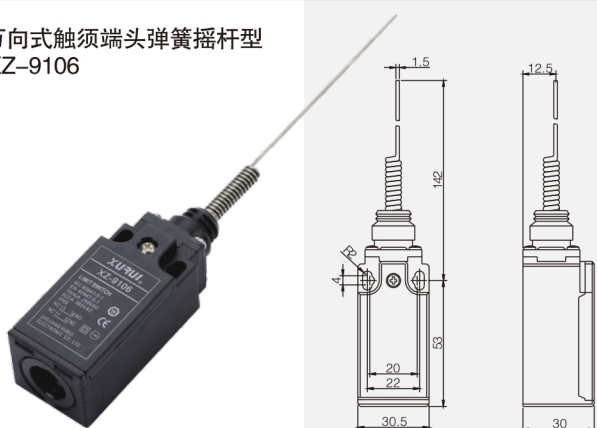
• 可调滚轮摆杆型
XZ-9104



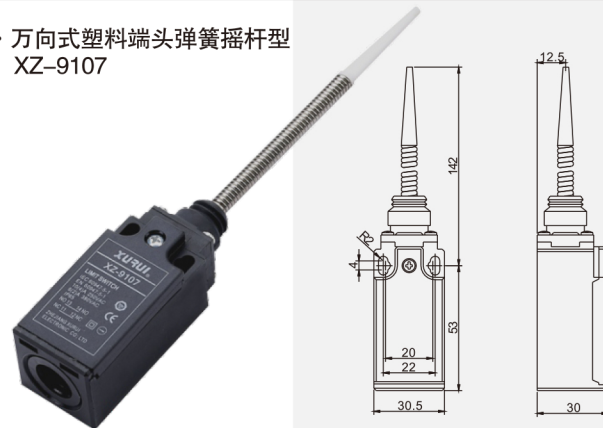
• 滚轮转臂按钮型
XZ-9105



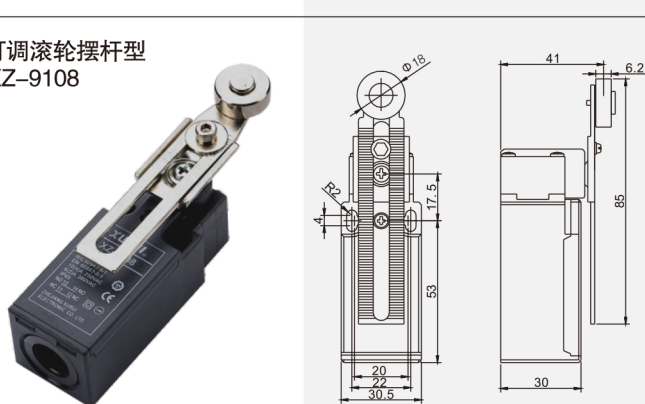
• 万向式触须端头弹簧摇杆型
XZ-9106



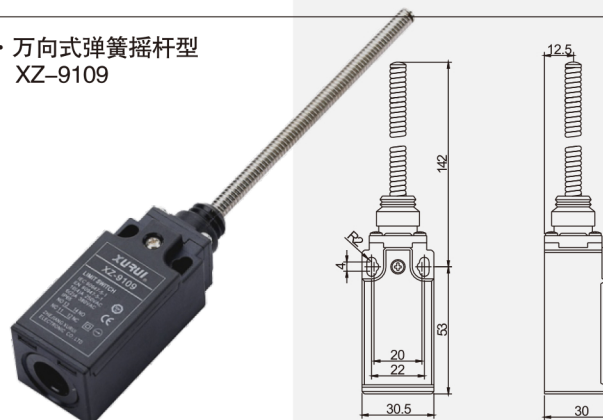
• 万向式塑料端头弹簧摇杆型
XZ-9107



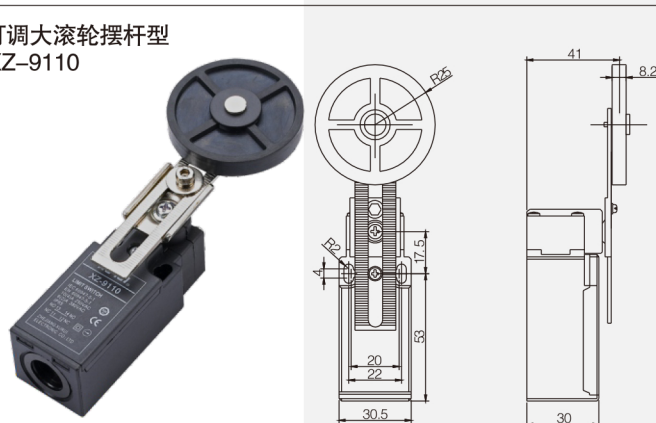
• 可调滚轮摆杆型
XZ-9108



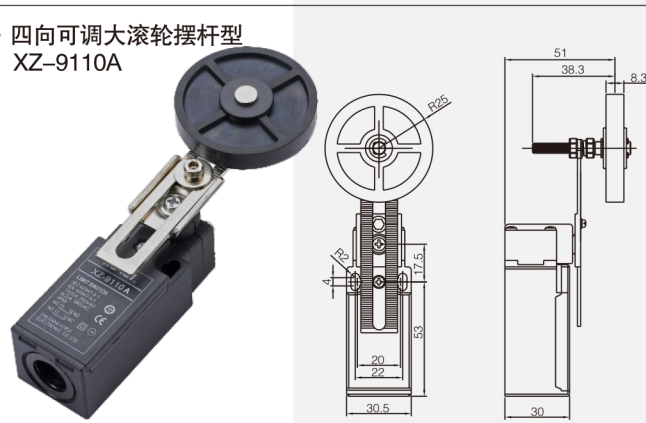
• 万向式弹簧摇杆型
XZ-9109



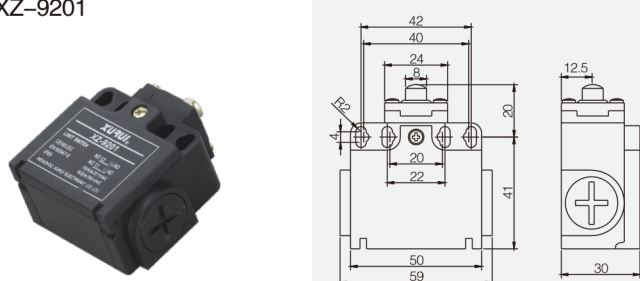
• 可调大滚轮摆杆型
XZ-9110



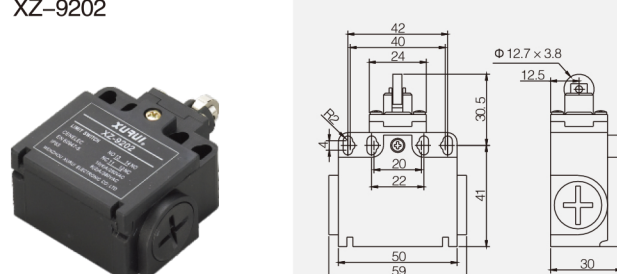
• 四向可调大滚轮摆杆型
XZ-9110A



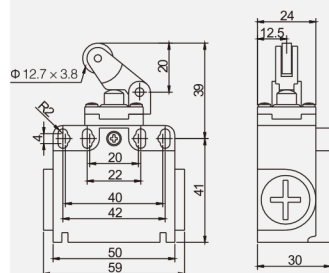
• 按钮型
XZ-9201



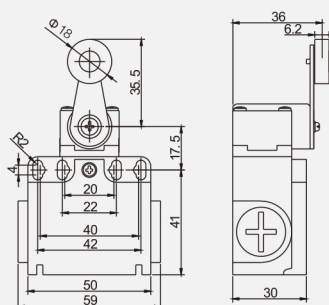
• 滚轮按钮型
XZ-9202



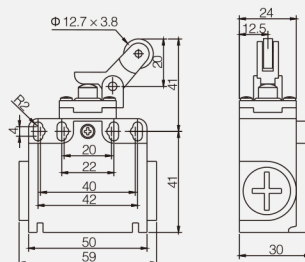
• 滚轮转臂按钮型
XZ-9203



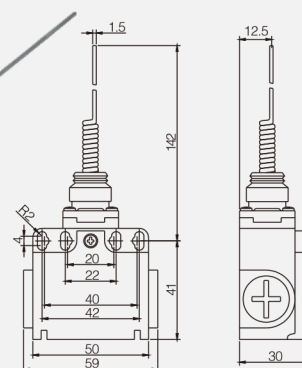
• 滚轮摆杆型
XZ-9204



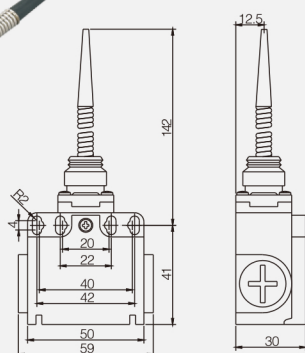
• 滚轮转臂按钮型
XZ-9205



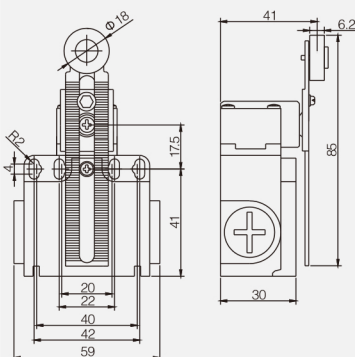
• 万向式触须端头弹簧摇杆型
XZ-9206



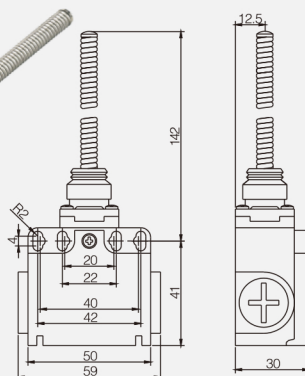
• 万向式塑料端头弹簧摇杆型
XZ-9207



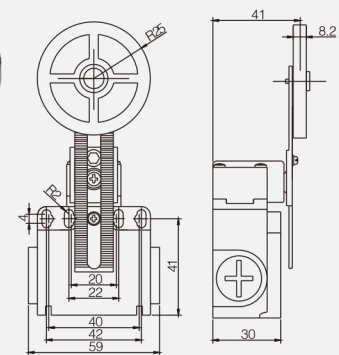
• 可调滚轮摆杆型
XZ-9208



• 万向式弹簧摇杆型
XZ-9209



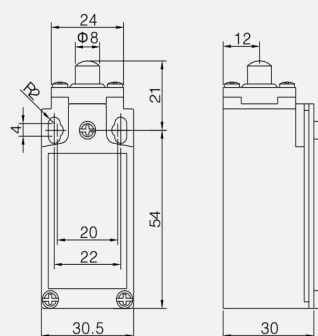
• 可调大滚轮摆杆型
XZ-9210



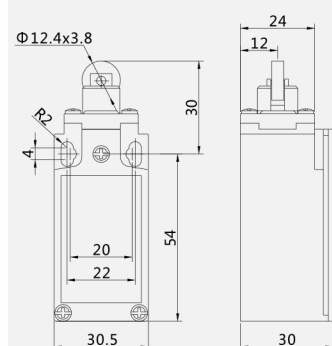
□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

型号	Models	XZ-9101M	XZ-9102M	XZ-9103M	XZ-9104M	XZ-9105(M)	XZ-9106M	XZ-9107M	XZ-9108(M)	XZ-9109M	XZ-9110M
动作力	OF max.	700g(6.86N)	700g(6.86N)	700g(6.86N)	500g(4.9N)	700g(6.86N)	100g(0.98N)	100g(0.98N)	500g(4.9N)	100g(0.98N)	500g(4.9N)
回复力	RF min.	180g(1.76N)	180g(1.76N)	180g(1.76N)	80g(0.78N)	180g(1.76N)	30g(0.29N)	30g(0.29N)	80g(0.78N)	30g(0.29N)	80g(0.78N)
预行程	PT max.	2.5mm	2.5mm	2.5mm	30°	2.5mm	28mm	28mm	30°	28mm	30°
超行程	OT min.	3mm	3mm	3mm	70°	3mm	20mm	20mm	70°	20mm	70°
差行程	MD max.	1.2mm	1.2mm	1.2mm	15°	1.2mm	10mm	10mm	15°	10mm	15°
总行程	TT	5.8mm	5.8mm	5.8mm	90°	5.8mm	48mm	48mm	90°	48mm	90°

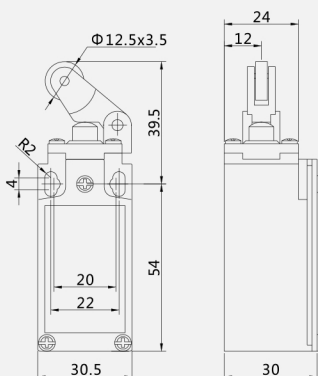
• 按钮型
XZ-9101M



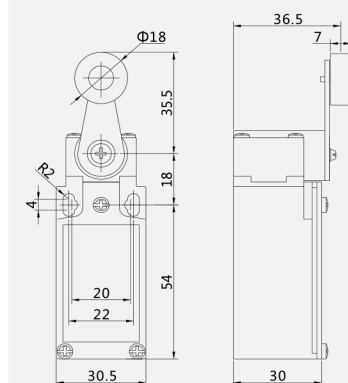
• 滚轮按钮型
XZ-9102M



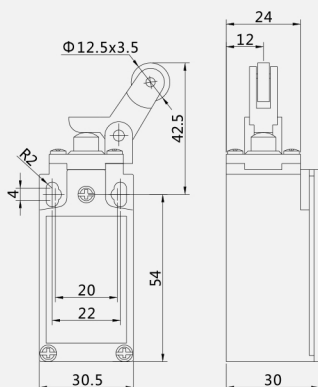
• 滚轮转臂按钮型
XZ-9103M



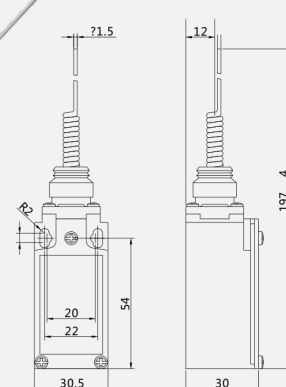
• 可调滚轮摆杆型
XZ-9104M



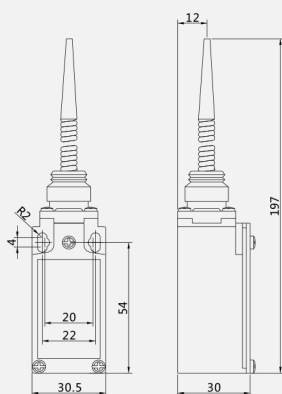
• 滚轮转臂按钮型
XZ-9105M



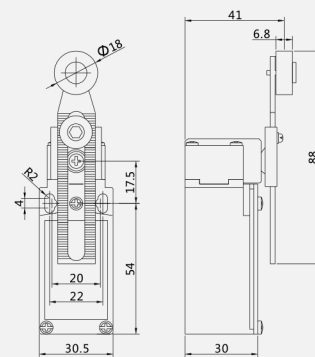
• 万向式触须端头弹簧摇杆型
XZ-9106M



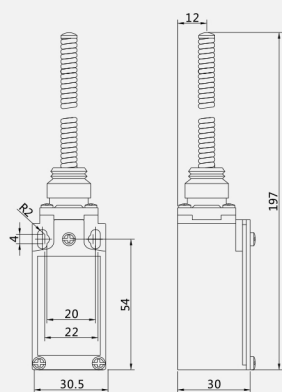
• 万向式塑料端头弹簧摇杆型
XZ-9107M



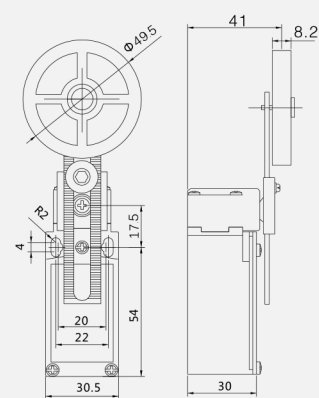
• 可调滚轮摆杆型
XZ-9108M



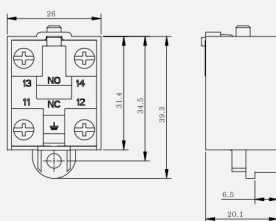
• 万向式弹簧摇杆型
XZ-9109M



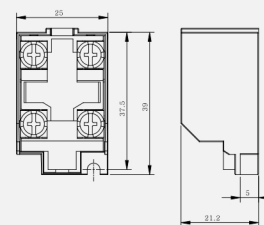
• 可调大滚轮摆杆型
XZ-9110M



• 内置开关
XZ-9/N10



• 内置开关
XZ-9/N3



- 经济型塑料外壳，重量轻；
- 具有防水、防油、等特点；
- 采用双回路形式，快动作慢动作可选，符合直接断开 ⊖ 操作结构；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Economic plastic housing, light weight;
- Preventing oil and water ;
- Double-circuit form, quick action slow motion optional, line with direct opening ⊖ operation structure ;
- Variety of levers;
- Widely used in Mechanical equipment ,automatic machine, and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings

X Z - 9 301

触点形式 Contact Form

无：1NO1NC C；2NC O；2NO

复位方式 Reset Form

无：自动复位 Automatic Reset R；带锁手动复位 Hand Reset

动作类型 Act Type S：慢动型 Slow Q：快动型 Quick

传动类型 Drive Shaft Type

301：按钮型 Push plunger type

302：滚轮按钮型 Roller plunger type

303：滚轮转臂按钮型 Roller lever type

304：滚轮摆杆型 Roller arm type

305：滚轮转臂按钮型 Roller lever type

306：万向式触须端头弹簧摇杆型 Cat whisker type

307：万向式塑料端头弹簧摇杆型 Plastic end flexible rod type

308：可调滚轮摆杆型 Adjustable roller arm type

309：万向式金属端头摇杆型 Wobble stick type

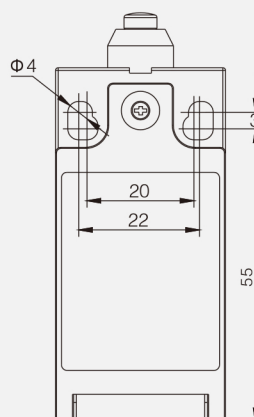
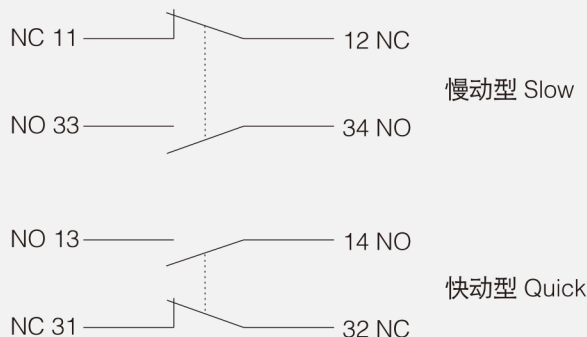
310：可调大滚轮摆杆型 Adjustable big roller arm type

设计类型 Design Type

开关代号 Switch Code

企业代号 Company Code

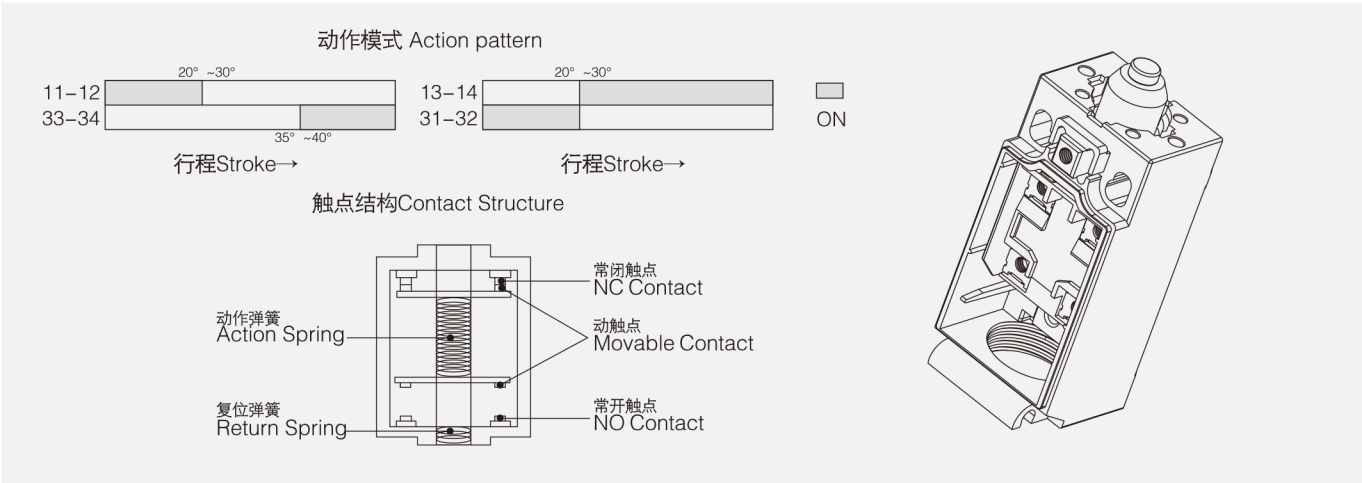
□ 触点形式及安装孔尺寸 Contact Forms & Mounting Hole Dimensions



□ 性能参数 Specification

项 目 Item		参数值 Data
额定负荷 Rating load		AC-15 3A/240VAC 0.27A/250VDC
操作速度 Operation speed		1mm-1m/s
操作频率 Operation frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance		100mΩ 以上(Above) DC500V
接触电阻 Contact resistance		25mΩ 初值 initial value)
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree		IP65
使用温度 Operating temperature		-10~+70℃
使用湿度 Operating humidity		<85%

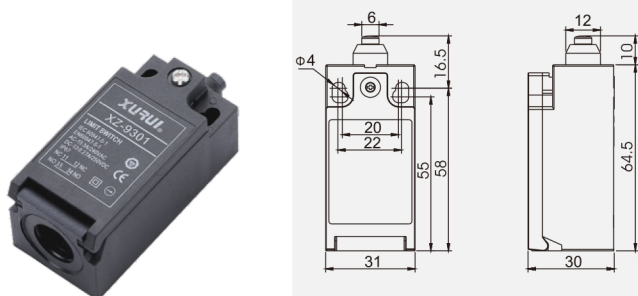
□ 产品结构图 Product Structure



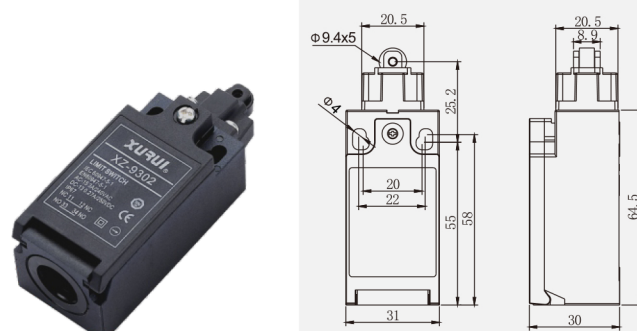
□ 外形尺寸/动作特性 Dimensions/Operating Characteristics

型号 Models		XZ-9301(S)	XZ-9302(S)	XZ-9304(S)	XZ-9308(S)	XZ-9310(S)
动作力 OF max.		660g(6.5N)	660g(6.5N)	500g(4.9N)	500g(4.9N)	500g(4.9N)
回复力 RF min.		150g(1.47N)	150g(1.47N)	50g(0.49N)	50g(0.49N)	50g(0.49N)
预行程 PT1 max.		2.2mm	2.2mm	20° ~ 30°	20° ~ 30°	20° ~ 30°
预行程 PT2 max.		3mm	3mm	30° ~ 40°	30° ~ 40°	30° ~ 40°
超行程 OT min.		3mm	3mm	40°	40°	40°
差行程 MD max.		1.2mm	1.2mm	20°	20°	20°
总行程 TT		6mm	6mm	80°	80°	80°

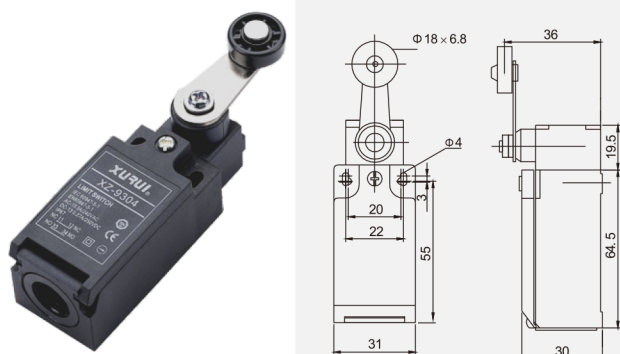
• 按钮型
XZ-9301



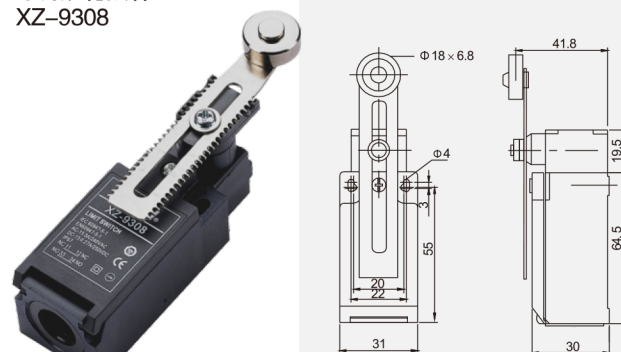
• 滚轮按钮型
XZ-9302



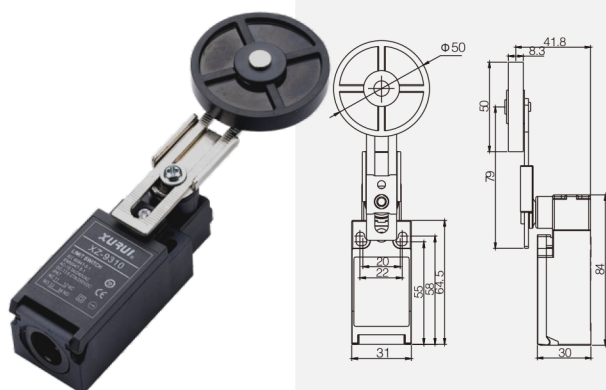
• 滚轮摆杆型
XZ-9304



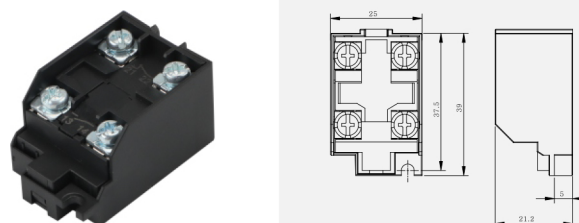
• 可调滚轮摆杆型
XZ-9308



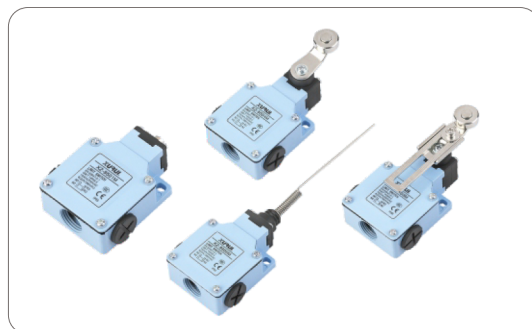
• 可调大滚轮摆杆型
XZ-9310



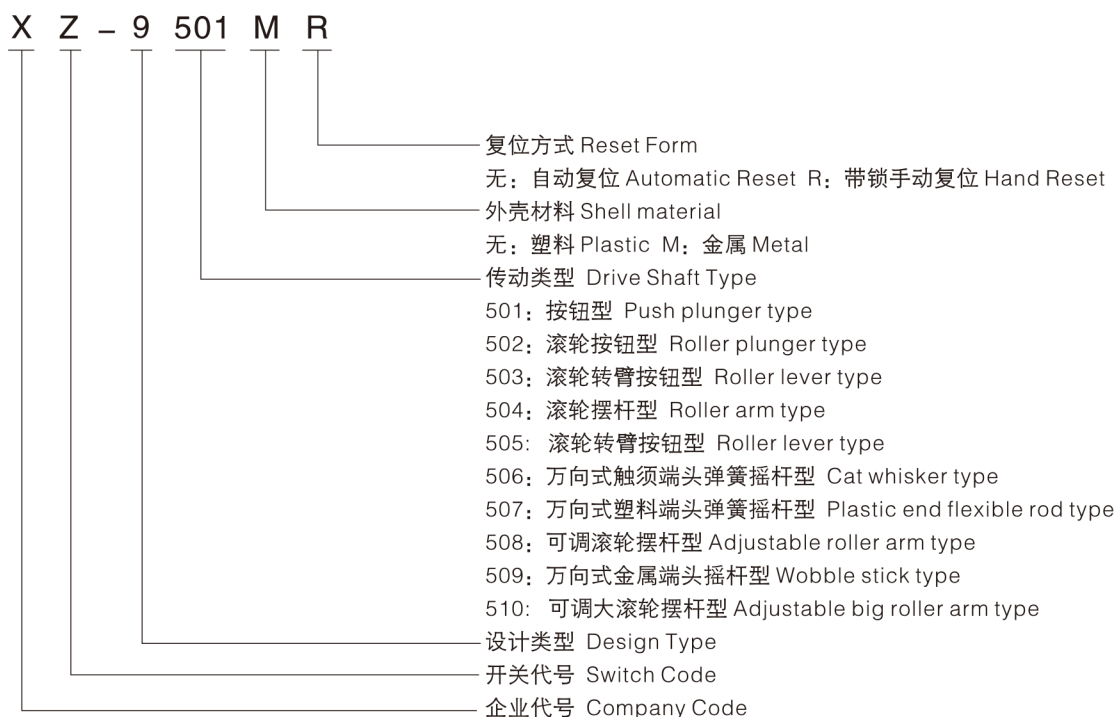
• 内置开关
XZ-9/N3



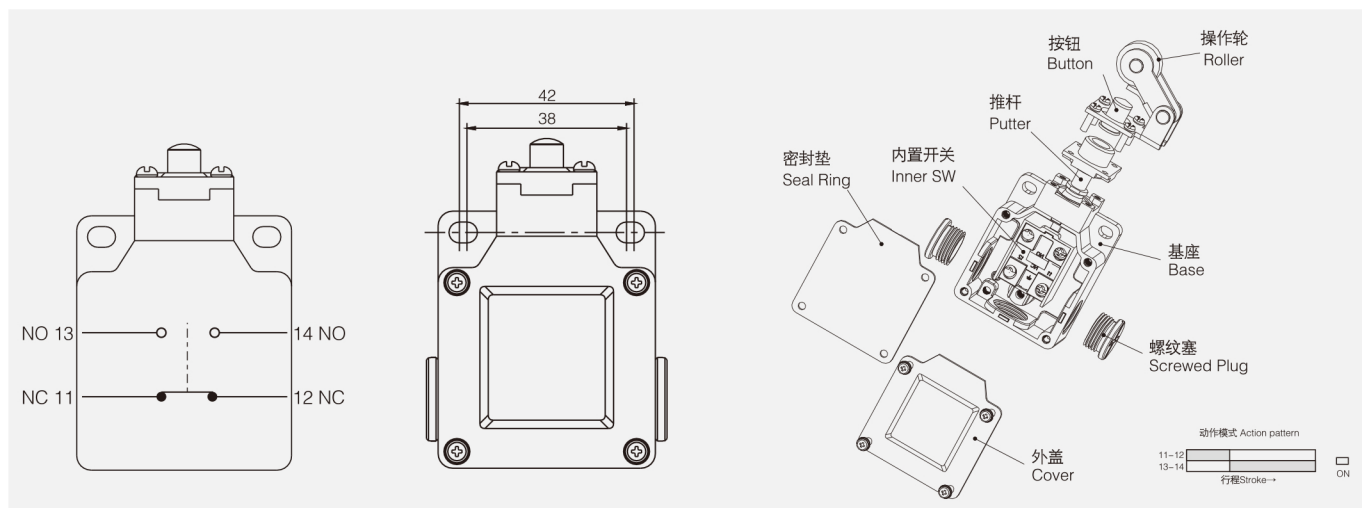
- 锌合金外壳，结构坚固，高机械强度；
- 具有防水、防油、等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong Zinc cast outer shell, strong structure and high mechanical strength;
- Preventing oil and water ;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical equipment ,automatic machine, and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings



□ 触点形式、安装孔尺寸、结构图 Contact Forms&Mounting Hole Dimensions&Product Structure

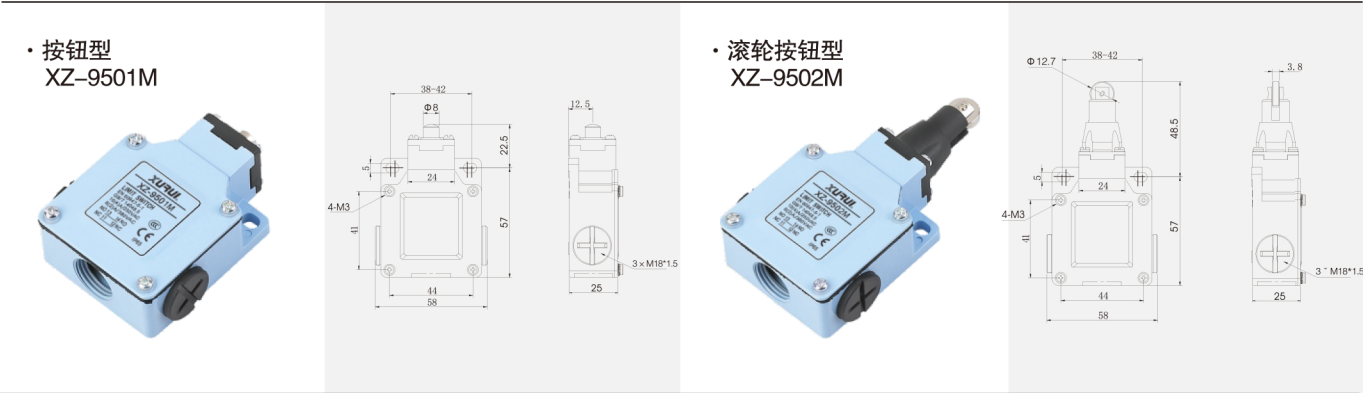


□ 性能参数 Specification

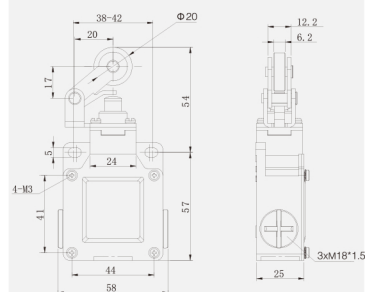
项 目 Item	参数值 Data	
额定负荷 Rating load	10(4)A/250VAC,6(2)A 380VAC	
操作速度 Operation speed	5mm-0.5m/s	
操作频率 Operation frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100mΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ 初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP65	
使用温度 Operating temperature	-10~+70℃	
使用湿度 Operating humidity	<85%	

□外形尺寸/动作特性 Dimensions / Operating Characteristics

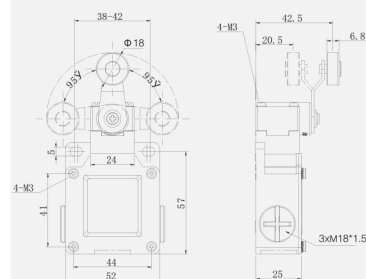
型号 Models	XZ-9501M	XZ-9502M	XZ-9503M	XZ-9504M	XZ-9505M	XZ-9506M	XZ-9507M	XZ-9508M	XZ-9509M	XZ-9510M
动作力 OF max.	700g(6.86N)	700g(6.86N)	700g(6.86N)	500g(4.9N)	700g(6.86N)	100g(0.98N)	100g(0.98N)	500g(4.9N)	100g(0.98N)	500g(4.9N)
回复力 RF min.	180g(1.76N)	180g(1.76N)	180g(1.76N)	80g(0.78N)	180g(1.76N)	30g(0.29N)	30g(0.29N)	80g(0.78N)	30g(0.29N)	80g(0.78N)
预行程 PT max.	2.5mm	2.5mm	2.5mm	30°	2.5mm	28mm	28mm	30°	28mm	30°
超行程 OT min.	3mm	3mm	3mm	70°	3mm	20mm	20mm	70°	20mm	70°
差行程 MD max.	1.2mm	1.2mm	1.2mm	15°	1.2mm	10mm	10mm	15°	10mm	15°
动作位置 OP	5.8mm	5.8mm	5.8mm	90°	5.8mm	48mm	48mm	90°	48mm	90°



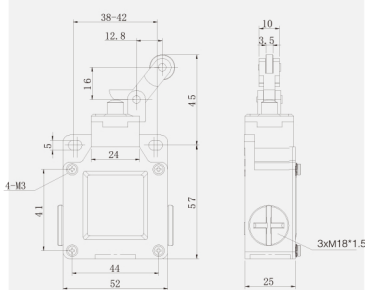
• 滚轮转臂按钮型
XZ-9503M



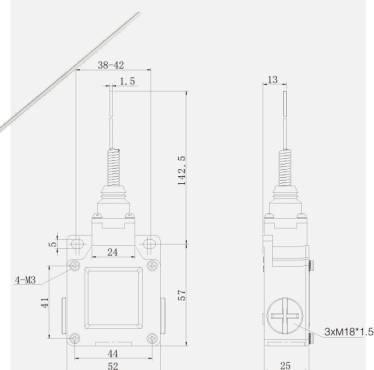
• 滚轮摆杆型
XZ-9504M



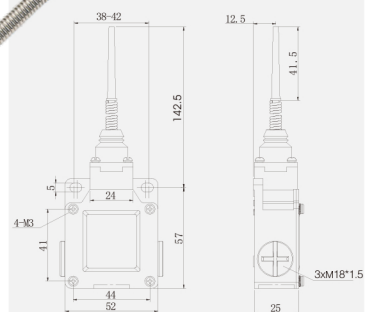
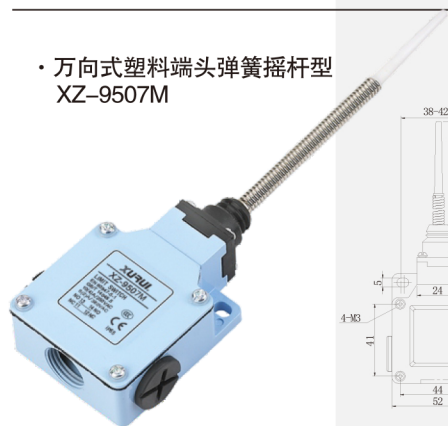
• 滚轮转臂按钮型
XZ-9505M



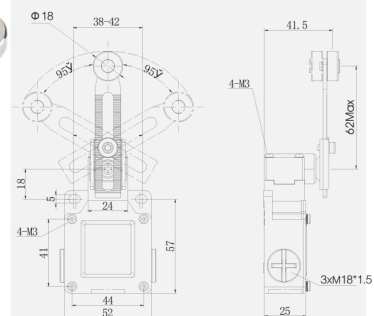
• 万向式塑料端头弹簧摇杆型
XZ-9506M



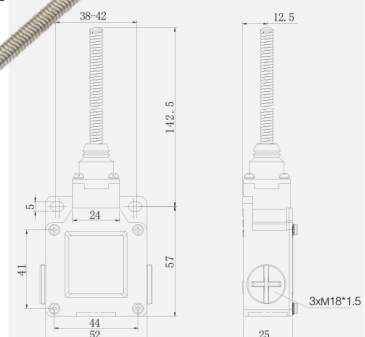
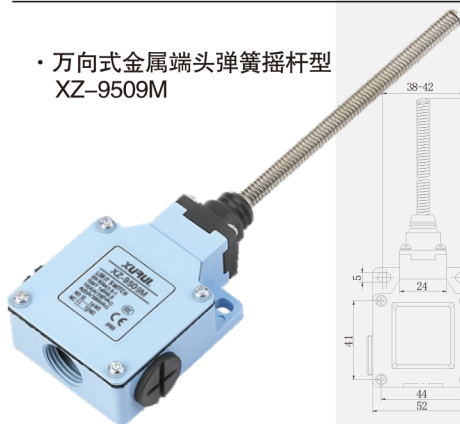
• 万向式塑料端头弹簧摇杆型
XZ-9507M



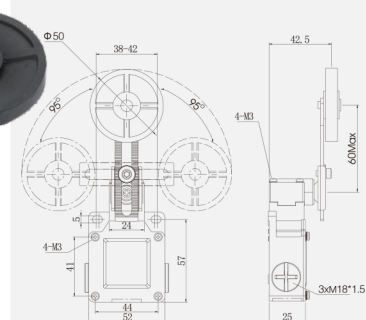
• 可调滚轮摆杆型
XZ-9508M



• 万向式金属端头弹簧摇杆型
XZ-9509M



• 可调大滚轮摆杆型
XZ-9510M

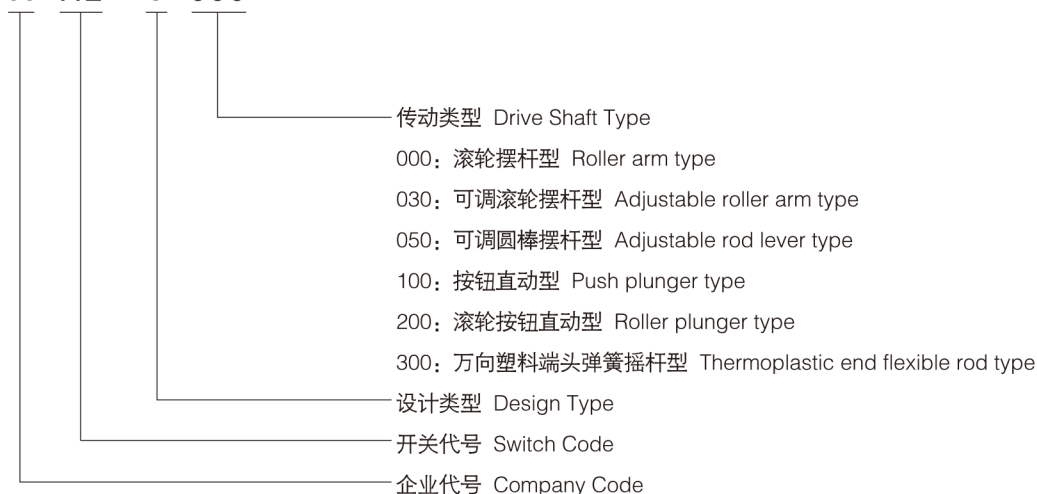


- 外壳由强化塑胶与锌合金组成，结构坚固，容易配线；
- 体积小，可防水、防油；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong structure, made of zinc metal alloy and plastics, easy to contact line;
- Small size, oil and water resistant ;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical equipment ,automatic machine, and instrument, electro motion tool etc.

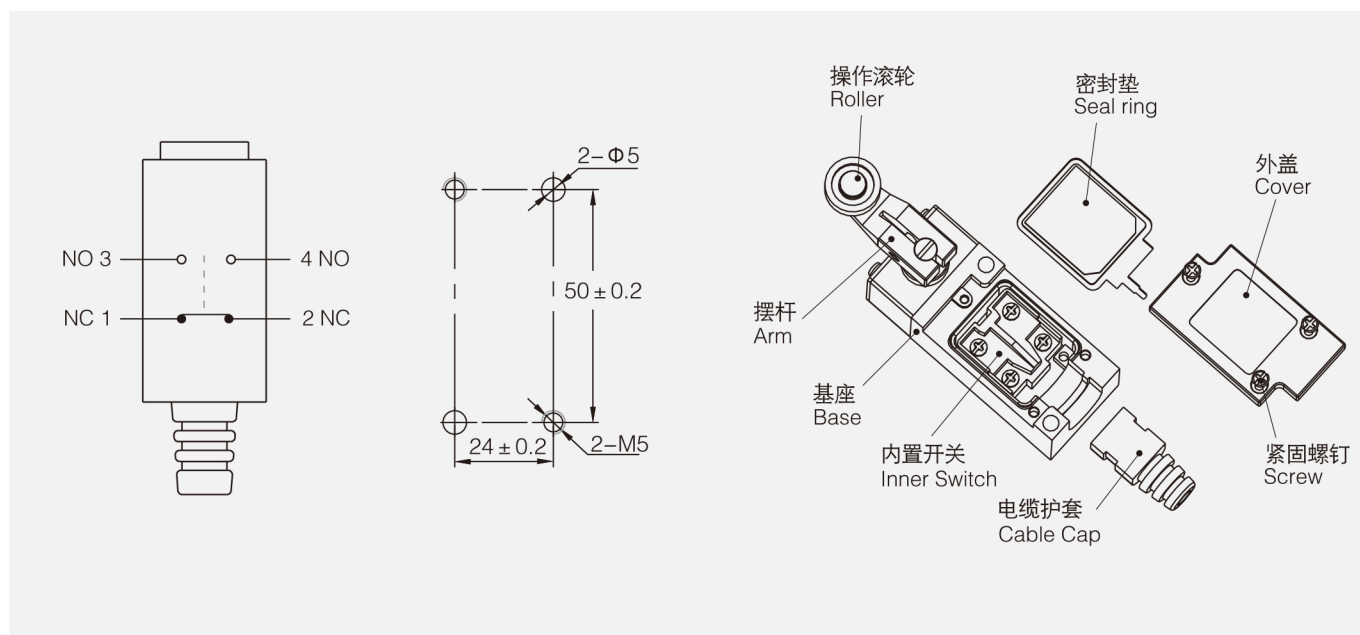


□ 型号含义 Model & Meanings

X HL - 5 000



□ 触点形式、安装孔尺寸、结构图 Contact Forms&Mounting Hole Dimensions&Product Structure

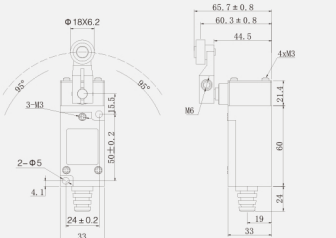
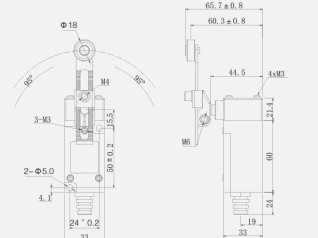
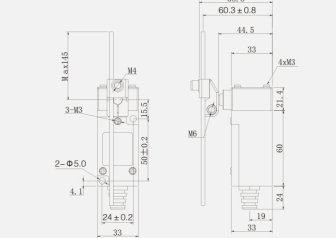
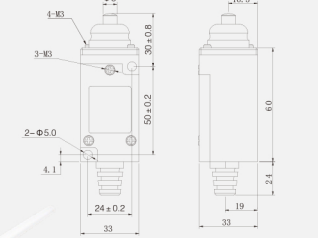
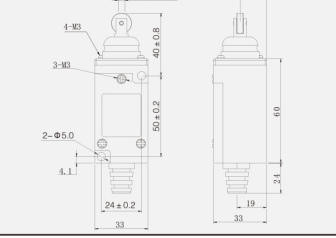
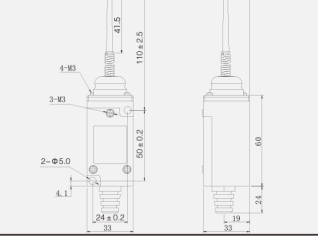


□ 性能参数 Specification

项 目 Item	参数值 Data	
额定负荷 Rating load	5A/250VAC	
操作速度 Operation speed	5mm~50cm/s	
操作频率 Operation frequency	机 械 Mechanical	120次/分 120times/min
	电 气 Electrical	30次/分 30times/min
绝缘电阻 Insulation resistance	100mΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ 初值 initial value)	
介质耐压 Withstand voltage	非 连 线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动 作 Misoperation	10~55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动 作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP65	
使用温度 Operating temperature	-20~+60℃	
使用湿度 Operating humidity	<85%	

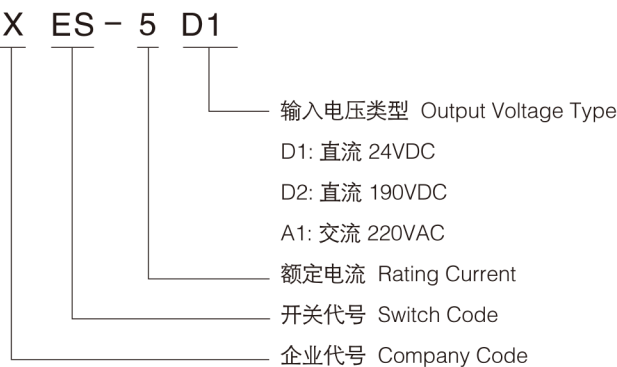
□外形尺寸/动作特性 Dimensions / Operating Characteristics

型号 Models	XHL-5000	XHL-5030	XHL-5050	XHL-5100	XHL-5200	XHL-5300
动作力 OF max.	500g(4.9N)	500g(4.9N)	500g(4.9N)	500g(4.9N)	700g(6.86N)	100g(0.98N)
回复力 RF min.	80g(0.78N)	80g(0.78N)	80g(0.78N)	80g(0.78N)	180g(1.76N)	30g(0.29N)
预行程 PT max.	30°	30°	30°	30°	2.5mm	28mm
超行程 OT min.	70°	70°	70°	70°	3mm	20mm
差行程 MD max.	15°	15°	15°	15°	1.2mm	10mm
动作位置 OP	90°	90°	90°	90°	5.8mm	48mm

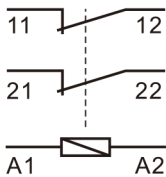
• 滚轮摆杆型 XHL-5000  	• 可调滚轮摆杆型 XHL-5030  
• 可调圆棒摆杆型 XHL-5050  	• 按钮型 XHL-5100  
• 滚轮按钮型 XHL-5200  	• 万向式弹簧摇杆型 XHL-5300  

- 经济型塑料外壳，重量轻；
- 防油、防水；
- 采用双回路形式、符合直接断开操作机构；
- 主要用于电梯的保护和控制。
- Economic plastic housing, light weight;
- Preventing oil and water;
- Double way switch, double spring inner switch;
- Mainly used in elevator protection and control.

□ 型号含义 Model & Meanings



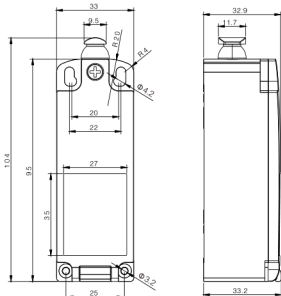
□ 触点形式 Contact Form



□ 性能参数 Specification

项 目 Item	参数值 Data
执行标准 Item	DIN EN 81, EN 60947-5-1
使用类别 Utilisation category	AC-15
额定负荷 Rating load	5A/400VAC
电磁线圈 Magnet	220VAC 50-60Hz 3%ED, 24VDC 3%ED, 190VDC 3%ED
操作频率 Operation frequency	最大接通时间 Turn on max.0.5s 最小断开时间 Turn off min.30s
绝缘电阻 Insulation resistance	100mΩ 以上(Above) DC500V
接触电阻 Contact resistance	25mΩ 初值 initial value)
介质耐压 Withstand voltage	2000VAC
寿 命 Life	电 气 Electrical 100,000次以上 above 机 械 Mechanical 1,000,000次以上 above
防护等级 Protection degree	IP65
使用温度 Operating temperature	-20~+60℃
使用湿度 Operating humidity	<85%

□ 外形尺寸/动作特性 Dimensions / Operating Characteristics



动作力	OF max.	800g(8N)
复位力	RF min.	1000g(10N)
预行程	PT max.	3mm
超行程	OT min.	--
差行程	MD max.	0
总行程	T T	3mm

- 增强塑料外壳，防油、防水；
- 多组镀金银触点组合，灵活配置；
- 高锁定力，可达1300N；
- 指示灯指示工作状态，配置紧急解锁功能；
- 配置6种操作钥匙；
- 用于工业领域安全门的开启和保护装置。

- Reinforced plastic shell, oil-proof, and waterproof
- Multiple sets of gold-plated silver contact combination, flexible configuration
- High locking force, up to 1300 N
- The indicator light indicates the working status, Configure the emergency unlock function.
- Equipped with 6 types operation keys.
- Opening and protection devices for safety doors in the industrial field



□ 型号含义 Model & Meanings

X EL - K E VA P F 1

出线孔类型 Type of outlet hole

1: M20 2: PG13.5

紧急解锁旋钮位置 The position of emergency unlock knob

F: 正面 Front S: 侧面 Side

头部材质 Head material

M: 金属 Metal P: 塑料 Plastic

S型开关触点类型(门控触点+锁定监控触点)

S-type switch contact type (Gating contacts + Lock monitoring contacts)

A: 1NC(慢动Slow)+1NC(慢动Slow)

B: 无None+2NC(慢动Slow)

C: 2NC(慢动Slow)+无None

D: 1NC/1NO(慢动Slow)+无None

E: 2NC/1NO(慢动Slow)+2NC/1NO(慢动Slow)

F: 3NC(慢动Slow)+2NC/1NO(慢动Slow)

B型开关触点类型(门控触点+锁定监控触点)

B-type switch contact type (Gating contacts + Lock monitoring contacts)

E: 2NC/1NO(慢动Slow)+2NC/1NO(慢动Slow)

F: 3NC(慢动Slow)+2NC/1NO(慢动Slow)

G: 2NC/1NO(慢动Slow)+3NC(慢动Slow)

H: 3NC(慢动Slow)+3NC(慢动Slow)

K型开关触点类型(门控触点+锁定监控触点)

K-type switch contact type (Gating contacts + Lock monitoring contacts)

VA: 1NC/1NO(慢动Slow)+1NC/1NO(慢动Slow)

VB: 1NC/1NO(慢动Slow)+2NC(慢动Slow)

VC: 2NC(慢动Slow)+1NC/1NO(慢动Slow)

VD: 2NC(慢动Slow)+2NC(慢动Slow)

VE: 1NC/2NO(慢动Slow)+1NC(慢动Slow)

VF: 3NC(慢动Slow)+1NC(慢动Slow)

VG: 2NC/1NO(慢动Slow)+1NC(慢动Slow)

VH: 1NC(慢动Slow)+3NC(慢动Slow)

VI: 1NC(慢动Slow)+1NC/2NO(慢动Slow)

VJ: 1NC(慢动Slow)+2NC/1NO(慢动Slow)

VW: 1NO(慢动Slow)+3NC(慢动Slow)

VX: 1NO(慢动Slow)+2NC/1NO(慢动Slow)

VY: 2NC(慢动Slow)+2NO(慢动Slow)

VZ: 2NO(慢动Slow)+2NC(慢动Slow)

锁定方式 lock mode

E: DC24V电磁锁定/机械释放 DC24V Electromagnetic locking/Mechanical release

M: 机械锁定/DC24V电磁释放 Mechanical lock/DC24V Electromagnetic release

X: AC110V电磁锁定/机械释放 AC110V Electromagnetic lock/Mechanical release

Y: 机械锁定/AC110V电磁释放 Mechanical lock, AC110V electromagnetic release

开关代号 Switch Code

电磁锁开关 Electromagnetic Lock Switch

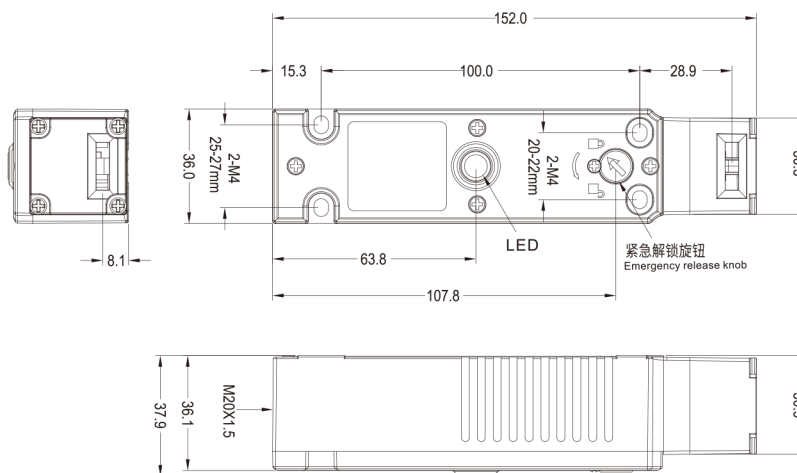
企业代号 Company Code

□ 性能参数 Specification

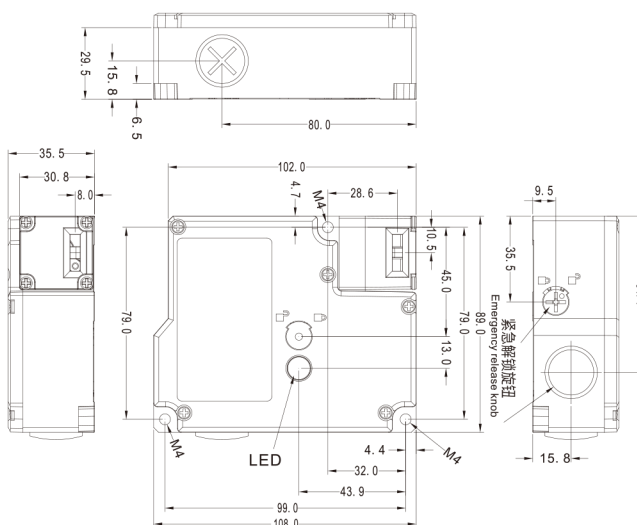
项 目 Item	参数值 Data	
执行标准 Item	EN 60947-5-1	
使用类别 Utilisation category	AC-15;DC-13	
额定负荷 Rating load	3A/240VAC;2.3A/30VDC	
锁定抗拉强度 Locking Tensile Strength	1300N	
操作速度 Operation speed	5mm-0.5m/s	
操作频率 Operation frequency	20次/分 20times/min	
绝缘电阻 Insulation resistance	100mΩ 以上(Above) DC500V	
接触电阻 Contact resistance	25mΩ 初值 initial value)	
介质耐压 Withstand voltage	2000VAC	
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	1,000,000次以上 above
防护等级 Protection degree	IP67	
使用温度 Operating temperature	-20~+60℃	
使用湿度 Operating humidity	<85%	

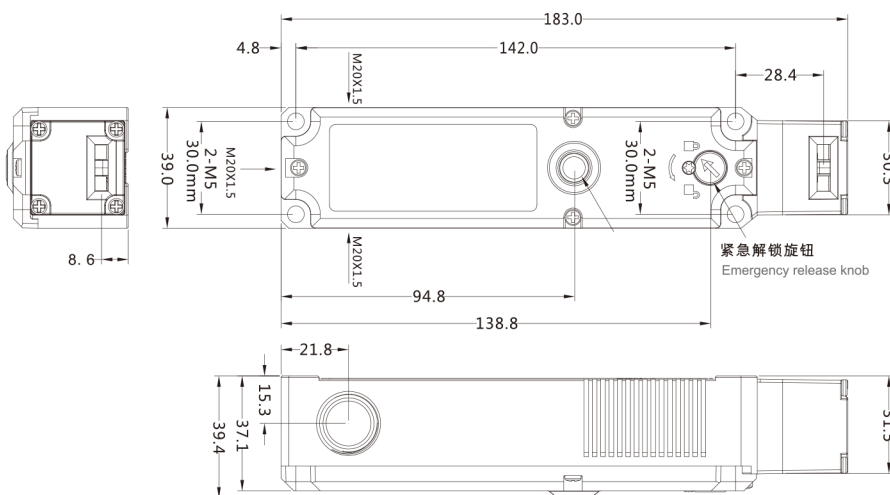
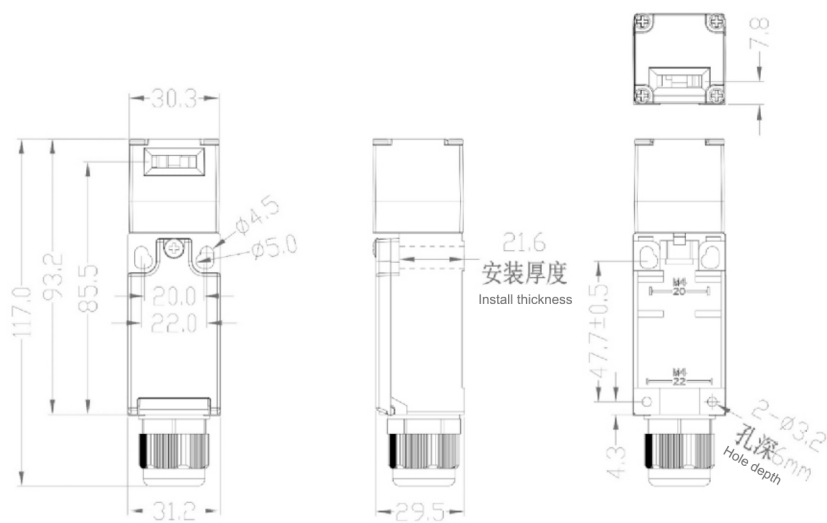
□ 外形尺寸 Dimensions

XEL-S



XEL-B



[illegible][illegible]

A 3D perspective view of a metal bracket. It features a vertical plate with two circular holes, one above the other. A horizontal plate extends from the top of the vertical plate, containing a rectangular slot. The bracket is shown in a light gray color with a metallic texture.



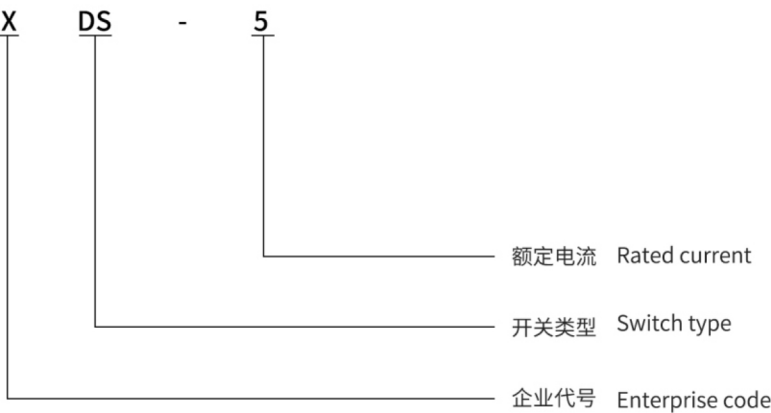
X-K6

特点及用途 Features & Uses

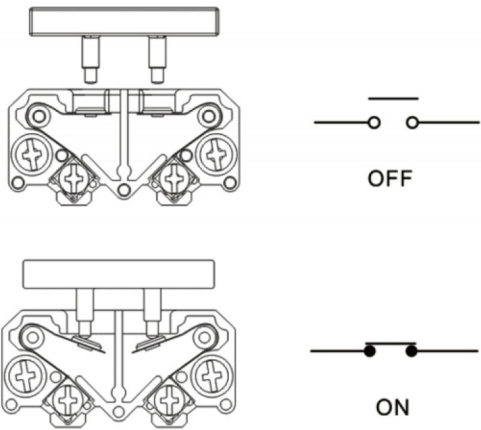
- 分体式独立驱动器；
 - 接触式电信号控制开关；
 - 银合金触点，可靠性高；
 - 采用进口簧片生产，寿命长，产品结构小巧，便于安装；
 - 广泛用于电梯门机控制电路。
- Separate actuator;
 - Such contact type and electrical signal control switch;
 - Silver contact style with high reliability;
 - Foreign-made reed make life much higher,compact structure make mounting much easier;
 - Comprehensively applied in elevator control circuit



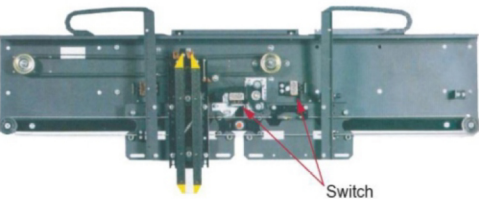
型号含义 Model & Meanings



触点形式 Model & Meanings



安装示例 Mounting



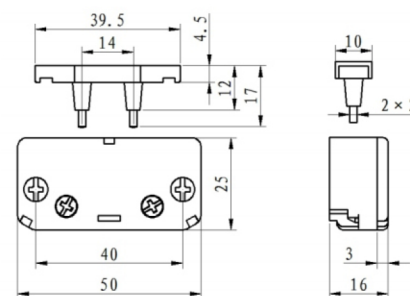
额定参数 Rated parameters

Uimp	2.5KV
Ith	8A
Ui	250V
AC-15	230V/5A

□ 技术参数 Technical Parameters

项目	参数
使用标准 Standards	DIN EN 81, IEC 60947-5-1
使用类别 Utilisation category	AC-15
额定容量 Rating	5A/230VAC
绝缘电阻 Insulation resistance	$\geq 100\text{M}\Omega$ (DC500V)
接触电阻 Contact resistance	$\leq 50\text{m}\Omega$ (initial value)
介质耐压 Withration voltage	$\geq 2000\text{VAC}$
机械寿命 Mechanical life	$\geq 1,000,000$
电气寿命 Electrical life	$\geq 100,000$
防护等级 Protection degree	IP20

□ 外形尺寸 Dimensions



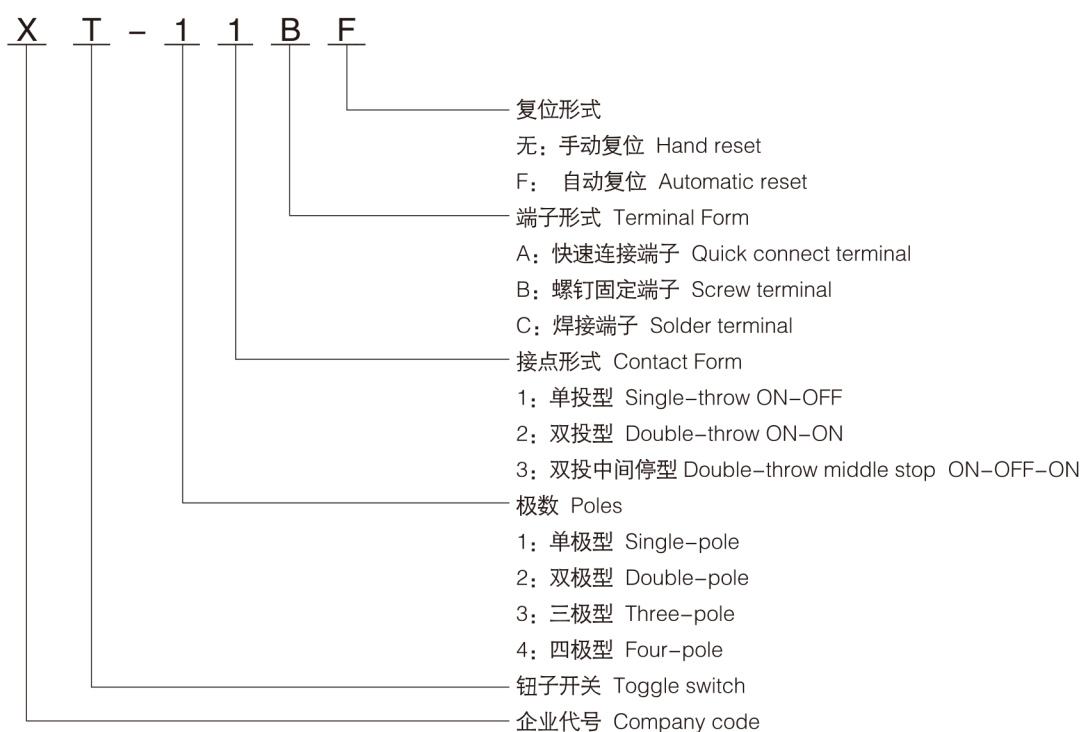
□ 注意事项与使用方法 Precautions and usage

- 开关在搬运、移动、安装、拆卸和配线作业及维护检查时，请务必断开电源，以免造成内部配线短路、断路等现象而引起触电或开关烧损。
- When the switch is transported, moved, installed, disassembled, wiring, and maintenance and inspection, be sure to disconnect the power supply to avoid short-circuit or open circuit in the internal wiring, which may cause electric shock or switch burns.
- 请不要在易燃易爆环境中使用，开关动作时产品的电弧和火花可能会引起火灾和爆炸，即使在涉及有水、油或其他液体飞散、喷射的环境中使用，使用时请对开关采取相应的防护措施。
- Please do not use it in a flammable and explosive environment. The arc and spark of the product may cause fire and explosion when the switch is activated, even in an environment where water, oil or other liquids are scattered or sprayed. Please take corresponding protective measures for the switch when using it.
- 开关请在平整地面上使用，如果凹凸不平可能会导致开关歪斜或动作失常。
- Please use the switch on a flat ground. If it is uneven, it may cause the switch to skew or malfunction.
- 请不要致使开关跌落或拆开关，否则不仅无法满足其特性，还可能造成开关破损或触电。重压和冲击是造成本产品损坏的直接原因，请务必正确使用。
- Please do not cause the switch to fall or disassemble the switch, otherwise it will not only fail to meet its characteristics, it may also cause damage to the switch or electric shock. Heavy pressure and impact are the direct causes of damage to this product, please make sure must be used correctly.
- 开关的寿命根据开关使用条件的不同差别很大，使用时请务必在实际使用条件中确认实际设备在性能允许范围内。如果在恶劣的状态下继续使用最终可能引起绝缘不良、触点熔接、接触不良和开关本身的损坏。
- The service life of the switch varies greatly depending on the use conditions of the switch. Please make sure that the actual equipment is within the allowable range of performance in the actual use conditions. If you continue in a bad state Use may eventually cause poor insulation, contact welding, poor contact and damage to the switch itself.

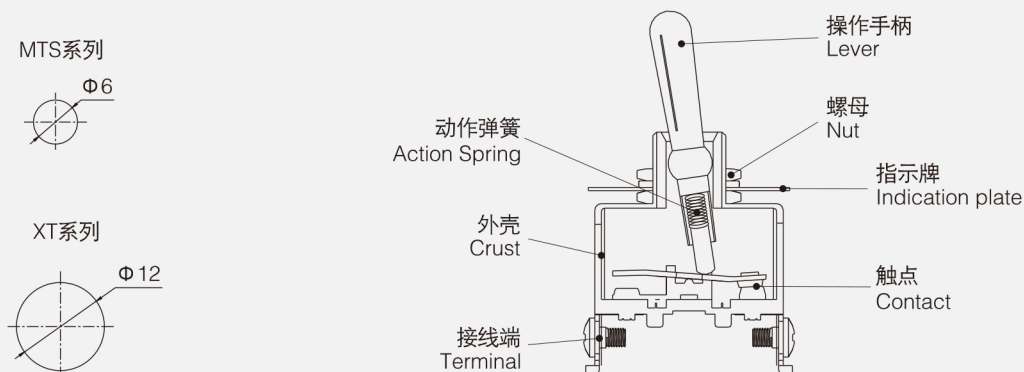
- 采用热塑性外壳，结构紧凑，安装方便；
- 可加装防护套，能防油、防尘；
- 有手动复位与自动复位，灵活选择；
- 广泛应用于各种电子设备、自动化设备、通讯设备、仪器仪表等领域作电源通断与连接电路用。
- Adopt thermoplastic crust, compact construction, and Simple installation;
- May install the protecting cap, can against oil and dustproof;
- Hand reset and automatic reset for flexible choice;
- Widely used in Electrical equipment ,automatic machine, communication equipment and instrument, electro motion tool etc.



□ 型号含义 Model & Meanings



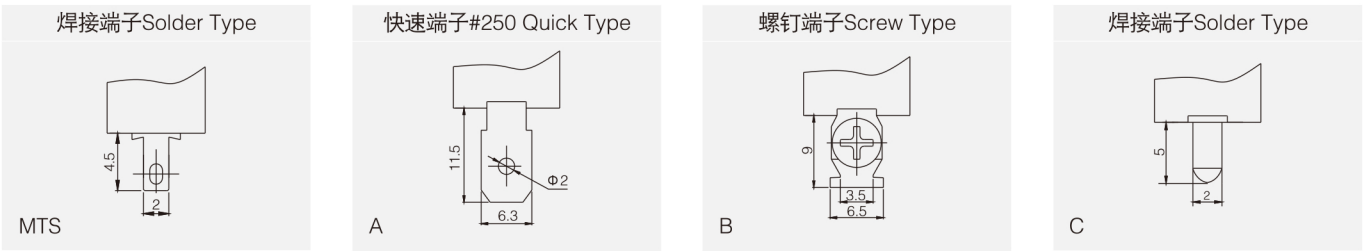
□ 安装孔尺寸及结构图 Mounting Holes & Product Structure



性能参数 Specification

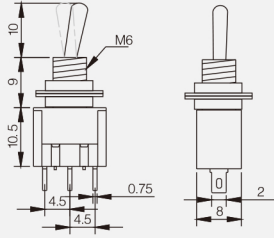
项 目 Item		参数值 Data
额定负载 Rating load		MTS: 6A/125,250V
		XT: 15A/250VAC, 25A/250VAC
操作频率 Operation frequency		30次/分 30times/min
绝缘电阻 Insulation resistance		100M Ω 以上(Above) DC500V
接触电阻 Contact resistance		25m Ω (初值 initial value)
介质耐压 Withstand voltage	非 连线 Non-connection wire	1000VAC
	各端子间 Every terminal	1500VAC
振 动 Vibration	误 动作 Misoperation	10-55Hz 复振幅 Amplitude 1.5mm
冲 击 Impact	耐 久 Durable	1000m/s ²
	误 动作 Misoperation	300m/s ²
寿 命 Life	电 气 Electrical	100,000次以上 above
	机 械 Mechanical	500,000次以上above
防护等级 Protection degree		IP40
使用温度 Operating temperature		-25~+80℃
使用湿度 Operating humidity		<85%

端子类型 Terminal Forms

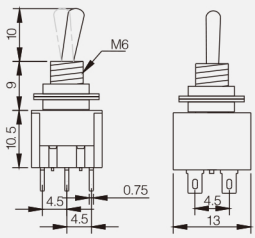


外形尺寸 Dimensions

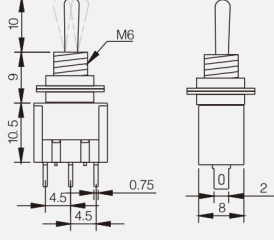
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MTS-102



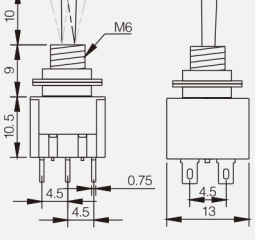
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MTS-202



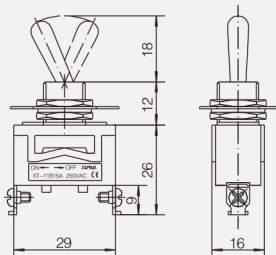
• 单极双投中间停型 SPDT ON-OFF-ON
MTS-103



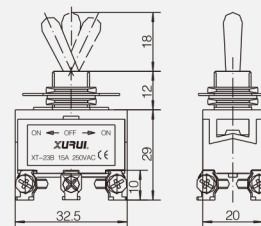
• 双极双投中间停型 DPDT ON-OFF-ON
MTS-203



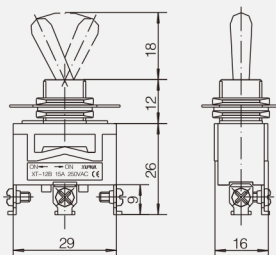
• 单极单投型 SPST ON-OFF
XT-11B



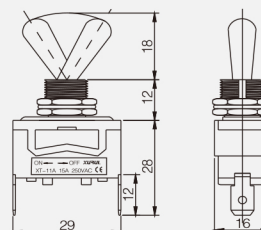
• 双极双投中间停型 DPDT ON-OFF-ON
XT-23B



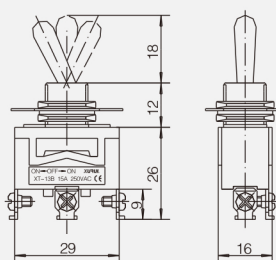
• 单极双投型 SPDT ON-ON
XT-12B



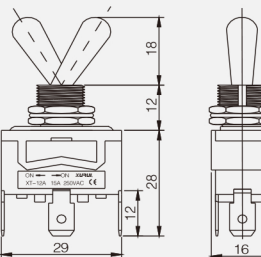
• 单极单投型 SPST ON-OFF
XT-11A



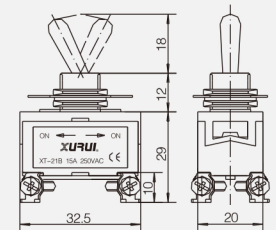
• 单极双投中间停型 SPDT ON-OFF-ON
XT-13B



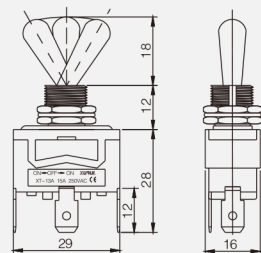
• 单极双投型 SPDT ON-ON
XT-12A



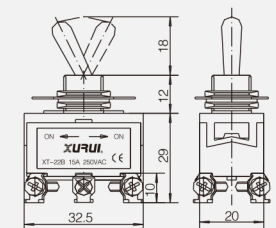
• 双极单投型 DPST ON-OFF
XT-21B



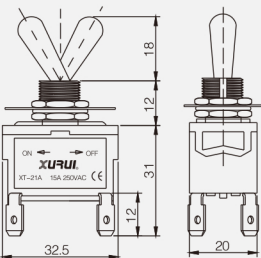
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XT-13A



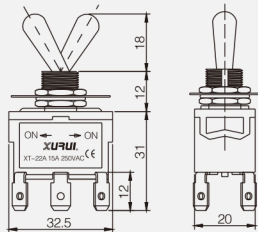
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XT-22B



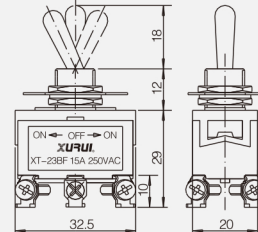
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XT-21A



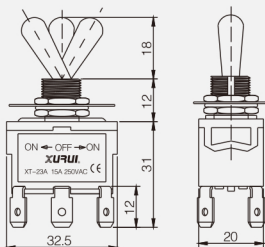
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XT-22A



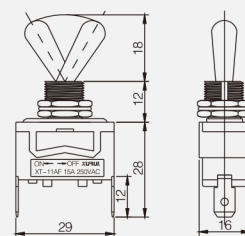
• 双极双向自动复位型 DPDT Auto Reset (ON)-OFF-(ON)
XT-23BF



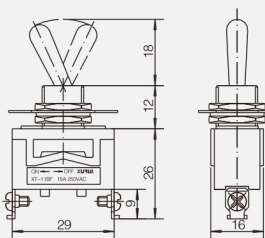
• 双极双投中间停型 DPDT ON-OFF-ON
XT-23A



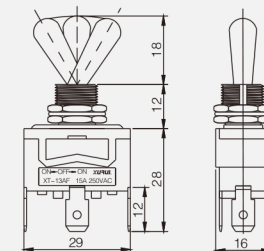
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XT-11AF



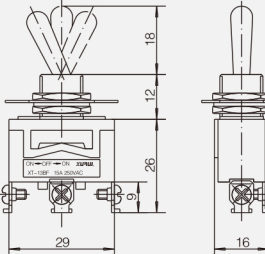
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XT-11BF



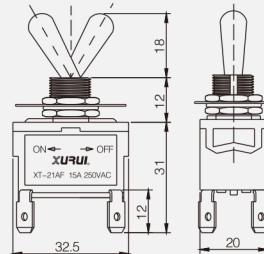
• 单极双向自动复位型 SPDT Auto Reset (ON)-OFF-(ON)
XT-13AF



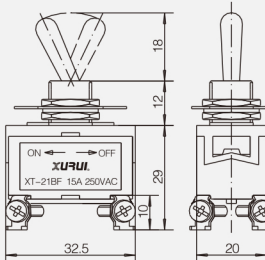
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XT-13BF



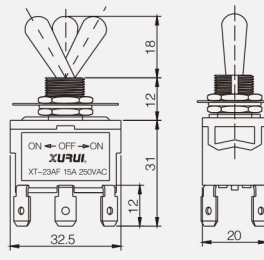
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XT-21AF



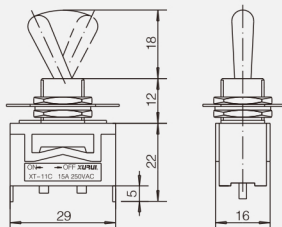
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XT-21BF



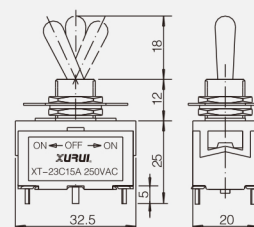
• 双极双向自动复位型 DPDT Auto Reset (ON)-OFF-(ON)
XT-23AF



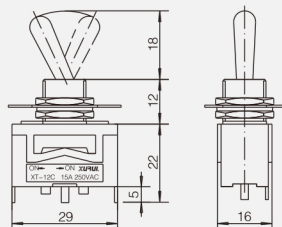
• 单极单投型 SPST ON-OFF
XT-11C



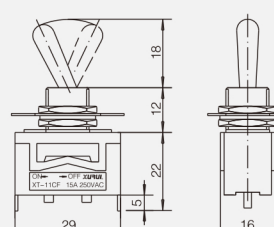
• 双极双投中间停型 DPDT ON-OFF-ON
XT-23C



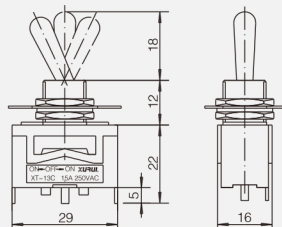
• 单极双投型 SPDT ON-ON
XT-12C



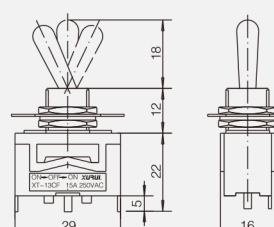
• 单极单向自动复位型 SPST Auto Reset (ON)-OFF
XT-11CF



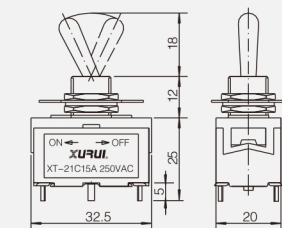
• 单极双投中间停型 SPDT ON-OFF-ON
XT-13C



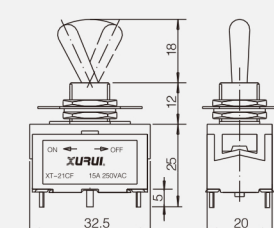
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XT-13CF



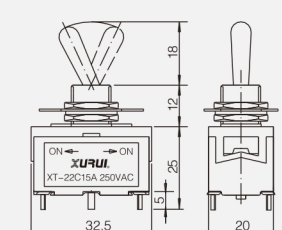
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XT-21C



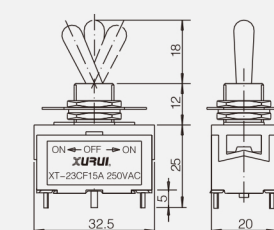
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XT-21CF



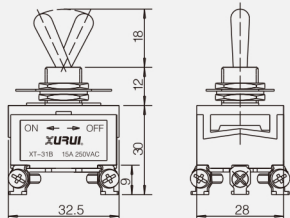
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XT-22C



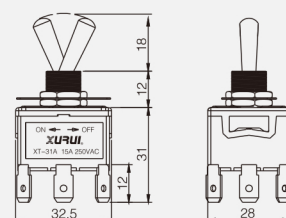
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XT-23CF



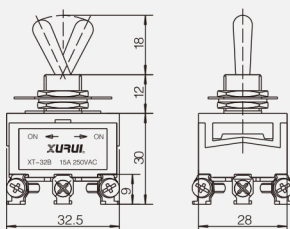
• 三极极单投型 TPST ON-OFF
XT-31B



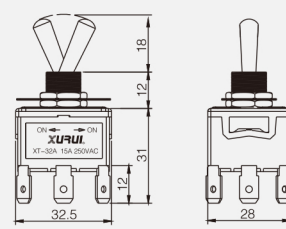
• 三极极单投型 TPST ON-OFF
XT-31A



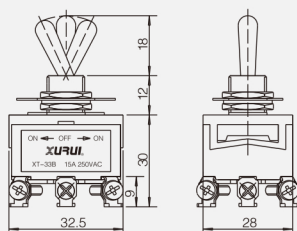
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XT-32B



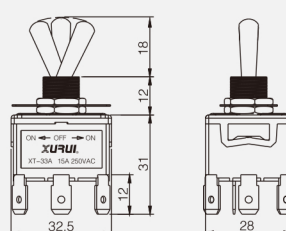
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XT-32A



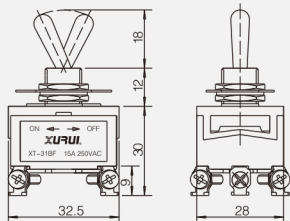
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XT-33B



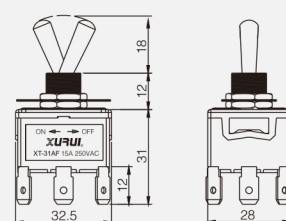
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XT-33A



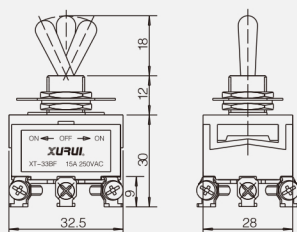
• 三极单向自动复位型 TPST Auto Reset (ON)-OFF
XT-31BF



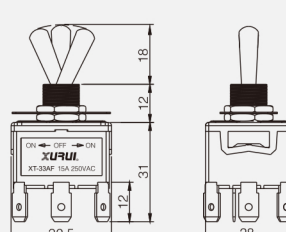
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XT-31AF



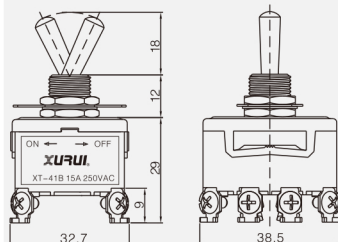
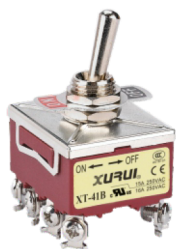
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XT-33BF



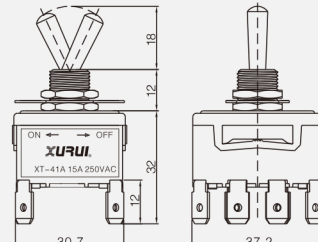
• 三极双向自动复位型 TPDT Auto Reset (ON)-OFF-(ON)
XT-33AF



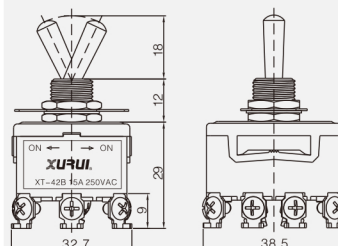
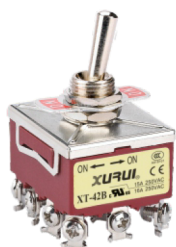
• 四极极单投型 FPST ON-OFF
XT-41B



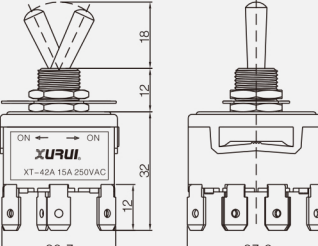
• 四极极单投型 FPST ON-OFF
XT-41A



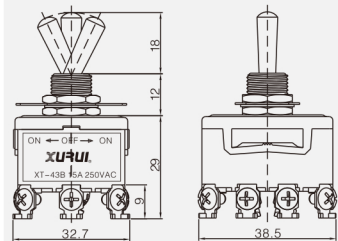
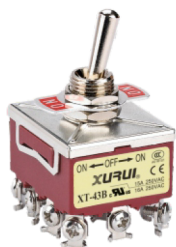
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XT-42B



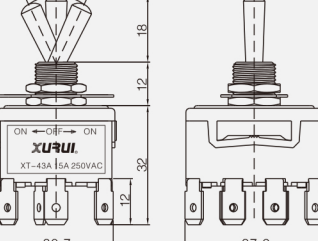
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XT-42A



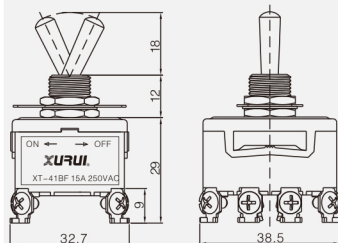
• 四极双投中间停型 FPDT ON-OFF-ON
XT-43B



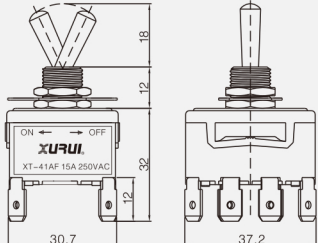
• 四极双投中间停型 FPDT ON-OFF-ON
XT-43A



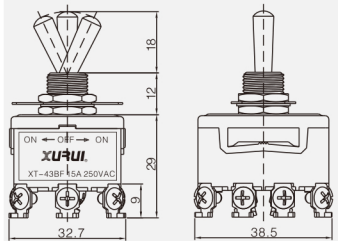
• 四极单向自动复位型 FPST Auto Reset (ON)-OFF
XT-41BF



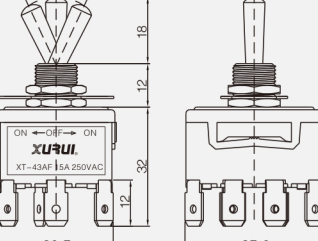
• 四极单向自动复位型 FPST Auto Reset (ON)-OFF
XT-41AF



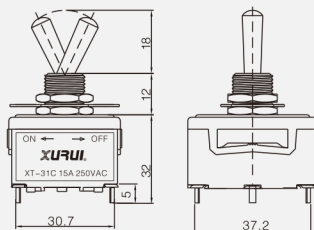
• 四极双向自动复位型 FPDT Auto Reset (ON)-OFF-(ON)
XT-43BF



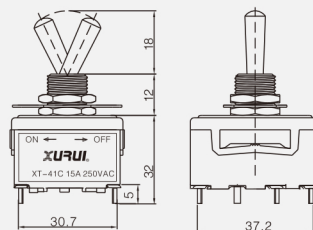
• 四极双向自动复位型 FPDT Auto Reset (ON)-OFF-(ON)
XT-43AF



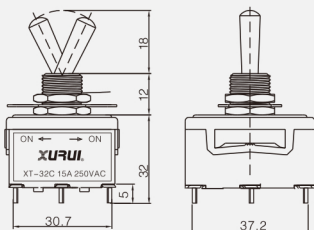
• 三极极单投型 FPST ON-OFF
XT-31C



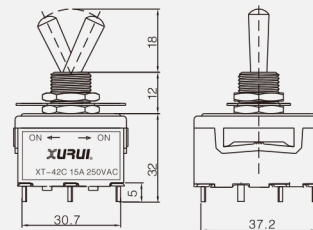
• 四极极单投型 TPST ON-OFF
XT-41C



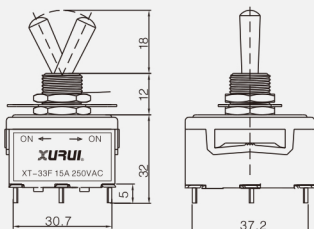
• 三极双投型 FPDT ON-ON
XT-32C



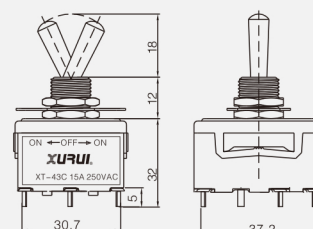
• 四极双投型 TPDT ON-ON
XT-42C



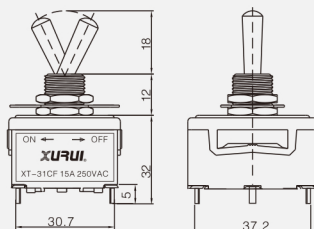
• 三极双投中间停型 FPDT ON-OFF-ON
XT-33C



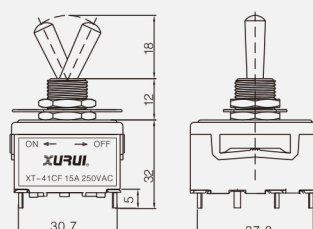
• 四极双投中间停型 TPDT ON-OFF-ON
XT-43C



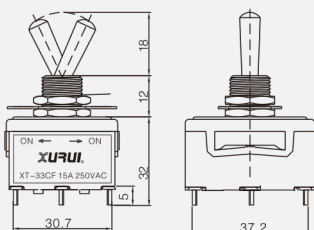
• 三极单向自动复位型 FPST Auto Reset (ON)-OFF
XT-31CF



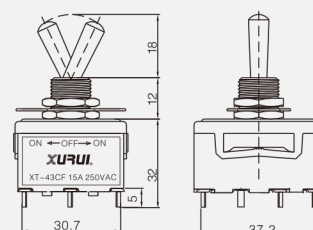
• 四极单向自动复位型 TPST Auto Reset (ON)-OFF
XT-41CF



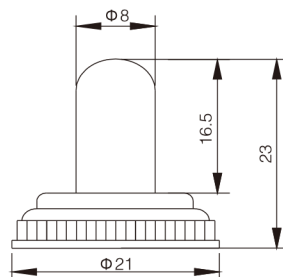
• 三极双向自动复位型 FPDT Auto Reset (ON)-OFF-(ON)
XT-33CF



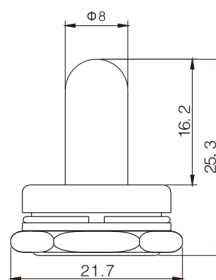
• 四极双向自动复位型 TPDT Auto Reset (ON)-OFF-(ON)
XT-43CF



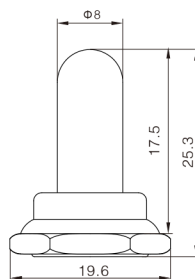
- 钮子开关防护套 Protecting Cap
XT-HT



- 钮子开关防护套 Protecting Cap
XT-HT2



- 钮子开关防护套 Protecting Cap
XT-HT3

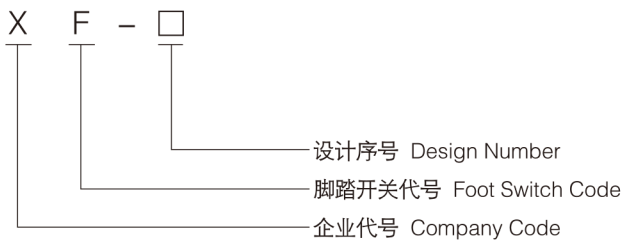


- 多种外壳材质选择，有工程塑料、铁板、铝合金等；
- 金属外壳采用强化烤漆塑表面，耐冲击、耐磨损、耐高温；
- 电缆引出设有电缆锁紧护套，可防水、防油；
- 开关底部设有橡胶脚垫，可防滑；
- 广泛应用于各种工业自动化装置、搬运、冲压、医疗、测试等场合作控制用。

- Kinds of shell's material for choice, such as engineering plastic, steel panel, aluminium alloy, etc;
- Metal shell use the strenghtening to reast the surface, bears the impact, the wearability, thermostable;
- Cable lock-in jacket is made for the cable coming out and it is waterproof, grease proofing;
- Switch bottom is equipped with the rubber pad, for skidproof;
- Widely used for control in industrial automation equipments, transport, pressing, medical treatment, test and etc.



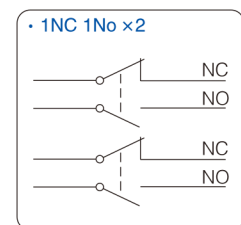
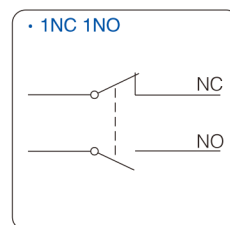
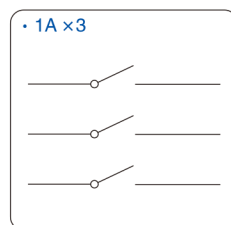
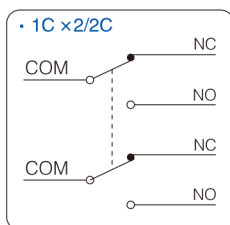
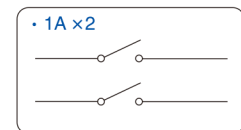
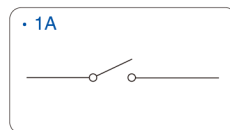
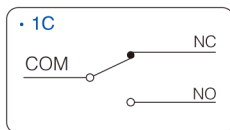
□ 型号含义 Model & Meanings



□ 基本参数 Basic parameters

接触电阻 Contact resistance	25mΩ (初值 initial value)
绝缘电阻 Insulation resistance	100mΩ 以上 (Above) DC500V
介质耐压 Withstand voltage	≥2000VAC
机械寿命 Mechanical Life	1,000,000次以上 above
电气寿命 Electrical Life	100,000次以上 above
使用温度 Operating temperature	-20~+70℃
使用湿度 Operating Humidity	≤85%

□ 触点形式 Contact Forms



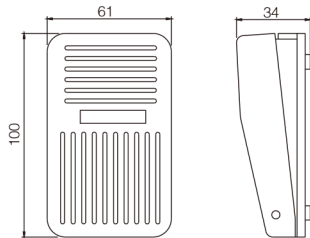
□ 使用注意事项 Application attentions

- 根据负载的性质和电流值的不同，请注意产品的额定负载，本系列产品分10A、15A与16A；
- 搬运以及移动时请注意内部配线的短路、断路等现象发生；
- 使用在有大量水、油、粉尘等场合时请注意产品的防护等级，本系列产品分防护型与非防护型；
- 重压和冲击是造成产品损坏的直接原因，请务必小心；
- “当心触电”与“注意”警示标志提醒大家使用时注意人身安全与产品的正常使用。

- According to the difference of load and current value, rated load should be taken note. Current value of this series is 10A, 15A and 16A;
- When transporting and moving, pls take note of the short circuit or open circuit may happen in internal wiring;
- Please take note of the level of protection when used in water, oil and bug dust. This series has protective type and unprotective type;
- The immediate cause for broken is stress and attack, please pay attention;
- Warning mark 'Danger! High Voltage!' and 'Take note!' remind us pay attention to personnel safety and correctly operation.

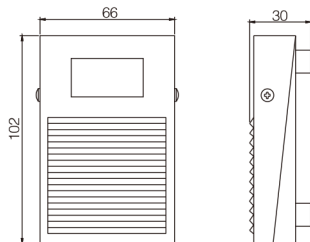
□ 外形尺寸/技术参数 Dimensions / Specification

• XF-01



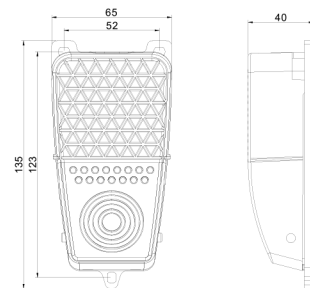
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-1



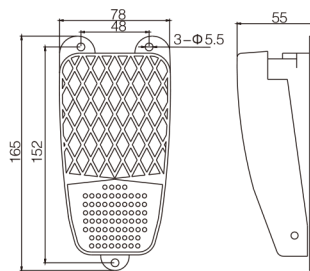
材 质 Material	钢板(Steel)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 1m
防护等级 Protection Degree	IP54

• XF-2



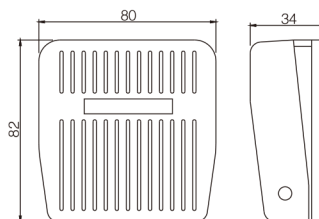
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-3



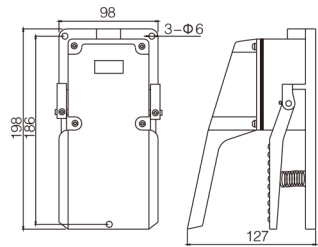
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-201



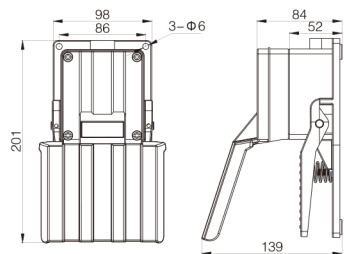
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-302



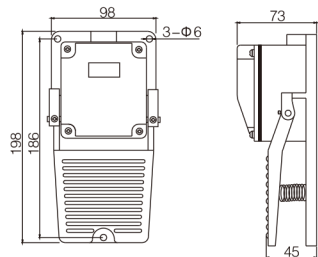
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-302C



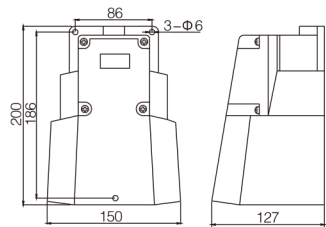
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-402



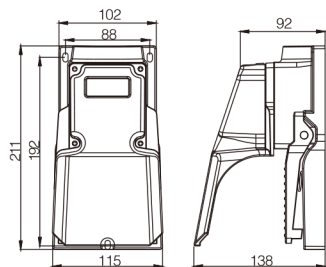
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-502



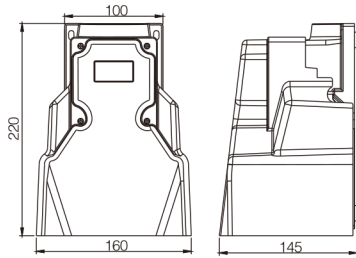
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-302B



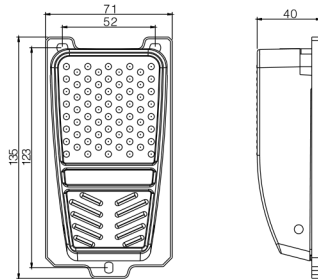
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-502B



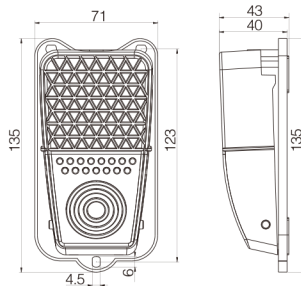
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-4



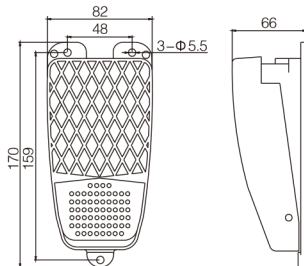
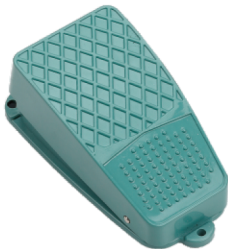
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-5



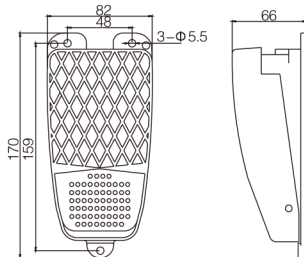
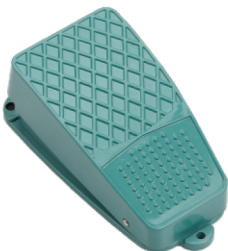
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-101



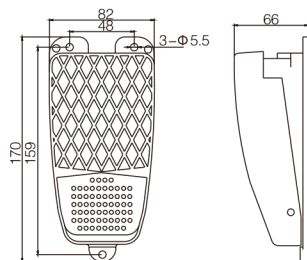
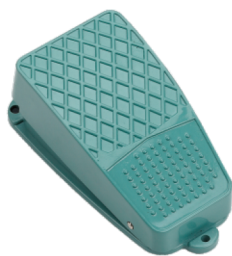
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.75mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-102



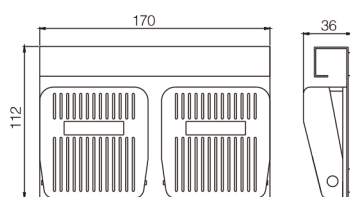
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-103



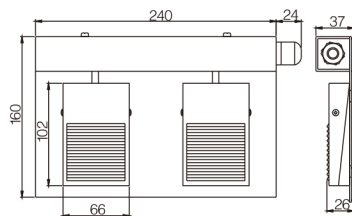
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	2C
引出电缆 Outgoing Cable	0.5mm ² × 6芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-201D



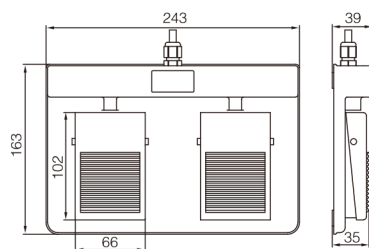
材 质 Material	ABS工程塑料(Plastic)+钢板(Steel)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C × 2
引出电缆 Outgoing Cable	0.5mm ² × 6芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-1D



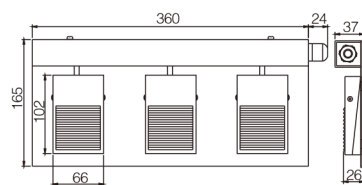
材 质 Material	钢板(Steel)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1A × 2
引出电缆 Outgoing Cable	0.5mm ² × 4芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-1D(P)



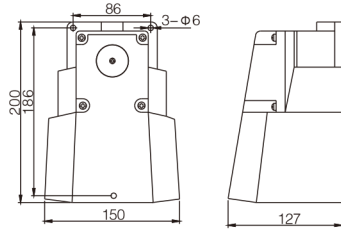
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1A × 2
引出电缆 Outgoing Cable	0.5mm ² × 4芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-1T



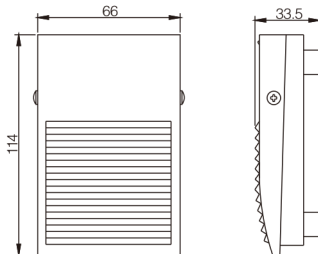
材 质 Material	钢板(Steel)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1A × 3
引出电缆 Outgoing Cable	0.5mm ² × 6芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-502S



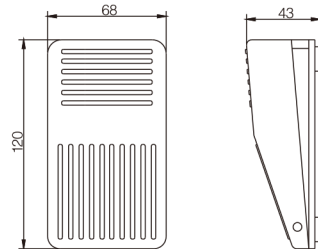
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XZ-15GW22-B
额定负载 Rating Load	15A/250VAC
触点形式 Contact Form	1C+1C
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-81



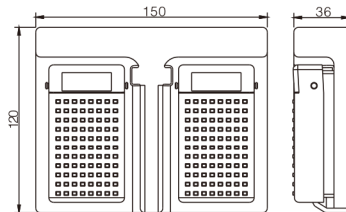
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-82



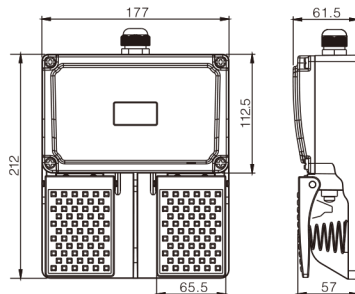
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-85



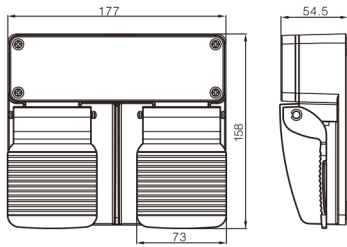
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1A × 2
引出电缆 Outgoing Cable	0.5mm ² × 4芯(Wire) × 0.25m
防护等级 Protection Degree	IP54

• XF-86



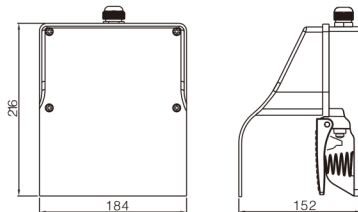
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	慢动型(Slow Action Type)
额定负载 Rating Load	16A/250VAC
触点形式 Contact Form	1NC1NO × 2
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-86S



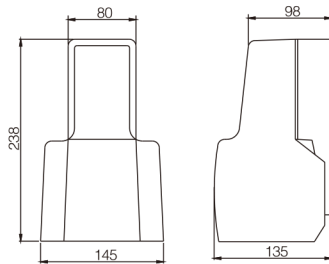
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C × 2
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-87



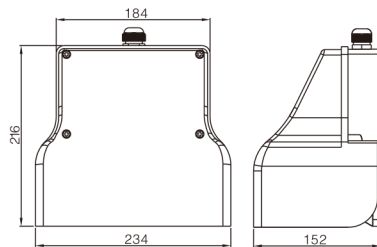
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	慢动型(Slow Action Type)
额定负载 Rating Load	16A/250VAC
触点形式 Contact Form	1NC1NO × 2
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-88



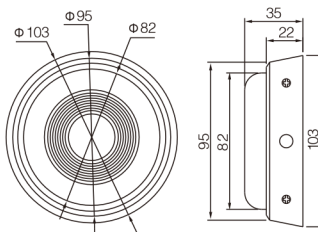
材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	慢动型(Slow Action Type)
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1NC1NO
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-89



材 质 Material	铝合金(Aluminium)
内置开关 Inner Switch	慢动型(Slow Action Type)
额定负载 Rating Load	16A/250VAC
触点形式 Contact Form	1NC1NO × 2
引出电缆 Outgoing Cable	--
防护等级 Protection Degree	IP65

• XF-91



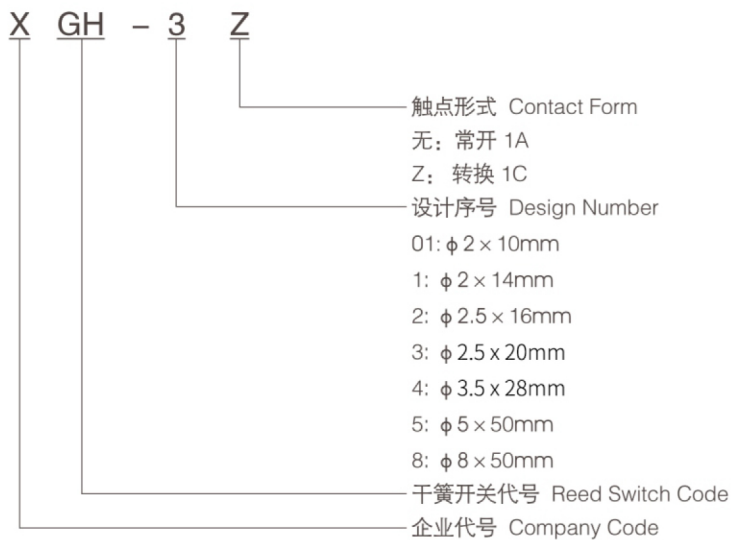
材 质 Material	ABS工程塑料(Plastic)
内置开关 Inner Switch	XV-15-1C25
额定负载 Rating Load	10A/250VAC
触点形式 Contact Form	1C
引出电缆 Outgoing Cable	0.5mm ² × 3芯(Wire) × 1m
防护等级 Protection Degree	IP54

- 簧片触点密封在玻璃管中，不受外界环境影响；
- 反应灵敏，重量轻；
- 防腐触点，动作稳定，寿命长；
- 与线圈和磁铁可快速组成干簧继电器或传感器
- 广泛应用于各种家用电器、控制设备、通讯设备、汽车电子、测量设备等领域

- Reed contacts are hermetically sealed within a glass tube and do not receive the external atmospheric environment;
- Quick response, and light weight;
- Superior corrosion resistance and wear resistance of the contacts assures stable switching operation and long life;
- Composed fast with the coil and magnet, reed switch can be used for reed relay or sensor;
- Widely used in household appliances, control equipment, communication equipment communication, automotive electronic devices, measurement equipment etc.

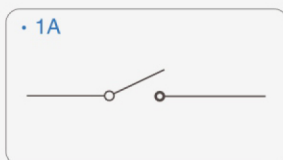


□ 型号含义 Model & Meanings

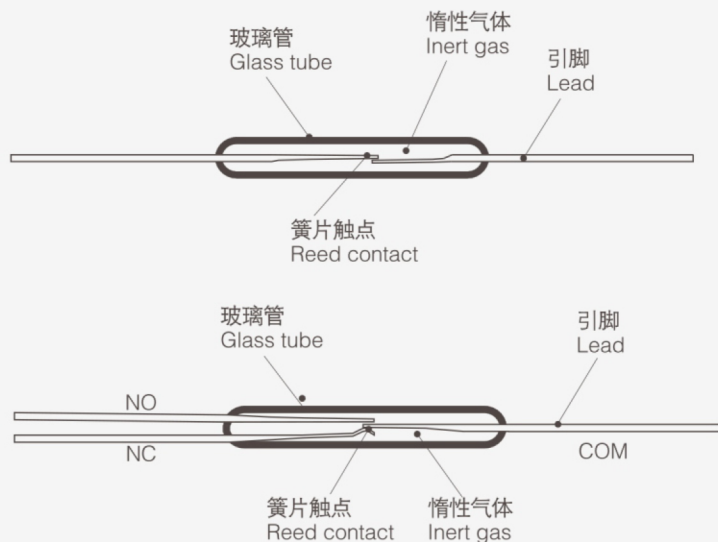


□ 触点形式与结构图 Contact Forms & Product Structure

常开型NO type



转换型Changeover type



□ 技术参数 Specification

• XGH-01



尺寸规格	Dimensions	Φ2 x 10mm
触点类型	Contact Type	1A
触点容量	Contact Rating	1.0VA
吸合值	Pull In Value(PI)	7-25AT
释放值	Drop Out Value(DO)	≥5AT
接触电阻	Contact Resistance	≤200m Ω
介质耐压	breakover Voltage	≥100V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	0.5pF
最大开关电压	Maximum Switching Voltage	24V DC
最大开关电流	Maximum Switching Current	0.05A
最大承载电流	Maximum Carry Current	0.1A
动作时间	Operate Time	≤0.6mS
回跳时间	Bounce Time	≤0.4mS
释放时间	Release Time	≤0.1mS
最大操作频率	Maximum Operating Frequency	100Hz
适用温度	Operating Temperature	-10-60°C

• XGH-1



尺寸规格	Dimensions	Φ2 x 14mm
触点类型	Contact Type	1A
触点容量	Contact Rating	1.0VA
吸合值	Pull In Value(PI)	7-25AT
释放值	Drop Out Value(DO)	≥5AT
接触电阻	Contact Resistance	≤200m Ω
介质耐压	breakover Voltage	≥100V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	0.5pF
最大开关电压	Maximum Switching Voltage	24V DC
最大开关电流	Maximum Switching Current	0.05A
最大承载电流	Maximum Carry Current	0.1A
动作时间	Operate Time	≤0.6mS
回跳时间	Bounce Time	≤0.4mS
释放时间	Release Time	≤0.1mS
最大操作频率	Maximum Operating Frequency	100Hz
适用温度	Operating Temperature	-10-60°C

• XGH-2



尺寸规格	Dimensions	Φ2.5 x 16mm
触点类型	Contact Type	1A
触点容量	Contact Rating	1.0VA
吸合值	Pull In Value(PI)	10-35AT
释放值	Drop Out Value(DO)	≥8AT
接触电阻	Contact Resistance	≤200m 贝
介质耐压	breakover Voltage	≥100V DC
绝缘电阻	Insulation Resistance	≥100m 贝
静电电容	Electrostatic Capacitance	0.5pF
最大开关电压	Maximum Switching Voltage	24V DC
最大开关电流	Maximum Switching Current	0.05A
最大承载电流	Maximum Carry Current	0.1A
动作时间	Operate Time	≤0.8mS
回跳时间	Bounce Time	≤0.4mS
释放时间	Release Time	≤0.2mS
最大操作频率	Maximum Operating Frequency	100Hz
适用温度	Operating Temperature	-10-60°C

□ 技术参数 Specification

• XGH-2Z



尺寸规格	Dimensions	Φ2.5 x 14mm
触点类型	Contact Type	1C
触点容量	Contact Rating	1.0VA
吸合值	Pull In Value(PI)	7-25AT
释放值	Drop Out Value(DO)	≥5AT
接触电阻	Contact Resistance	≤200m Ω
介质耐压	breakover Voltage	≥100V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	0.2pF
最大开关电压	Maximum Switching Voltage	24V DC
最大开关电流	Maximum Switching Current	0.05A
最大承载电流	Maximum Carry Current	0.1A
动作时间	Operate Time	≤0.6mS
回跳时间	Bounce Time	≤0.4mS
释放时间	Release Time	≤0.1mS
最大操作频率	Maximum Operating Frequency	100Hz
适用温度	Operating Temperature	-10-60°C

• XGH-3



尺寸规格	Dimensions	Φ2.5x 20mm
触点类型	Contact Type	1A
触点容量	Contact Rating	3.0VA
吸合值	Pull In Value(PI)	15-50AT
释放值	Drop Out Value(DO)	≥10AT
接触电阻	Contact Resistance	≤200m Ω
介质耐压	breakover Voltage	≥150V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	0.5pF
最大开关电压	Maximum Switching Voltage	30V DC
最大开关电流	Maximum Switching Current	0.1A
最大承载电流	Maximum Carry Current	0.3A
动作时间	Operate Time	≤1mS
回跳时间	Bounce Time	≤1mS
释放时间	Release Time	≤0.5mS
最大操作频率	Maximum Operating Frequency	100Hz
适用温度	Operating Temperature	-10-60°C

• XGH-4



尺寸规格	Dimensions	Φ3.5x 28mm
触点类型	Contact Type	1A
触点容量	Contact Rating	10VA
吸合值	Pull In Value(PI)	35-80AT
释放值	Drop Out Value(DO)	≥15AT
接触电阻	Contact Resistance	≤200m Ω
介质耐压	breakover Voltage	≥200V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	0.8pF
最大开关电压	Maximum Switching Voltage	60V DC
最大开关电流	Maximum Switching Current	0.5A
最大承载电流	Maximum Carry Current	2A
动作时间	Operate Time	≤1.5mS
回跳时间	Bounce Time	≤0.8mS
释放时间	Release Time	≤0.4mS
最大操作频率	Maximum Operating Frequency	200Hz
适用温度	Operating Temperature	-10-70°C

□ 技术参数 Specification

• XGH-5



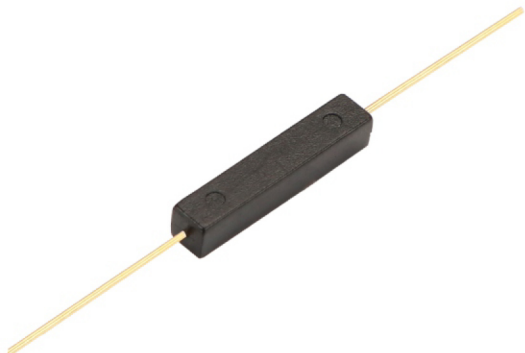
尺寸规格	Dimensions	Φ5x 50mm
触点类型	Contact Type	1A
触点容量	Contact Rating	20VA
吸合值	Pull In Value(PI)	80-130AT
释放值	Drop Out Value(DO)	≥25AT
接触电阻	Contact Resistance	≤200m Ω
介质耐压	breakover Voltage	≥250V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	1pF
最大开关电压	Maximum Switching Voltage	100V DC
最大开关电流	Maximum Switching Current	1A
最大承载电流	Maximum Carry Current	3A
动作时间	Operate Time	≤1.2mS
回跳时间	Bounce Time	≤1mS
释放时间	Release Time	≤0.5mS
最大操作频率	Maximum Operating Frequency	200Hz
适用温度	Operating Temperature	-10-70°C

• XGH-8



尺寸规格	Dimensions	Φ8 x 50mm
触点类型	Contact Type	1A
触点容量	Contact Rating	30VA
吸合值	Pull In Value(PI)	120-300AT
释放值	Drop Out Value(DO)	≥30AT
接触电阻	Contact Resistance	≤200m Ω
介质耐压	breakover Voltage	≥500V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	1.5pF
最大开关电压	Maximum Switching Voltage	220V DC
最大开关电流	Maximum Switching Current	2A
最大承载电流	Maximum Carry Current	4A
动作时间	Operate Time	≤1mS
回跳时间	Bounce Time	≤0.8mS
释放时间	Release Time	≤0.3mS
最大操作频率	Maximum Operating Frequency	200Hz
适用温度	Operating Temperature	-10-70°C

• XGH-1P1



尺寸规格	Dimensions	3*3*16mm
触点类型	Contact Type	1A
触点容量	Contact Rating	10VA
吸合值	Pull In Value(PI)	5-40AT
释放值	Drop Out Value(DO)	≥3AT
接触电阻	Contact Resistance	≤150m Ω
介质耐压	breakover Voltage	≥200V DC
绝缘电阻	Insulation Resistance	≥100m Ω
静电电容	Electrostatic Capacitance	1pF
最大开关电压	Maximum Switching Voltage	100V DC
最大开关电流	Maximum Switching Current	0.5A
最大承载电流	Maximum Carry Current	1A
动作时间	Operate Time	≤1.0mS
回跳时间	Bounce Time	≤0.4mS
释放时间	Release Time	≤0.3mS
最大操作频率	Maximum Operating Frequency	500Hz
适用温度	Operating Temperature	-10-85°C

□ 结构 Structure

本产品分为A型、B型两种，两种结构相同，只是电缆引出方向及拨杆方向相反。A型安装于皮带左侧，B型安装于皮带右侧。一般情况下，两种是配套使用，如需其中一种同样可以供应，电缆长度可增可减。

The products are divided into A and B types. Two types' structure is the same, Only the cable outlet and lever direction is the opposite. A type mounted on the left side of the belt, B type mounted on the right side of the belt. Usually, the two types are supporting the use, if need one, can also be supply, Cable length can be increased or reduced.

□ 用途 Application

本产品专用于钢丝绳牵引皮带输送机在运行中发生掉绳、掉带、断带故障时，能及时停机，避免事故。

This product is designed for wire rope pull belt conveyor happed running out of Rope, fall belt, broken belt failure, can timely stop to avoid the accident.

□ 使用说明 Operation Instruction

本产品可根据钢带机运行情况，逐架或隔架安装在钢带机托轮架上，拨杆指向皮带运行方向，并使拨杆横端置于钢丝绳下方3-5cm处，将开关体与座的卡槽插牢。一旦发生掉绳、掉带等故障时拨杆受压将开关体从卡槽中拉出向下翻转，水银开关断开，发出故障信号，或直接使电机接触器线圈断电从而使钢带机及时停止运行而得到瓮中保护。

This product can be mounted by rack or shelf on belt conveyer, Pull the lever pointing the direction of the belt, Make the lever's transvers end put below the belt 3-5cm side. And inserted firmly the card slot of the switch body and base. Once off the rope, fall belt happed, lever under pressure will flip down the switch body pulled from the card slot. The mercury is cut off, will send a fault signal, or directly made motor contactor Coil Power off, So the strip machine timely stop running and get the urn protected.

□ 技术参数 Technical Specification

产品型号	Product model	PZ-21
额定电压	Voltage rating	220VAC
额定电流	Current rating	3A
动作压力	Operating force	≥2Kg
工作角度	Operating angle	180°
触点形式	Contact form	NC/NO
防护等级	Protection degree	IP67
接触电阻	Contact resistance	≤200mΩ
介质耐压	Medium withstand voltage	≥2500VAC
绝缘电阻	Insulating resistance	≥100MΩ
工作温度	Operating temperature	-25-80℃

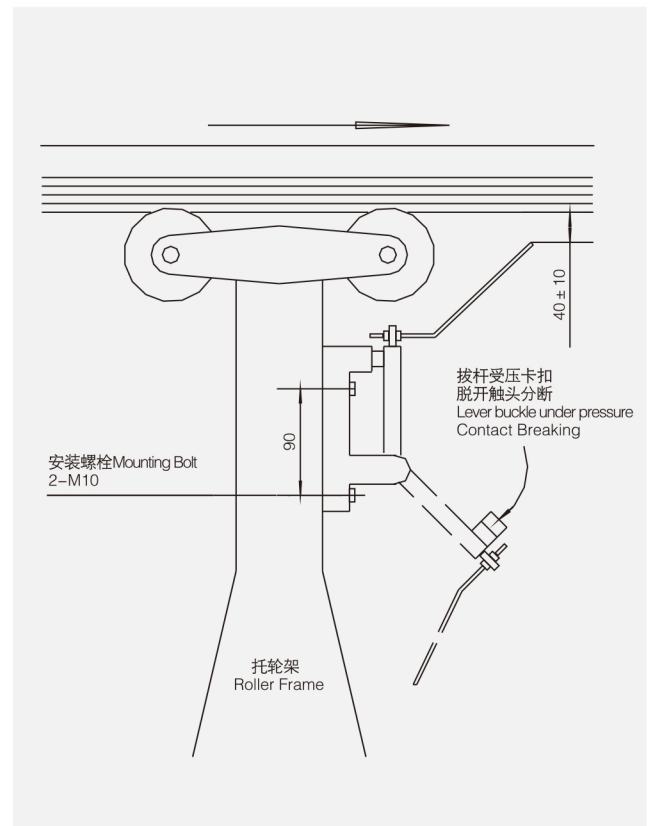


□ 安装位置及工作原理

Installed position and working Principle

当皮带如图示方向运行时，远侧安装B型，近侧安装A型

When the belt running direction as shown, Far side Installation B type, Near-side installation A type.



□ 结构 Structure

本开关系采用PZ-215型水银开关以环氧树脂固封在聚乙烯外壳中，并将引出电缆一端同时封在其中成为全封闭式开关，在化工厂酸碱车间及矿井高湿度作业区具有很好的防水防腐能力。

This Switch adopt PZ-215 type mercury switch, With epoxy resin fixed outside the polyethylene In the shell, will lead to one of the cable end, At the same time become fully enclosed switch. Acid and alkali plant in chemical plant and mine in the high humidity areas has very good waterproof anti-corrosion Ability.

□ 用途 Application

本开关是参照国外矿用绞车安全门开关的同类产品，它结构简单，价格低廉，可直接固定在机械的传动部件上，做位置信号或定位控制用。

This switch is referring to the similar products of foreign mining winch the security switch, its structure is Simple, low cost, can be directly fixed on the mechanical transmission parts, are widely used in Signal or positioning control.

□ 使用说明 Operation Instruction

根据开关工作位置打出安装孔用螺钉将开关固定，固定时开关下应垫上一层 5mm 厚的橡胶片，固定螺钉不宜扭得过紧，以免挤裂环氧树脂。

通电前应将开关向接通方向大角度倾斜一次，使水银充满水银开关的电极杯，以免电极在大电流下与水银直接接触产生火花而烧蚀电极使电极氧化而增大接触电阻。

According to the switch work position with mounting holes use screws to fix the switch, The switch should be with a 5 mm thick layer of rubber piece when it should have been to be fixed. Set screw should not be too tight, in order to avoid cracked epoxy resin. The switch should to connect large angle to a direction before electricity, the mercury is full of water Silver electrode of the switch. In order to avoid the electrode in large electrical flow has Direct contact with mercury Spark, and ablation electrode increased by oxidation of electrode contact resistance.

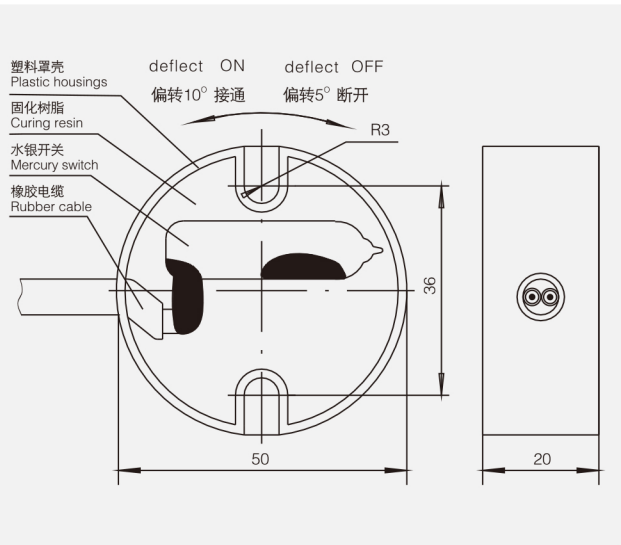


□ 技术参数 Technical Specification

产品型号	Product model	PZ-22
额定电压	Voltage rating	220VAC
额定电流	Current rating	3A
工作角度	Operating angle	15°
触点形式	Contact form	NO
防护等级	Protection degree	IP67
接触电阻	Contact resistance	≤200mΩ
介质耐压	Medium withstand voltage	≥2500VAC
绝缘电阻	Insulating resistance	≥100MΩ
工作温度	Operating temperature	-25~80℃

□ 外形安装尺寸及结构图

Outshape mounting & Product Structure



□ 结构 Structure

本开关系采用ABS塑料外壳以密封在环氧树脂内的水银开关做触点，具有极好的防潮、防腐能力，可完全不考虑水、尘、瓦斯及酸碱气体的影响。

The Switch use ABS plastic shell and use the epoxy resin sealed mercury switch as contact, has excellent moisture, corrosion resistance, can not be considered the impact of water, dust, gas and acid-base gas.

□ 用途 Application

本开关是参照国外同类产品并加以改进的矿用开关，供矿山、化工生产单位作井口安全门、煤仓、箕门等处作行程控制及发生位置信号用。

This switch is mine switch, reference to similar foreign products. It is used for mining, control and the occurrence of stroke position signal in chemical production for wellhead safety door, etc.

□ 使用说明 Operation Instruction

为便于定位，开关的两个安装孔中有一个设计成弧形，这样可使开关在安装后作左右40°的偏转，以选择最佳工作点，然后将螺栓拧紧即可。

For easy positioning, One of the two mounting holes is designed to be curved. So can make a deflection of about 40° after installation, In order to select the optimal operation point, then tighten the bolts.

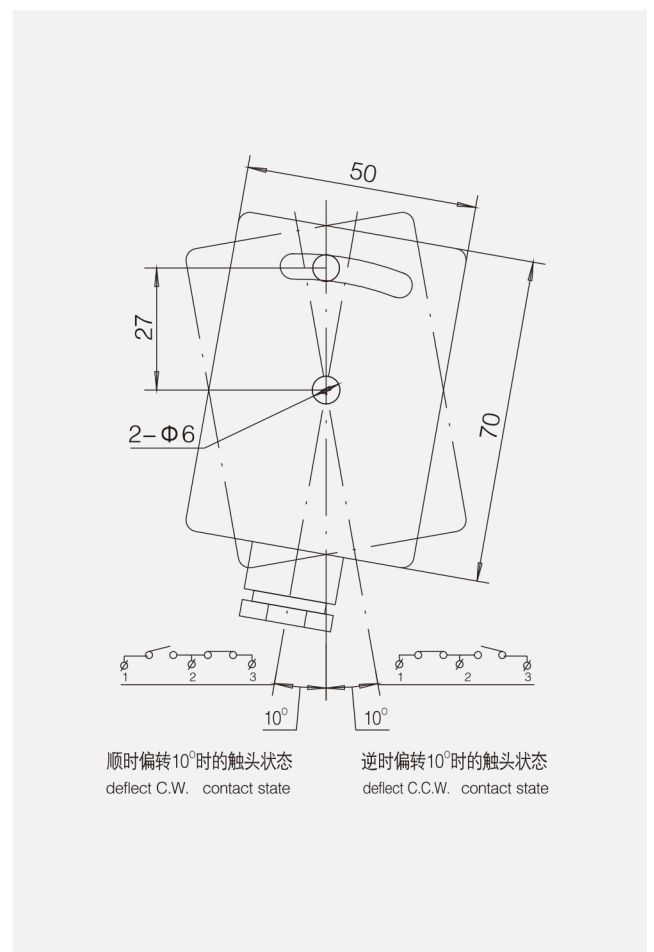
□ 技术参数 Technical Specification

产品型号 Product model	PZ-31
额定电压 Voltage rating	220VAC
额定电流 Current rating	3A
工作角度 Operating angle	10°
触点形式 Contact form	1NC1NO
防护等级 Protection degree	IP67
接触电阻 Contact resistance	≤200mΩ
介质耐压 Medium withstand voltage	≥2500VAC
绝缘电阻 Insulating resistance	≥100MΩ
工作温度 Operating temperature	-25~80℃



□ 外形安装尺寸及工作位置

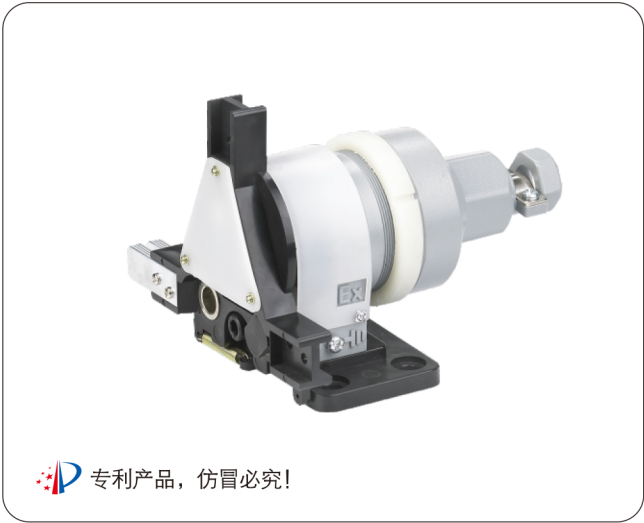
Outshape mounting & working position



□ 结构 Structure

本开关系利用水银开关作电触头，与具有较高强度的铝合金隔爆外壳组装而成，具有工作可靠，轻巧耐用等特点，特别适合于一般机械触头开关不能胜任的恶劣环境场合。矿用防爆水银开关的安装及动作原理与一般限位开关基本相同，使用更加方便。

This switch Using mercury switch as a electric contact, It's consisted of high strength aluminum alloy explosion-proof enclosure, With reliable work, Lightweight and durable, etc. Particularly suitable for general mechanical contactor switch which is not up to a bad situation. The Installation and principle of action for explosion-proof mercury switch is basically the same as general limit switches. It is more convenient for use.



□ 用途 Application

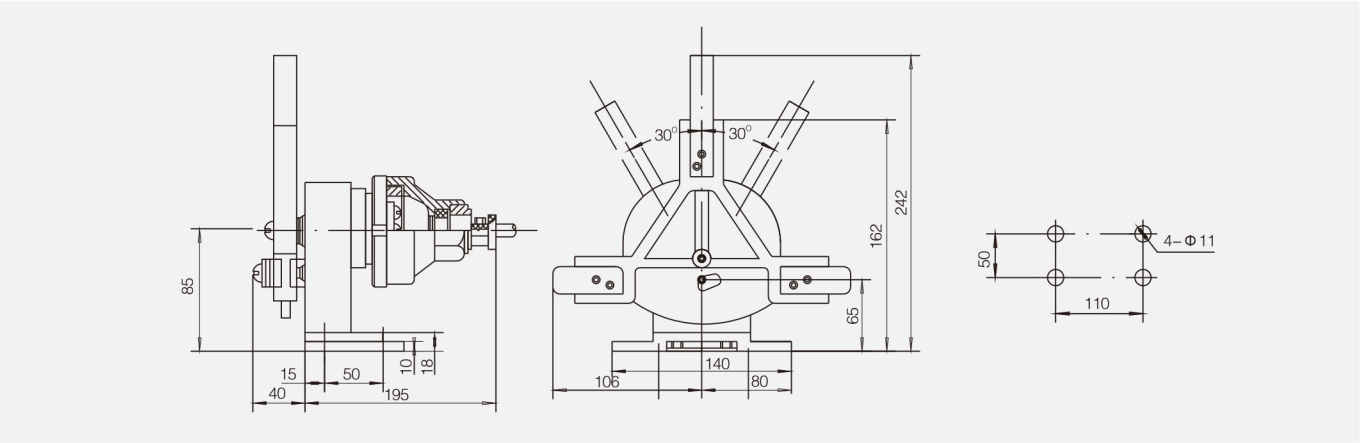
防爆水银限位开关适用于矿井，油库化工厂等具有一级可燃爆性气体或粉尘、潮湿及有腐蚀性介质的环境，作运动机械的限位、保护、信号、位置检测自控用。如：矿井井筒吊罐车的停车、过卷保护；推车机、翻车机的位置检测及控制煤仓箕门的开关信号以及皮带运输机的跑偏、断带保护等。

Explosion-proof Limit mercury switch is suitable for mine and Oil chemical plant Such as with level of combustible gas, or Dust, moisture and corrosive medium environment, as used in exercise mechanical limit, protection, signal, position detection control. Such as: The mine shaft hoisting, tank car parking, overwinding protection; The pusher, the position detection and control of the dumper Coal basket door switch signals and belt conveyor running deviation, strip break protection, etc.

□ 外形安装尺寸及工作位置
Outshape mounting & working position

产品型号	Product model	BLY1-5/111	BLY1-5/211
额定电压	Voltage rating	127VAC/110VDC	
额定电流	Current rating	2A AC/2A DC	
动作方式	Operating force	顺时针 C.W.	逆时针 C.C.W.
工作角度	Operating angle	30°	
触点形式	Contact form	1NC1NO	
防护等级	Protection degree	IP67	
接触电阻	Contact resistance	≤200mΩ	
介质耐压	Medium withstand voltage	≥2500VAC	
绝缘电阻	Insulating resistance	≥100MΩ	
操作频率	Operation frequency	≤600次/小时	
引入电缆外径	Ingoing cable diameter	Φ14-19mm	
工作温度	Operating temperature	-25-80℃	

□ 外形安装尺寸及工作位置 Outshape mounting & working position



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