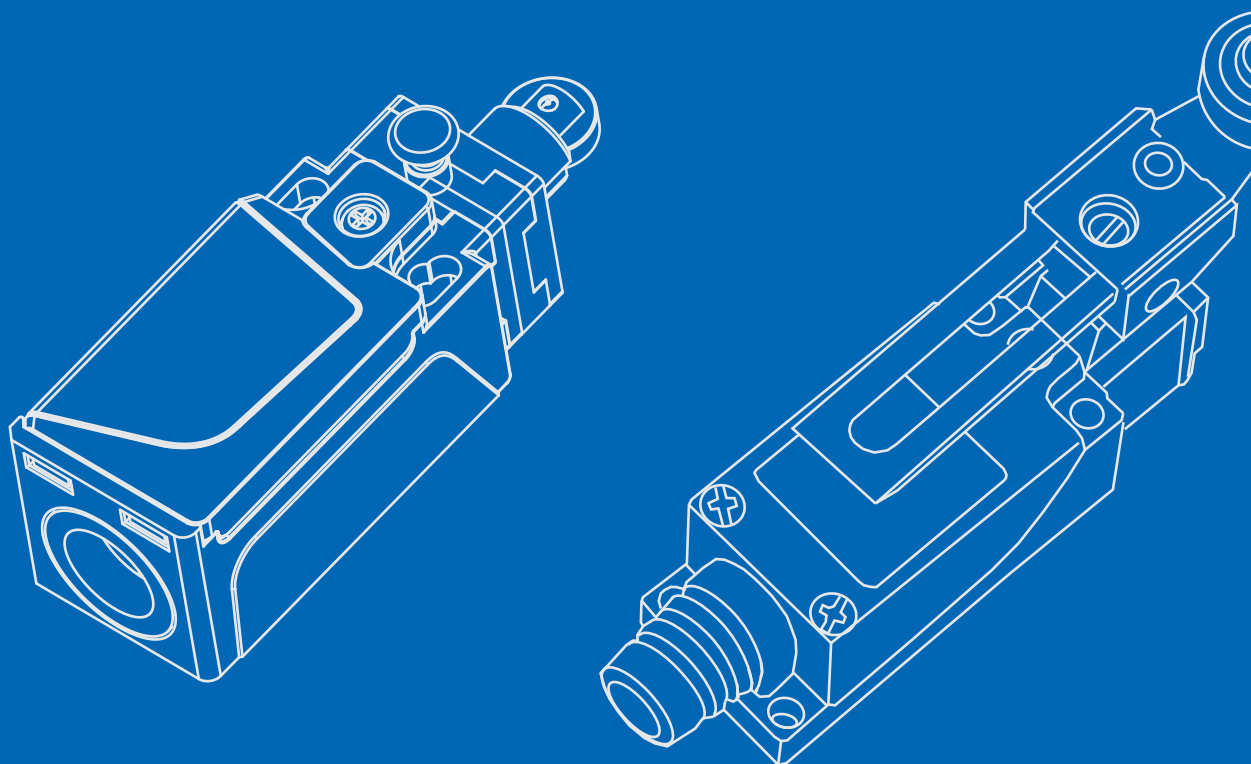


Professional Manufacture For Industrial Products  
SINCE 2002

# 产品选型手册 PRODUCTS CATALOGUE

行程开关系列  
Limit Switch Series



# 目录 CONTENTS



XZ7 行程开关 P01-04  
Limit Switch



XZ8 行程开关 P05-14  
Limit Switch



XZ-5 行程开关 P15-18  
Limit Switch



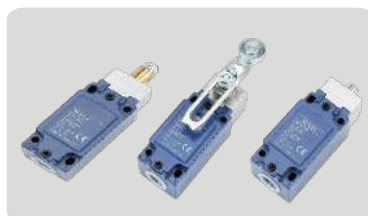
XZ-9 行程开关 P19-32  
Limit Switch



XZ-1 防水行程开关 P33-34  
Waterproof Limit Switch



XZ-3 防水行程开关 P35-38  
Waterproof Limit Switch



XZ-4 行程开关 P39-40  
Limit Switch



XHL 行程开关 P41-42  
Limit Switch



XZ/XES/XDS 行程开关 P43-45  
Limit Switch



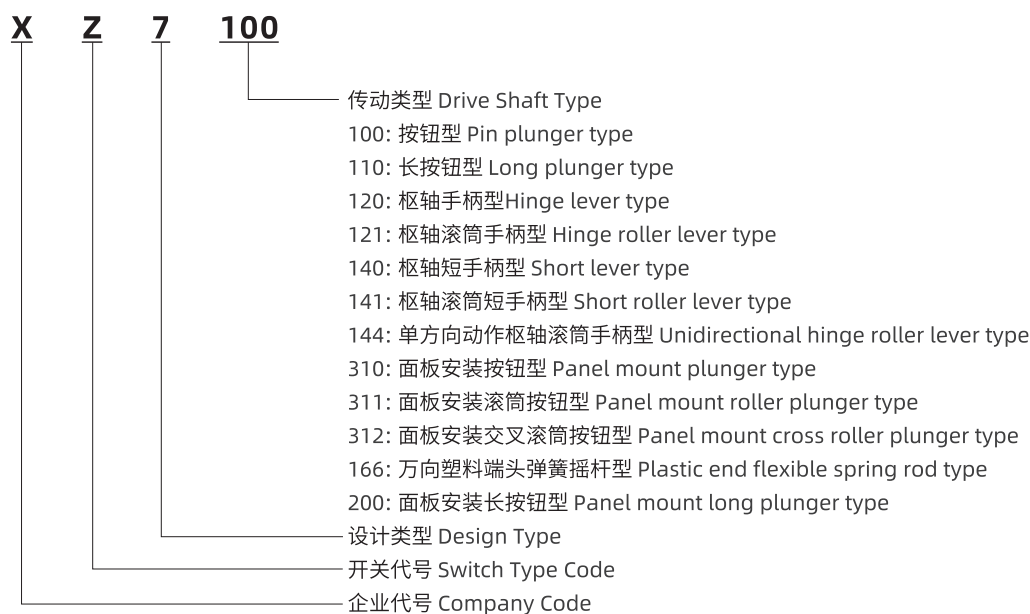
XEL 电磁锁安全门开关 P46-49  
Electromagnetic Lock Switch



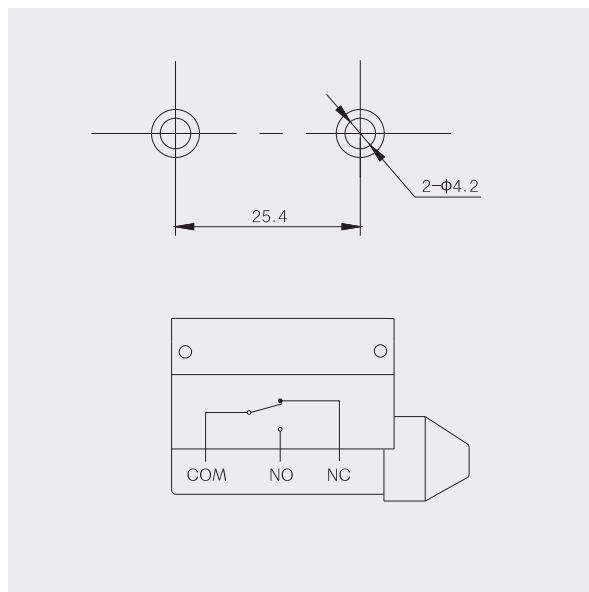
- 采用强化塑胶外壳，辅助密封式结构，具有更好的机械强度以及防油防尘；
- 侧面固定形式，接点敏捷；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Adopt outer shell with intensive plastic and sealed construction, better mechanical strength and water-proof and oil-proof;
- Side fixed form and swift contact;
- Variety of levers;
- Widely used in Mechanical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



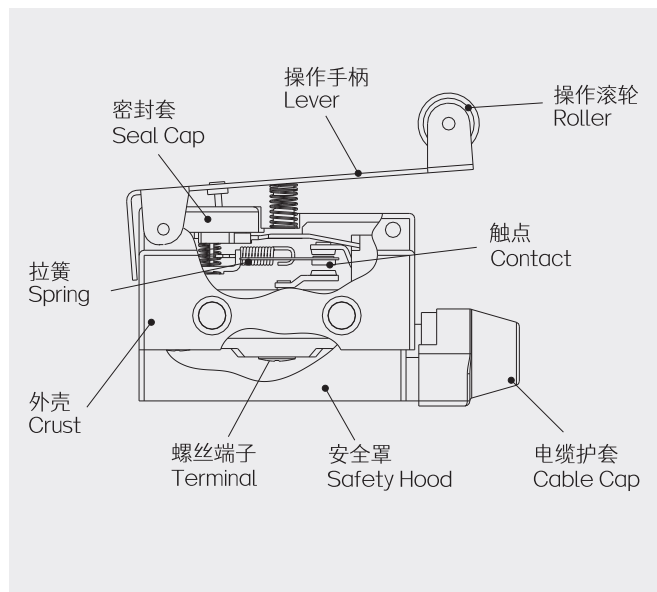
## □ 型号含义 Model & Meanings



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



## □ 产品结构图 Product Structure



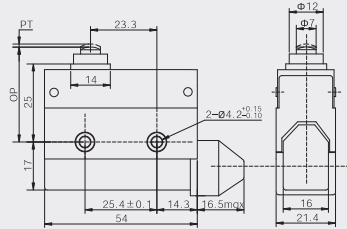
## □ 性能参数 Specification

| 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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%                        |

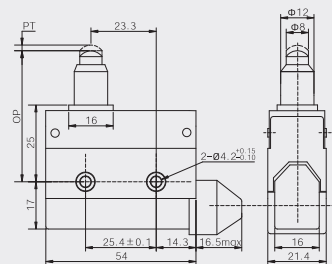
## □ 外形尺寸/动作特性 Dimensions/Operating Characteristics

| 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      | XZ7-200      |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 动作力 OF max. | 950gf(9.31N) | 500gf(4.9N)  | 100gf(0.98N) | 130gf(1.27N) | 160gf(1.57N) | 160gf(1.57N) | 250gf(2.45N) | 400gf(3.92N) | 400gf(3.92N) | 400gf(3.92N) | 150gf(1.47N) | 400gf(3.92N) |
| 回复力 RF min. | 200gf(1.96N) | 100gf(0.98N) | 20gf(0.2N)   | 22gf(0.22N)  | 25gf(0.25N)  | 25gf(0.25N)  | 40gf(0.39N)  | 60gf(0.59N)  | 60gf(0.59N)  | 60gf(0.59N)  | --           | 60gf(0.59N)  |
| 预行程 PT max. | 1.8mm        | 2mm          | 6mm          | 8.5mm        | 4mm          | 4.8mm        | 5mm          | 2mm          | 2mm          | 2mm          | 20mm         | 4mm          |
| 超行程 OT min. | 0.5mm        | 5mm          | 4mm          | 3.2mm        | 2mm          | 3mm          | 4mm          | 4mm          | 4mm          | 4mm          | --           | 8mm          |
| 差行程 MD max. | 0.5mm        | 0.8mm        | 2.6mm        | 2mm          | 1.5mm        | 2mm          | 4mm          | 1mm          | 1mm          | 1mm          | --           | 2mm          |
| 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   | --           | 64±2mm       |

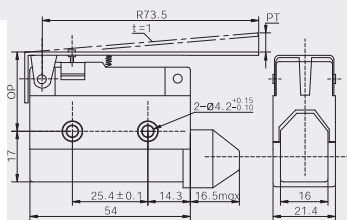
### · 按钮型 XZ7-100



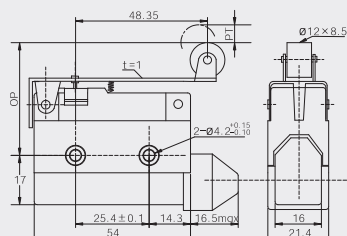
### · 长按钮型 XZ7-110



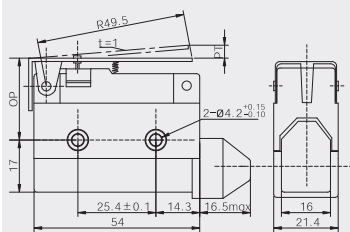
### · 枢轴手柄型 XZ7-120



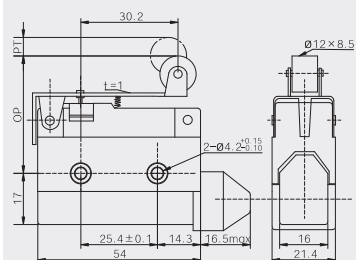
### · 枢轴滚筒手柄型 XZ7-121



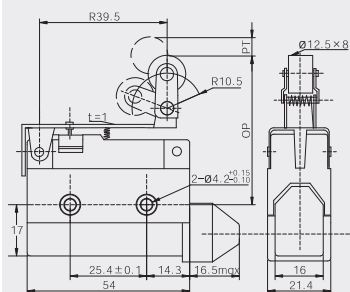
· 枢轴短手柄型  
XZ7-140



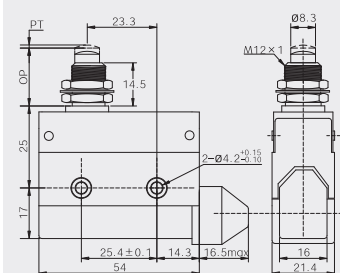
· 枢轴滚筒短手柄型  
XZ7-141



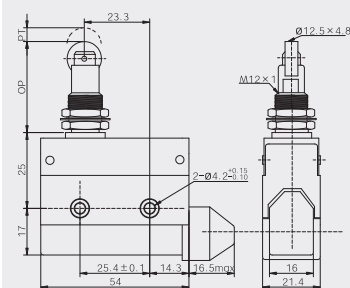
· 单方向动作枢轴滚筒手柄型  
XZ7-144



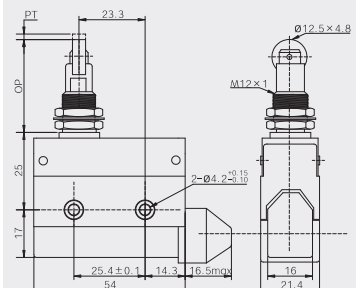
· 面板安装按钮型  
XZ7-310



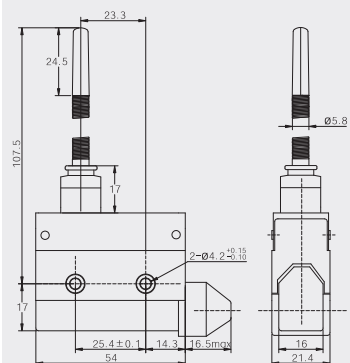
· 面板安装滚筒按钮型  
XZ7-311



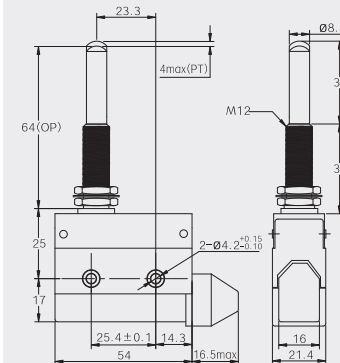
· 面板安装交叉滚筒按钮型  
XZ7-312



· 万向式塑料端头弹簧摇杆型  
XZ7-166



· 面板安装长按钮型  
XZ7-200



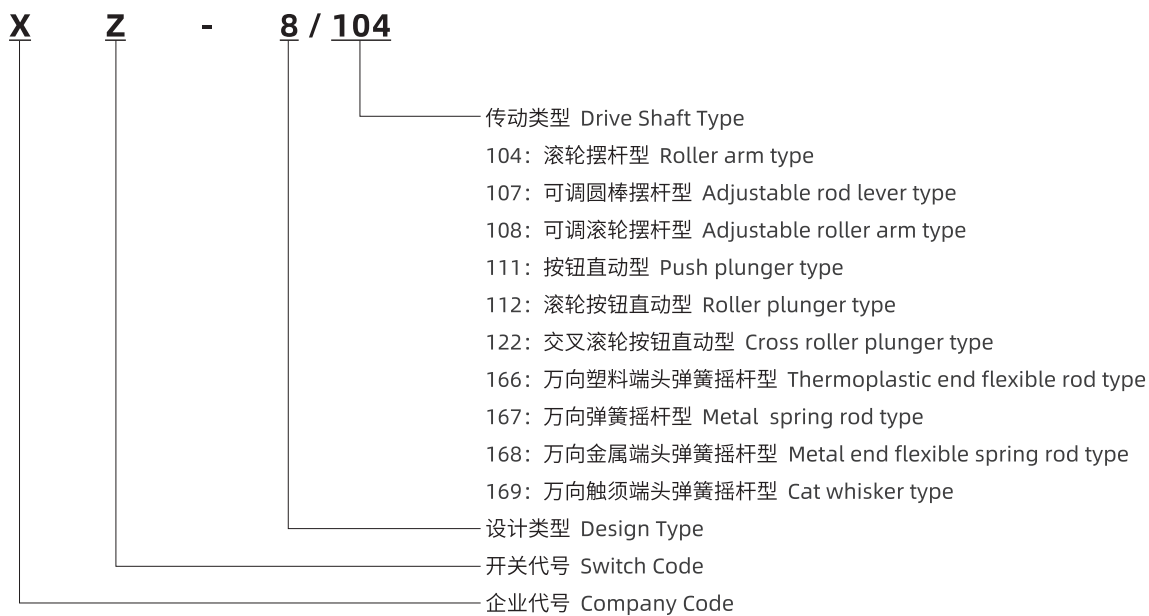


# XZ-8 行程开关 LIMIT SWITCH

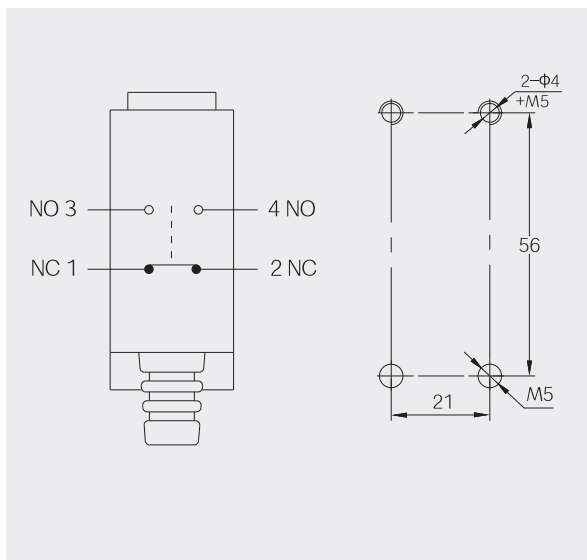
- 外壳由强化塑胶与锌合金组成，结构坚固，容易配线；
- 体积小，可防水、防油；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong structure, made of zinc metal alloy and plastics, easy to contact line;
- Small size, water and oil resistant;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely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



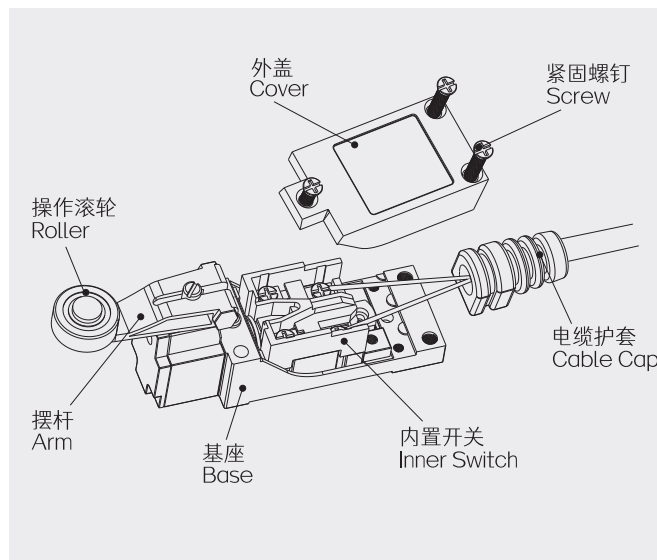
## □ 型号含义 Model & Meanings



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



## □ 产品结构图 Product Structure

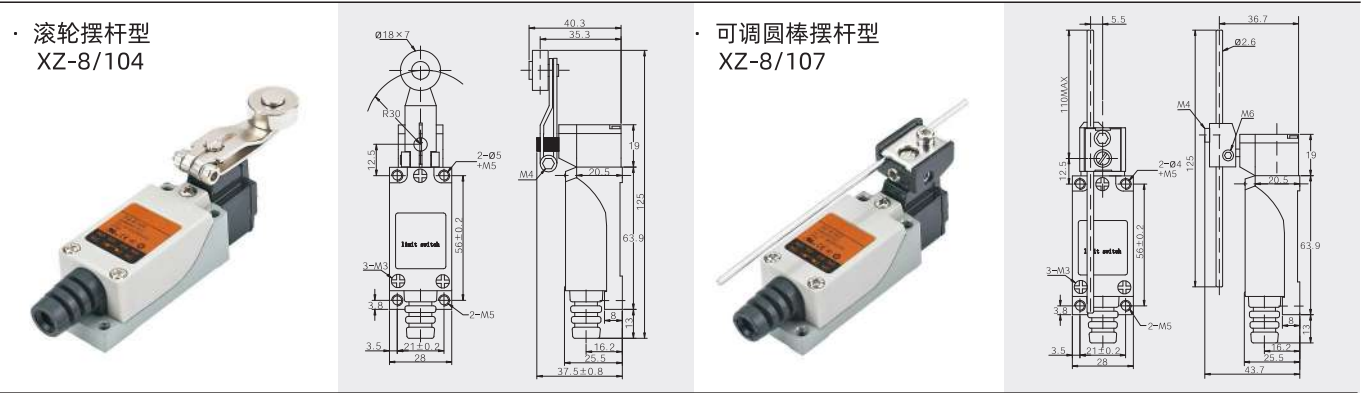


性能参数 Specification

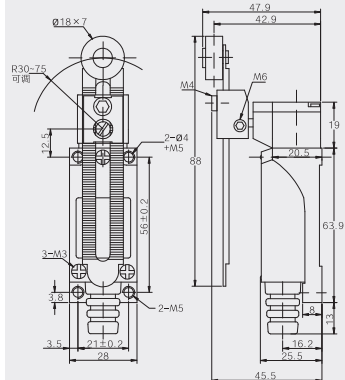
| 项 目 Item                   |                           | 参数值 Data                    |
|----------------------------|---------------------------|-----------------------------|
| 额定负荷 Rating load           |                           | 5A/250VAC                   |
| 操作速度 Operation speed       |                           | 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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

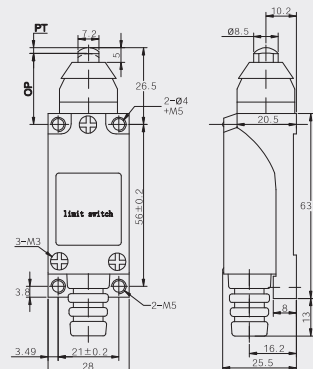
| 型号 Models   | XZ-8/104     | XZ-8/107     | XZ-8/108     | XZ-8/111       | XZ-8/112       | XZ-8/122       | XZ-8/166     | XZ-8/167     | XZ-8/168     | XZ-8/169    |
|-------------|--------------|--------------|--------------|----------------|----------------|----------------|--------------|--------------|--------------|-------------|
| 动作力 OF max. | 700gf(6.86N) | 700gf(6.86N) | 800gf(7.84N) | 1100gf(10.78N) | 1100gf(10.78N) | 1100gf(10.78N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000g(9.8N) |
| 回复力 RF min. | 60gf(0.59N)  | 70gf(0.69N)  | 60gf(0.59N)  | 250gf(2.45N)   | 250gf(2.45N)   | 250gf(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°          | --             | --             | --             | --           | --           | --           | -           |



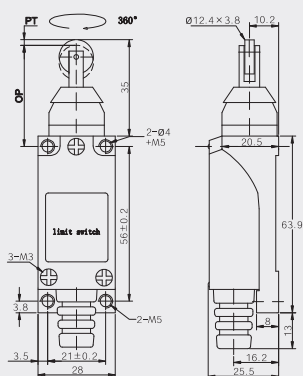
· 可调滚轮摆杆型  
XZ-8/108



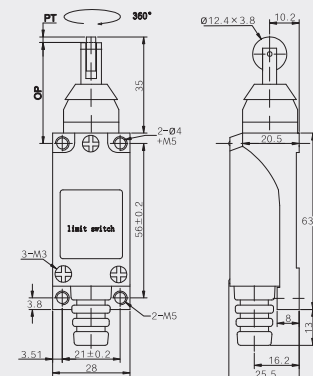
· 按钮型  
XZ-8/111



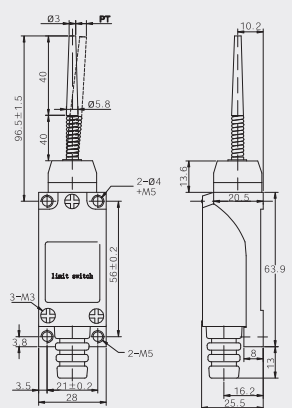
· 滚轮按钮型  
XZ-8/112



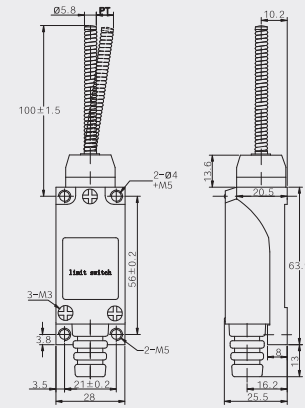
· 交叉滚轮按钮型  
XZ-8/122



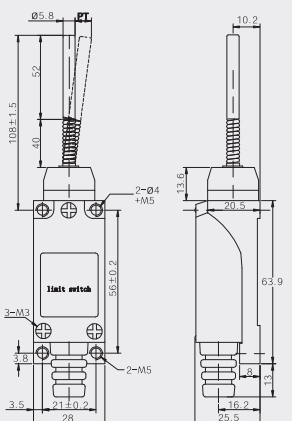
· 万向式塑料端头弹簧摇杆型  
XZ-8/166



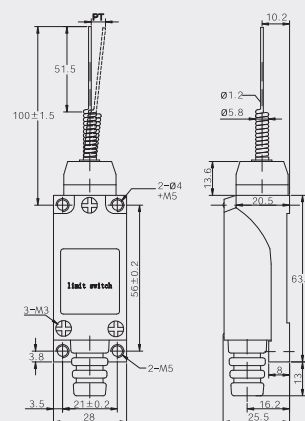
· 万向式弹簧摇杆型  
XZ-8/167



· 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



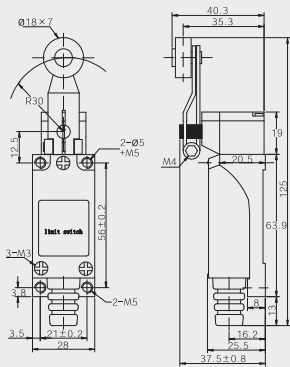
性能参数 Specification

| 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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%                        |

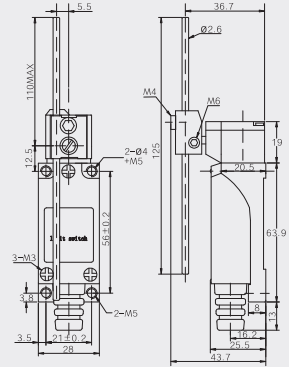
外形尺寸/动作特性 Dimensions/Operating Characteristics

| 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. | 700gf(6.86N) | 700gf(6.86N) | 800gf(7.84N) | 1100gf(10.78N) | 1100gf(10.78N) | 1100gf(10.78N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) |
| 回复力 RF min. | 60gf(0.59N)  | 70gf(0.69N)  | 60gf(0.59N)  | 250gf(2.45N)   | 250gf(2.45N)   | 250gf(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



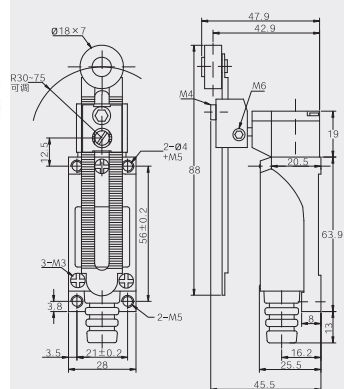
可调圆棒摆杆型  
XZ-8107



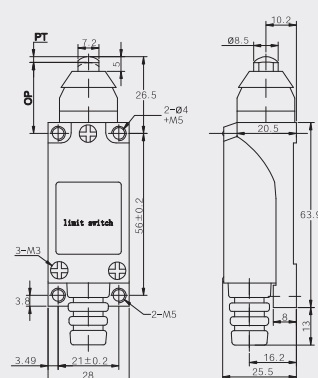


# XZ-8N 行程开关 LIMIT SWITCH

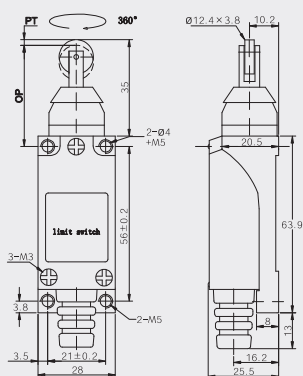
· 可调滚轮摆杆型  
XZ-8108



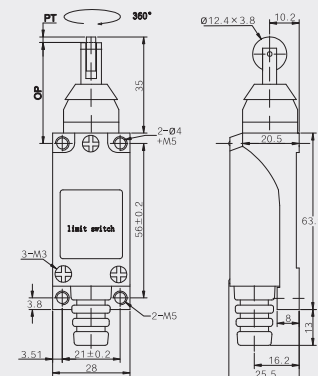
· 按钮型  
XZ-8111



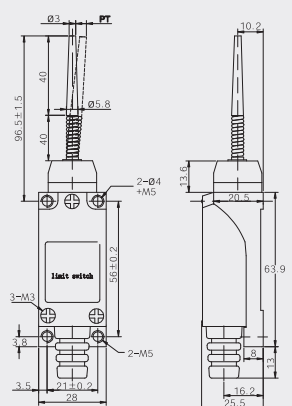
· 滚轮按钮型  
XZ-8112



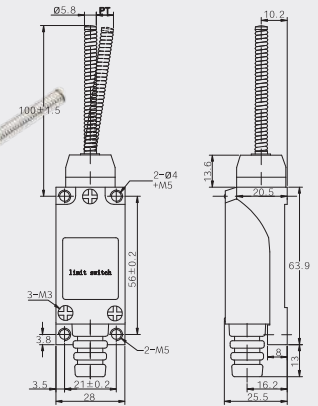
· 交叉滚轮按钮型  
XZ-8122



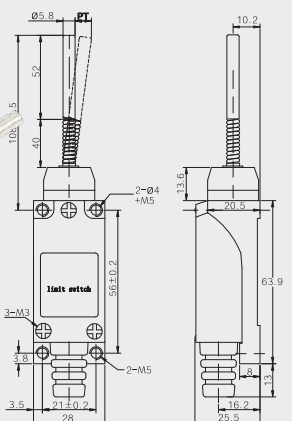
· 万向式塑料端头弹簧摇杆型  
XZ-8166



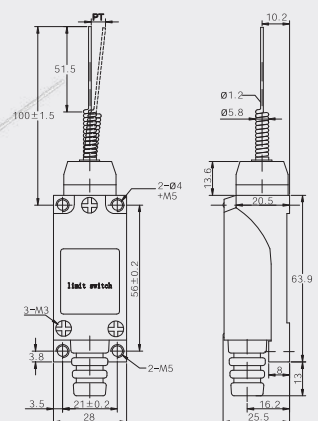
· 万向式弹簧摇杆型  
XZ-8167



· 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



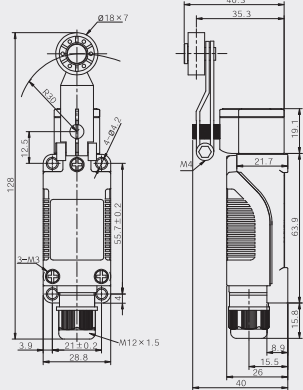
## □ 性能参数 Specification

|                            |                           |                             |
|----------------------------|---------------------------|-----------------------------|
| 项 目 Item                   |                           | 参数值 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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%                        |

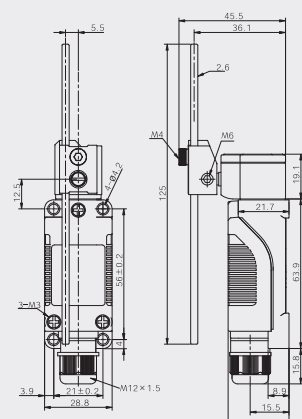
## □ 外形尺寸/动作特性 Dimensions/Operating Characteristics

| 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. | 700gf(6.86N) | 700gf(6.86N) | 800gf(7.84N) | 1100gf(10.78N) | 1100gf(10.78N) | 1100gf(10.78N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) |
| 回复力  | RF min. | 60gf(0.59N)  | 70gf(0.69N)  | 60gf(0.59N)  | 250gf(2.45N)   | 250gf(2.45N)   | 250gf(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°          | --             | --             | --             | --           | --           | --           | --           |

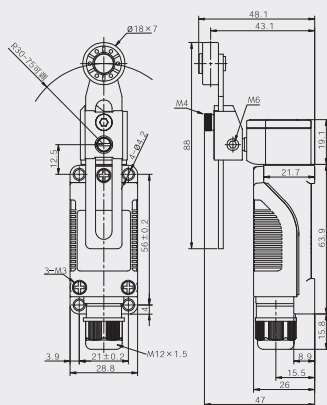
· 滚轮摆杆型  
XZ-8104



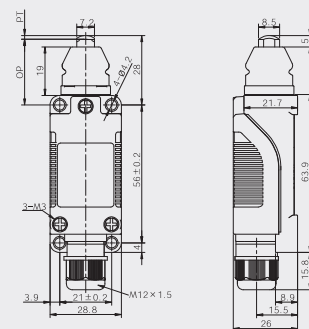
· 可调圆棒摆杆型  
XZ-8107



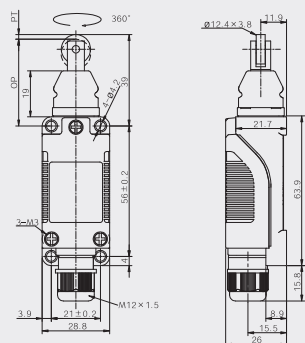
- 可调滚轮摆杆型  
XZ-8108



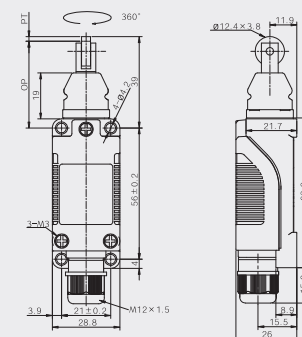
· 按钮型  
XZ-8111



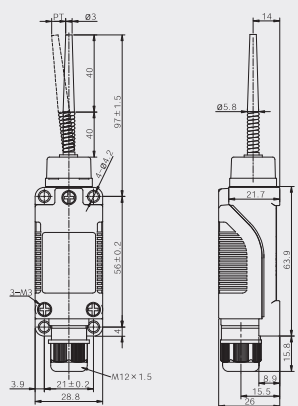
- 滚轮按钮型  
XZ-8112



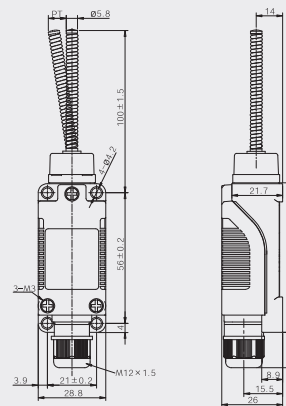
- 交叉滚轮按钮型  
XZ-8122



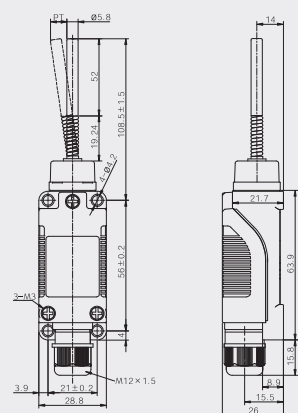
· 万向式塑料端头弹簧摇杆型  
XZ-8166



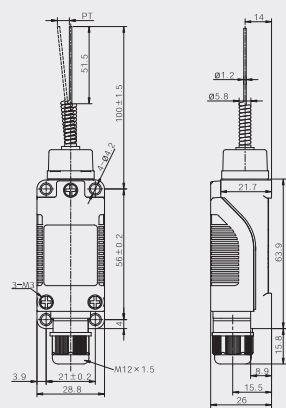
· 万向式弹簧摇杆型  
XZ-8167



· 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

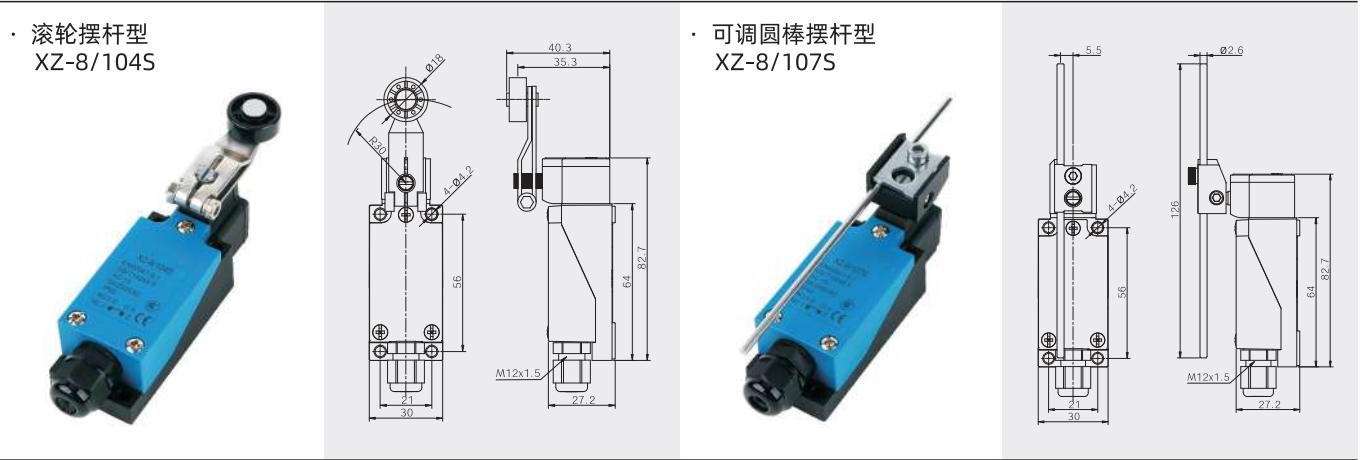


性能参数 Specification

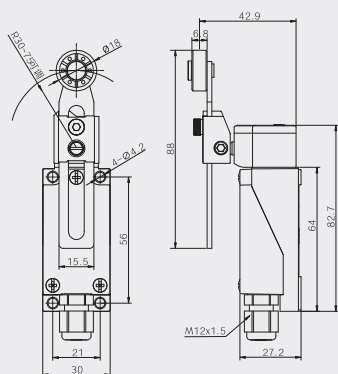
| 项 目 Item                   |                           | 参数值 Data                    |
|----------------------------|---------------------------|-----------------------------|
| 额定负荷 Rating load           |                           | 5A/250VAC                   |
| 操作速度 Operation speed       |                           | 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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

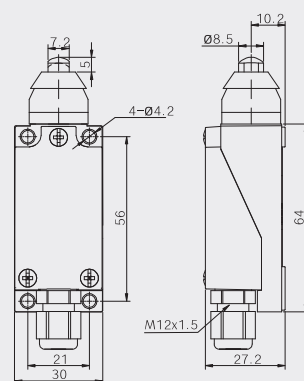
| 型号 Models   | XZ-8/104S    | XZ-8/107S    | XZ-8/108S    | XZ-8/111S      | XZ-8/112S      | XZ-8/122S      | XZ-8/166S    | XZ-8/167S    | XZ-8/168S    | XZ-8/169S    |
|-------------|--------------|--------------|--------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|
| 动作力 OF max. | 700gf(6.86N) | 700gf(6.86N) | 800gf(7.84N) | 1100gf(10.78N) | 1100gf(10.78N) | 1100gf(10.78N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) |
| 回复力 RF min. | 60gf(0.59N)  | 70gf(0.69N)  | 60gf(0.59N)  | 250gf(2.45N)   | 250gf(2.45N)   | 250gf(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°          | --             | --             | --             | --           | --           | --           | --           |



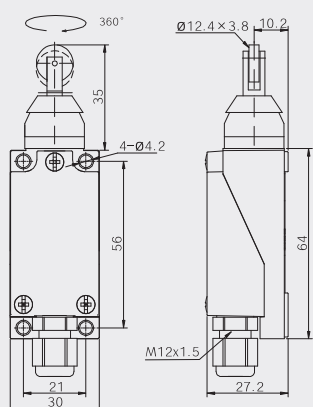
· 可调滚轮摆杆型  
XZ-8/108S



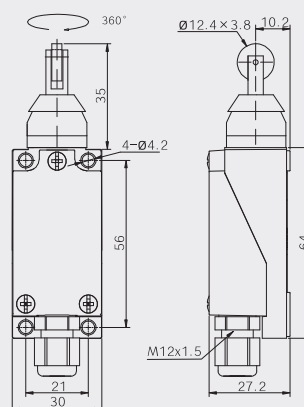
· 按钮型  
XZ-8/111S



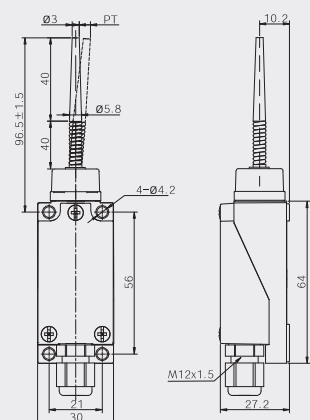
· 滚轮按钮型  
XZ-8/112S



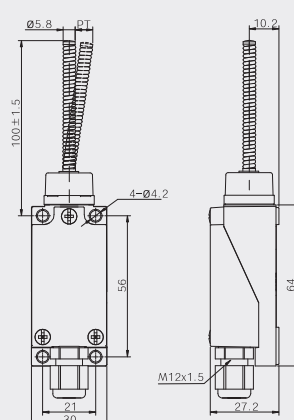
· 交叉滚轮按钮型  
XZ-8/122S



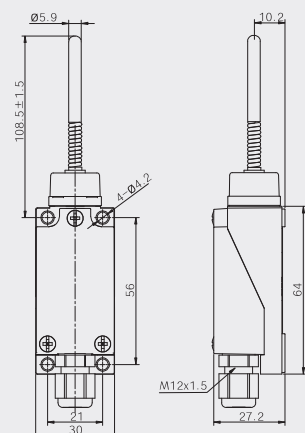
· 万向式塑料端头弹簧摇杆型  
XZ-8/166S



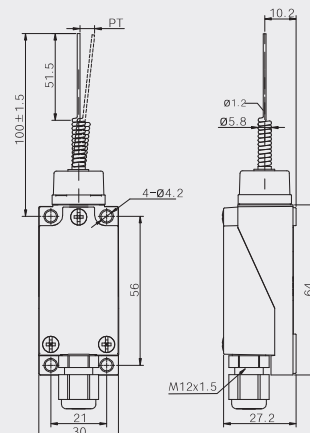
· 万向式弹簧摇杆型  
XZ-8/167S



· 万向式金属端头弹簧摇杆型  
XZ-8/168S



· 万向式触须端头弹簧摇杆型  
XZ-8/169S





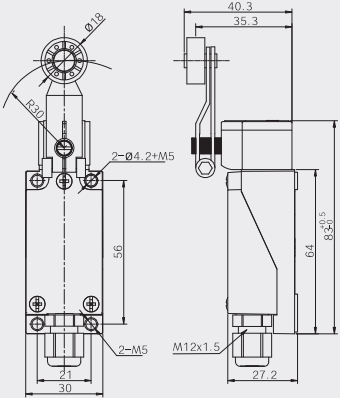
性能参数 Specification

| 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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%                        |

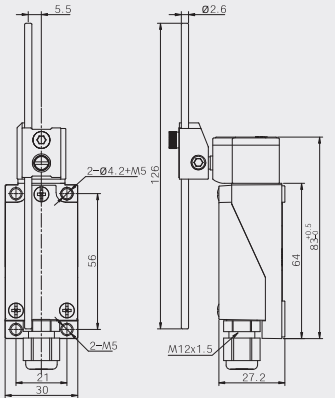
外形尺寸/动作特性 Dimensions/Operating Characteristics

| 型号 Models   | XZ-8/104SZ   | XZ-8/107SZ   | XZ-8/108SZ   | XZ-8/111SZ     | XZ-8/112SZ     | XZ-8/122SZ     | XZ-8/166SZ   | XZ-8/167SZ   | XZ-8/168SZ   | XZ-8/169SZ   |
|-------------|--------------|--------------|--------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|
| 动作力 OF max. | 700gf(6.86N) | 700gf(6.86N) | 800gf(7.84N) | 1100gf(10.78N) | 1100gf(10.78N) | 1100gf(10.78N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) | 1000gf(9.8N) |
| 回复力 RF min. | 60gf(0.59N)  | 70gf(0.69N)  | 60gf(0.59N)  | 250gf(2.45N)   | 250gf(2.45N)   | 250gf(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-8/104SZ

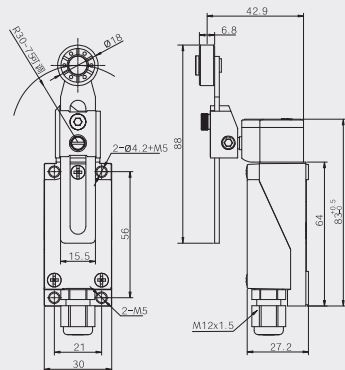


· 可调圆棒摆杆型  
XZ-8/107SZ

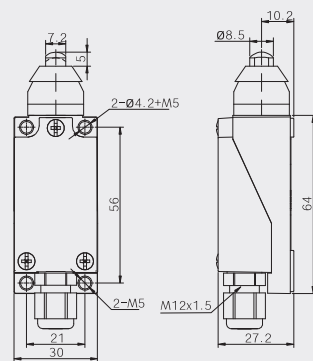


# XZ-8SZ 行程开关 LIMIT SWITCH

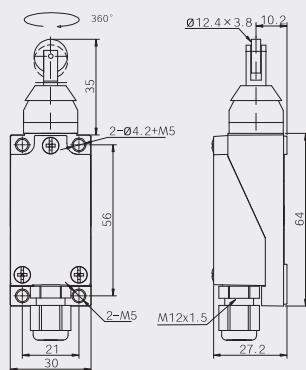
· 可调滚轮摆杆型  
XZ-8/108SZ



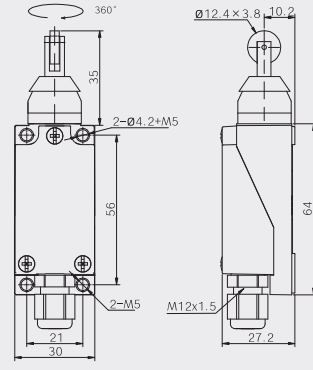
· 按钮型  
XZ-8/111SZ



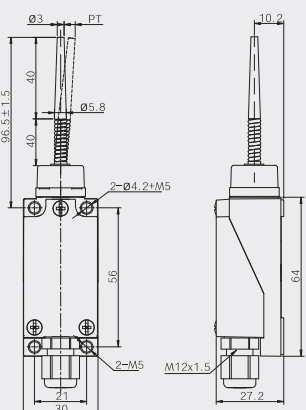
· 滚轮按钮型  
XZ-8/112SZ



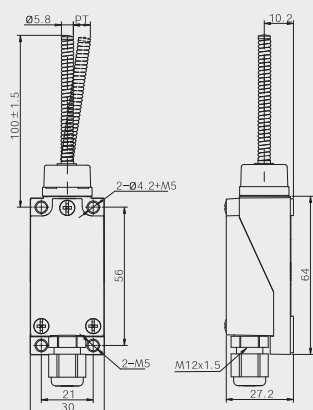
· 交叉滚轮按钮型  
XZ-8/122SZ



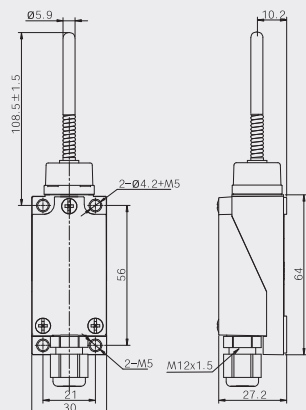
· 万向式塑料端头弹簧摇杆型  
XZ-8/166SZ



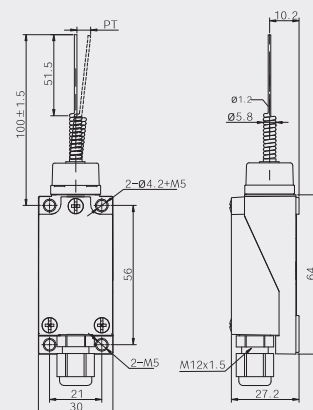
· 万向式弹簧摇杆型  
XZ-8/167SZ



· 万向式金属端头弹簧摇杆型  
XZ-8/168SZ



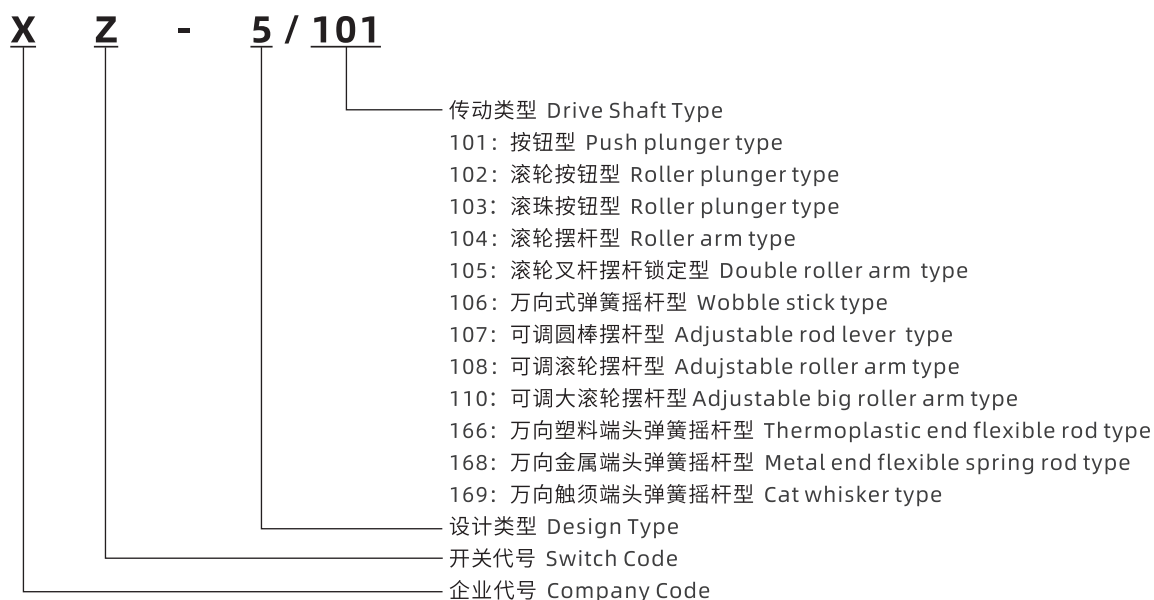
· 万向式触须端头弹簧摇杆型  
XZ-8/169SZ



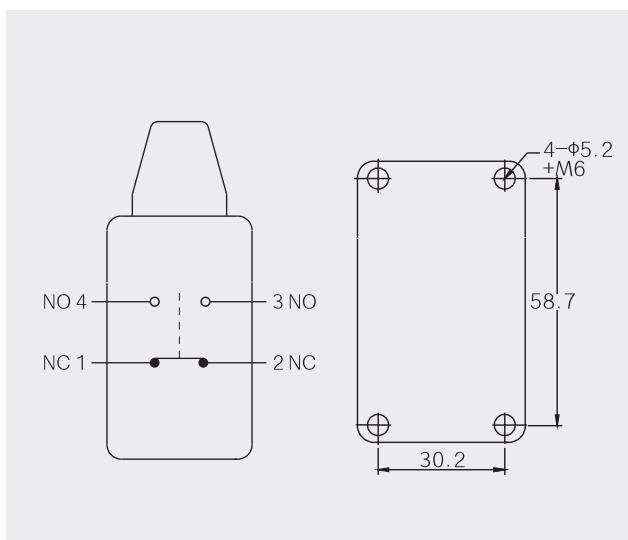
- 铝合金外壳，结构坚固，高机械强度；
- 具有防水、防油、防压等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong aluminum alloy cast outer shell, strong structure and high mechanical strength;
- Preventing oil, water and pressure;
- Double way switch, double spring inner switch;
- Variety of levers;
-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



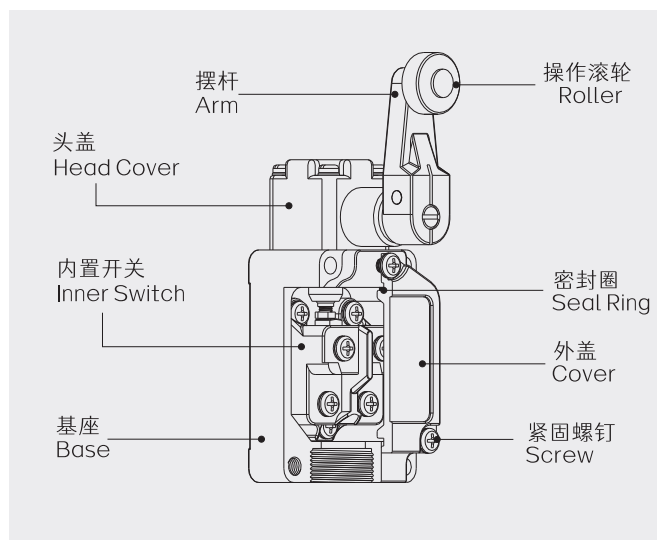
## □ 型号含义 Model & Meanings



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



## □ 产品结构图 Product Structure



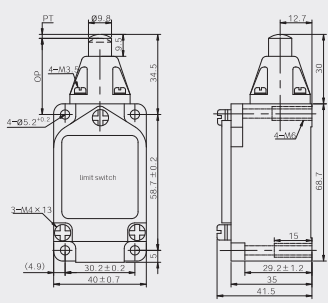
性能参数 Specification

| 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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%                      |                             |

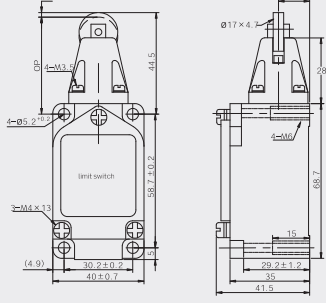
外形尺寸/动作特性 Dimensions/Operating Characteristics

| 型号 Models   | XZ-5/101       | XZ-5/102       | XZ-5/103       | XZ-5/104       | XZ-5/105       | XZ-5/106     | XZ-5/107       | XZ-5/108<br>XZ-5/110 | XZ-5/166     | XZ-5/168    | XZ-5/169    |
|-------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------------|--------------|-------------|-------------|
| 动作力 OF max. | 2750gf(26.95N) | 2750gf(26.95N) | 2720gf(26.66N) | 1400gf(13.72N) | 1200gf(11.76N) | 150gf(1.47N) | 1400gf(13.72N) | 1400gf(13.72N)       | 120gf(1.17N) | 80gf(0.78N) | 29gf(0.28N) |
| 回复力 RF min. | 900gf(8.82N)   | 900gf(8.82N)   | 910gf(8.82N)   | 220gf(2.13N)   | --             | --           | 220gf(2.13N)   | 220gf(2.13N)         | --           | --          | --          |
| 预行程 PT max. | 1.7mm          | 2mm            | 1.7mm          | 45°            | 45°            | 22mm         | 30°            | 30°                  | 28mm         | 28mm        | 28mm        |
| 超行程 OT min. | 4mm            | 5mm            | 5.6mm          | 10°            | 10°            | --           | 25°            | 25°                  | --           | --          | --          |
| 差行程 MD max. | 1.2mm          | 1.5mm          | 1mm            | 20°            | 12°            | --           | 20°            | 20°                  | --           | --          | --          |
| 动作位置 OP     | 34±0.8mm       | 44±0.8mm       | 9±0.8mm        | --             | --             | --           | --             | --                   | --           | --          | --          |
| 总行程 TT      | --             | --             | --             | 55°            | 55°            | --           | 55°            | 55°                  | --           | --          | --          |

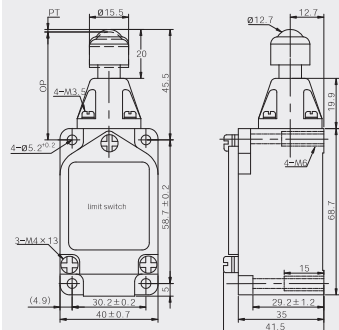
· 按钮型  
XZ-5/101



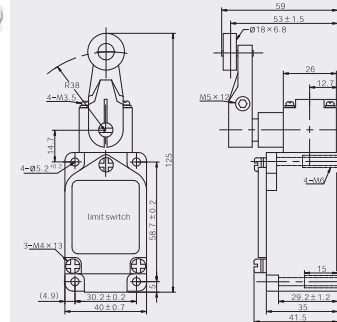
· 滚轮按钮型  
XZ-5/102



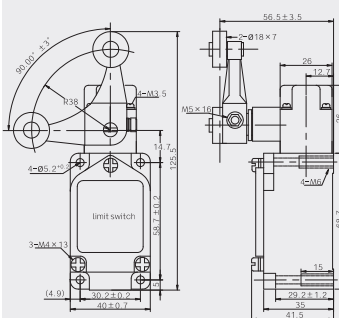
· 滚珠按钮型  
XZ-5/103



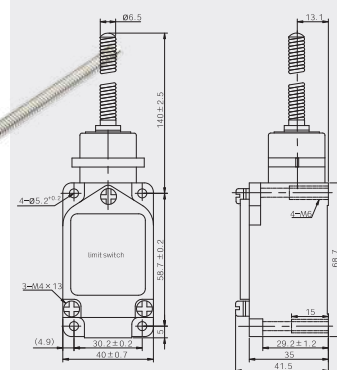
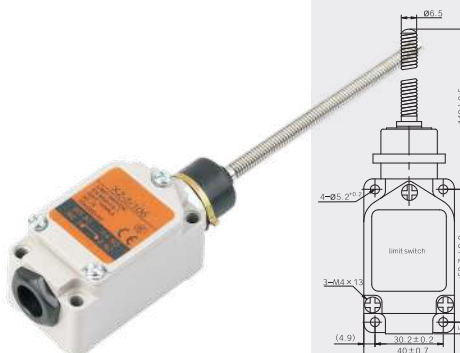
· 滚轮摆杆型  
XZ-5/104



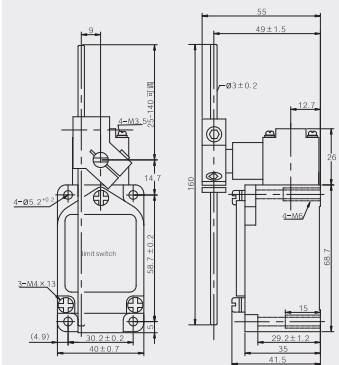
· 滚轮叉杆摆杆锁定型  
XZ-5/105



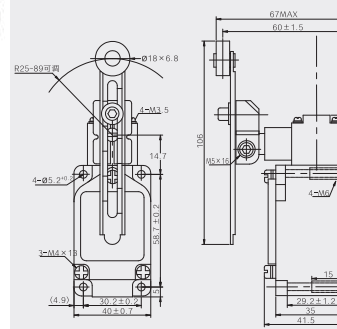
· 万向式弹簧摇杆型  
XZ-5/106



· 可调圆棒摆杆型  
XZ-5/107

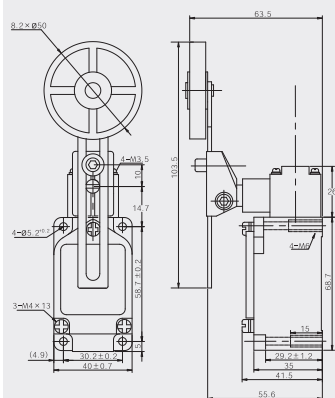


· 可调滚轮摆杆型  
XZ-5/108

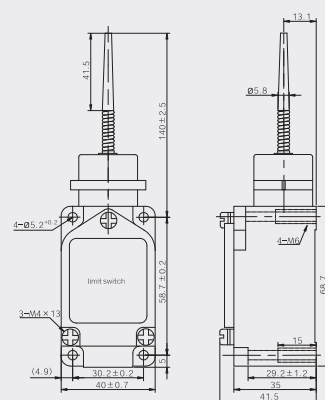




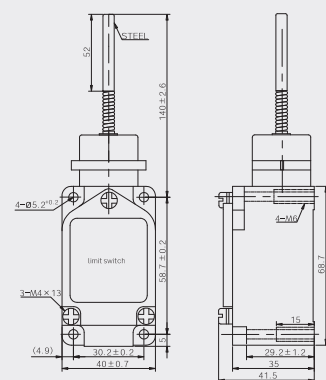
· 可调大滚轮摆杆型  
XZ-5/110



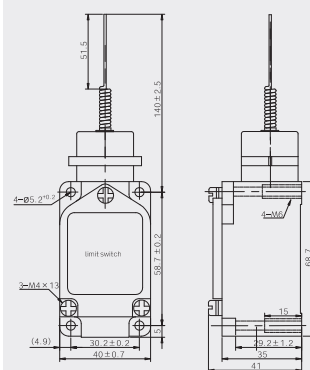
· 万向塑料端头弹簧摇杆型  
XZ-5/166



· 万向金属端头弹簧摇杆型  
XZ-5/168



· 万向触须端头弹簧摇杆型  
XZ-5/169



# XZ-91 行程开关 LIMIT SWITCH

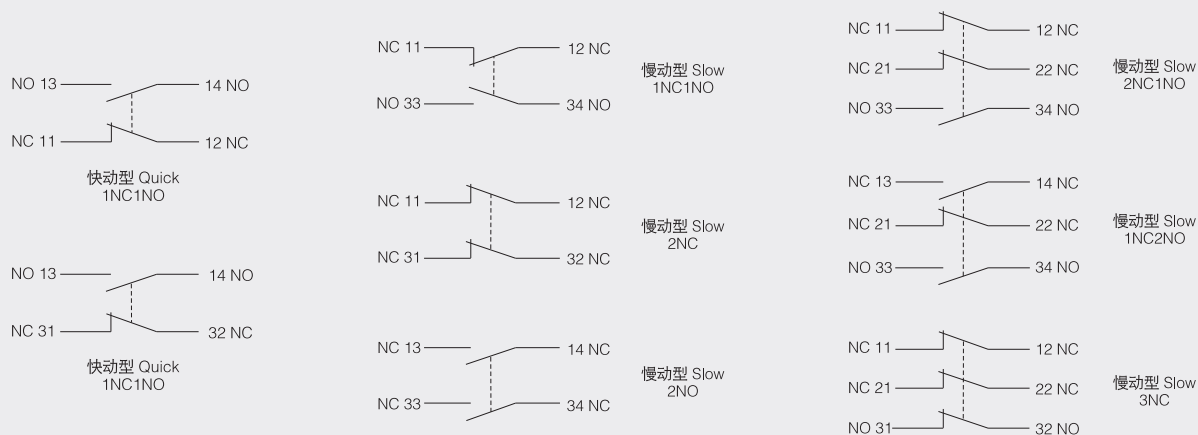
- 经济型塑料外壳，重量轻；
- 具有防水、防油、等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Economic plastic housing, light weight;
- Preventing oil and water;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical equipment ,automatic machine, and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



## □ 型号含义 Model & Meanings

| X | Z | - | 91 | 08 | R | S | C                                                                                                                                                                                                                                                                                                                                                                            |
|---|---|---|----|----|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |   |   |    |    |   |   | 触点形式 Contact form                                                                                                                                                                                                                                                                                                                                                            |
|   |   |   |    |    |   |   | 无 None: 1NC1NO C: 2NC O: 2NO<br>2CO: 2NC1NO C2O: 1NC2NO 3C: 3NC                                                                                                                                                                                                                                                                                                              |
|   |   |   |    |    |   |   | 动作类型 Act type                                                                                                                                                                                                                                                                                                                                                                |
|   |   |   |    |    |   |   | 无 None: 快动型 Quick 10A<br>S: 慢动型 Slow 3A S(q): 快动型 Quick 3A                                                                                                                                                                                                                                                                                                                   |
|   |   |   |    |    |   |   | 复位方式 Reset form                                                                                                                                                                                                                                                                                                                                                              |
|   |   |   |    |    |   |   | 无None: 自动复位 Automatic reset<br>R: 带锁手动复位 Hand reset                                                                                                                                                                                                                                                                                                                          |
|   |   |   |    |    |   |   | 传动类型 Drive Shaft type                                                                                                                                                                                                                                                                                                                                                        |
|   |   |   |    |    |   |   | 01: 按钮型 Push plunger type<br>02: 滚轮按钮型 Roller plunger type<br>03: 滚轮转臂内向按钮型 Roller lever type<br>04: 滚轮摆杆型 Roller arm type<br>05: 滚轮转臂外向按钮型 Roller lever type<br>06: 万向触须端头弹簧摇杆型 Cat whisker type<br>07: 可调圆棒摆杆型 Plastic end flexible rod type<br>08: 可调滚轮摆杆型 Adjustable roller arm type<br>09: 万向金属端头弹簧摇杆型 Wobble stick type<br>10: 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 Contact Form



### □ 性能参数 Specification

| 项 目 Item                   |                           | 参数值 Data                            |
|----------------------------|---------------------------|-------------------------------------|
| 额定负荷 Rating load           |                           | 10AV250VAC; 3A1240VAC; 0.27A1250VDC |
| 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 <sup>2</sup>                |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>                 |
| 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%                                |

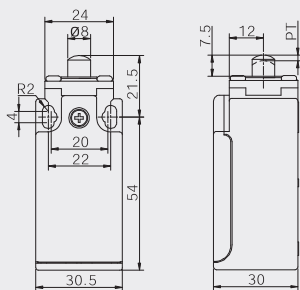
### □ 外形尺寸/动作特性 Dimensions/Operating Characteristics

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

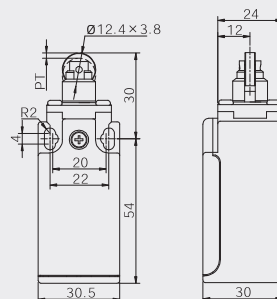
| 型号 Models   | XZ-9101R     | XZ-9102R     | XZ-9103R     | XZ-9104R     | XZ-9105R    | XZ-9108R     | XZ-9110R     | XZ-9110AR    |
|-------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
| 动作力 OF max. | 700gf(6.86N) |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

| 型号 Models   | XZ-9201      | XZ-9202      | XZ-9203      | XZ-9203B     | XZ-9204     | XZ-9205      | XZ-9206      | XZ-9207      | XZ-9208     | XZ-9209      | XZ-9210     |
|-------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|-------------|
| 动作力 OF max. | 700gf(6.86N) | 700gf(6.86N) | 700gf(6.86N) | 700gf(6.86N) | 500gf(4.9N) | 700gf(6.86N) | 100gf(0.98N) | 100gf(0.98N) | 500gf(4.9N) | 100gf(0.98N) | 500gf(4.9N) |
| 回复力 RF min. | 180gf(1.76N) | 180gf(1.76N) | 180gf(1.76N) | 180gf(1.76N) | 80gf(0.78N) | 180gf(1.76N) | 30gf(0.29N)  | 30gf(0.29N)  | 80gf(0.78N) | 30gf(0.29N)  | 80gf(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°         |

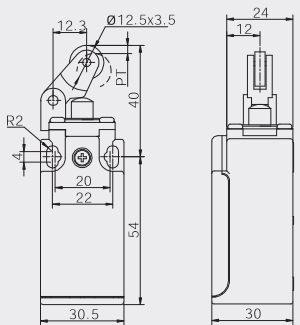
- 按钮型  
XZ-9101  
XZ-9101S



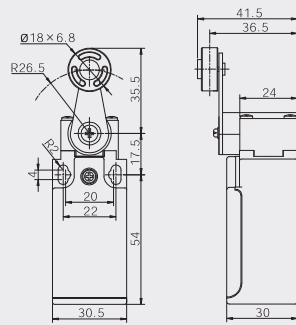
- 滚轮按钮型  
XZ-9102  
XZ-9102S



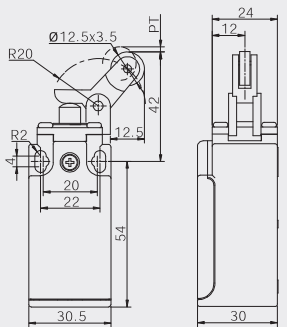
- 滚轮转臂按钮型  
XZ-9103  
XZ-9103S



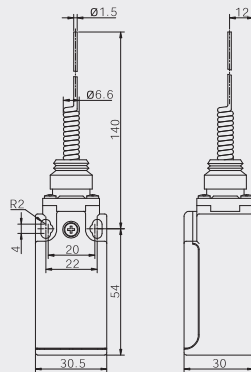
- 可调滚轮摆杆型  
XZ-9104



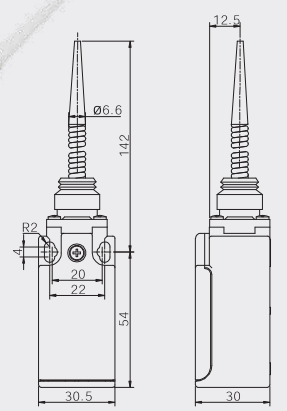
- 滚轮转臂按钮型  
XZ-9105  
XZ-9105S



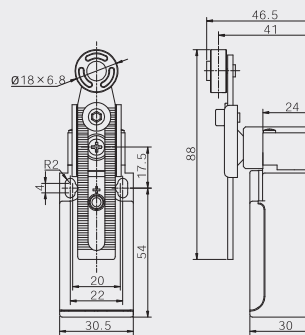
- 万向式触须端头弹簧摇杆型  
XZ-9106  
XZ-9106S



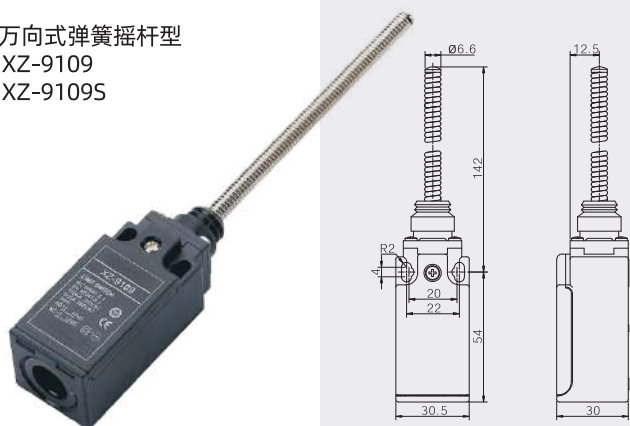
- 万向式触须端头弹簧摇杆型  
XZ-9107  
XZ-9107S



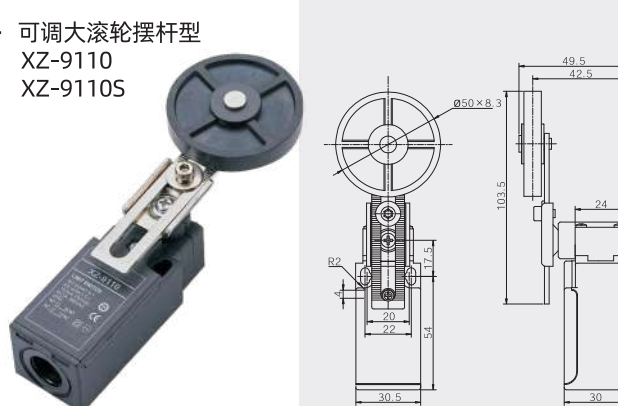
- 可调滚轮摆杆型  
XZ-9108  
XZ-9108S



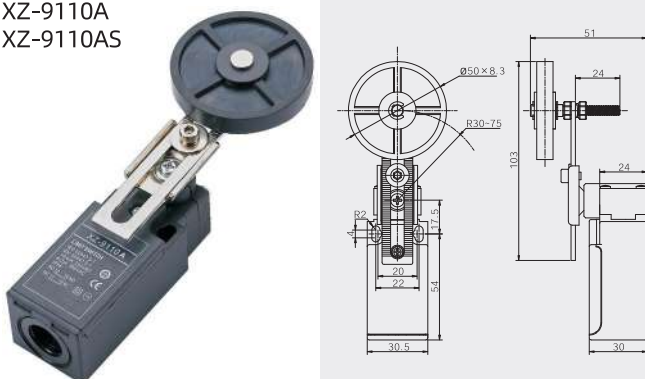
- 万向式弹簧摇杆型  
XZ-9109  
XZ-9109S



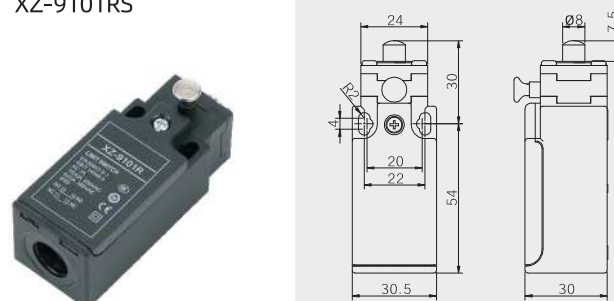
- 可调大滚轮摇杆型  
XZ-9110  
XZ-9110S



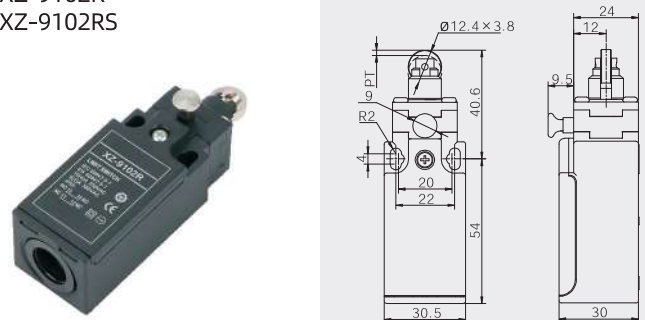
- 四向可调大滚轮摇杆型  
XZ-9110A  
XZ-9110AS



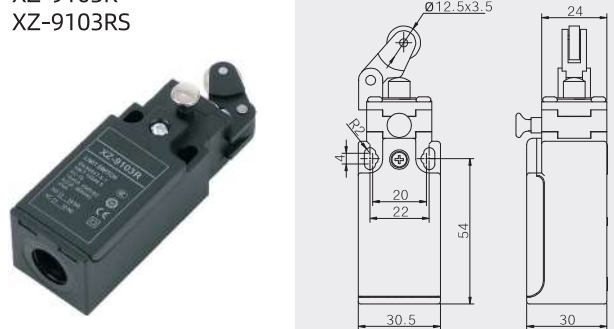
- 按钮手动复位型  
XZ-9101R  
XZ-9101RS



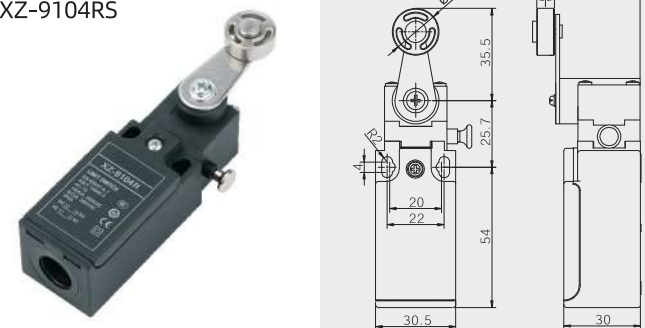
- 滚轮按钮手动复位型  
XZ-9102R  
XZ-9102RS



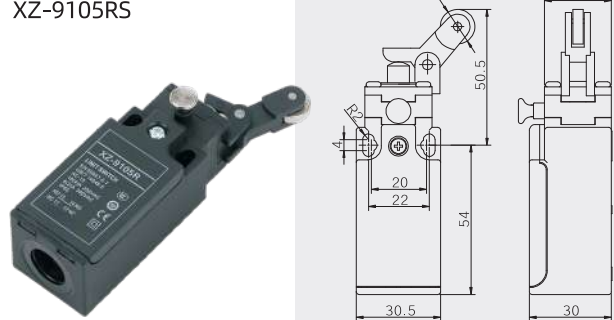
- 滚轮转臂按钮手动复位型  
XZ-9103R  
XZ-9103RS



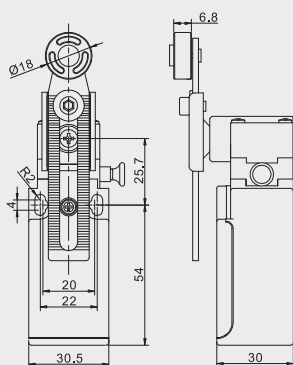
- 可调滚轮摇杆手动复位型  
XZ-9104R  
XZ-9104RS



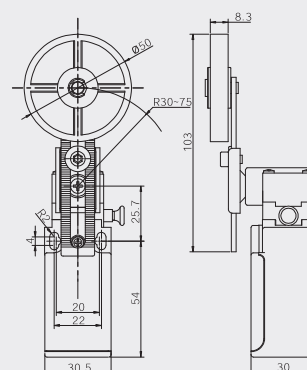
- 滚轮转臂按钮手动复位型  
XZ-9105R  
XZ-9105RS



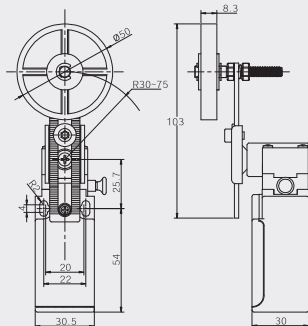
- 可调滚轮摆杆手动复位型  
XZ-9108R  
XZ-9108RS



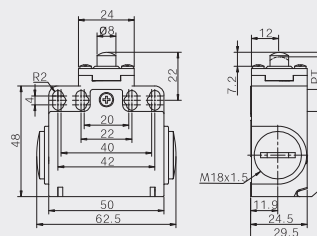
- 可调大滚轮摆杆手动复位型  
XZ-9110R  
XZ-9110RS



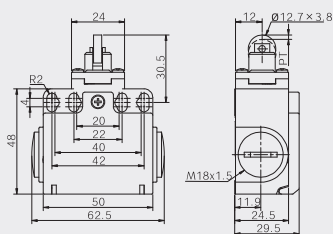
- 四向可调大滚轮摆杆手动复位型  
XZ-9110AR  
XZ-9110ARS



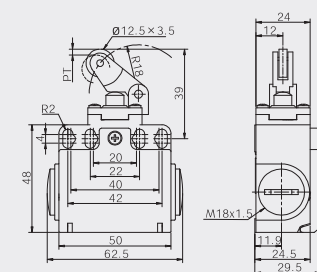
- 按钮型  
XZ-9201



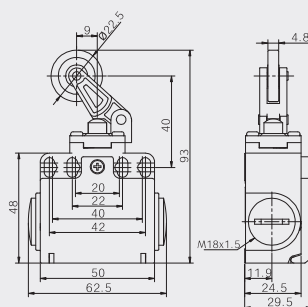
- 滚轮按钮型  
XZ-9202



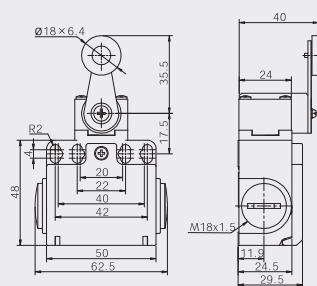
- 滚轮转臂摆杆型  
XZ-9203



- 滚轮转臂按钮型  
XZ-9203B

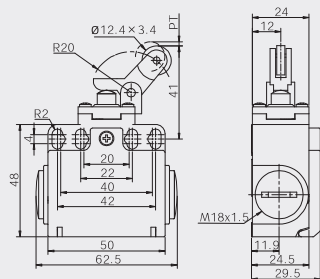


- 滚轮摆杆型  
XZ-9204

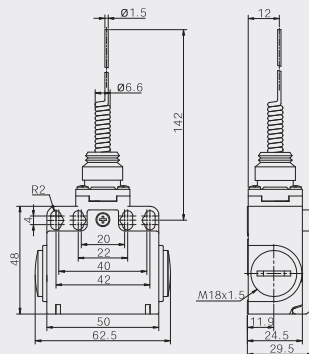




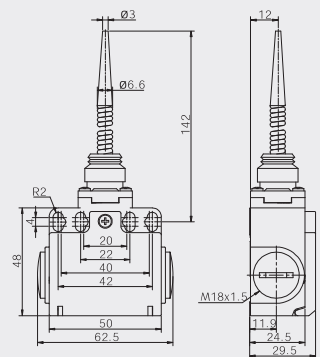
滚轮转臂按钮型  
XZ-9205



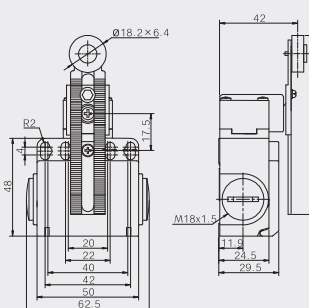
万向式触须端头弹簧摇杆型  
XZ-9206



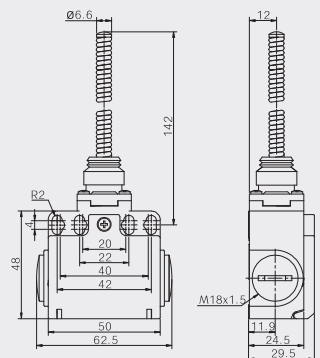
万向式塑料端头弹簧摇杆型  
XZ-9207



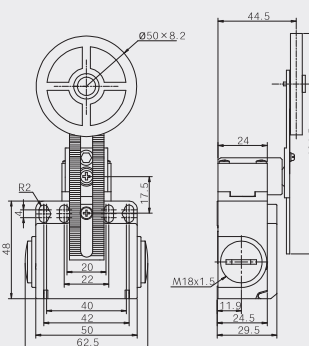
可调滚轮摆杆型  
XZ-9208



万向式弹簧摇杆型  
XZ-9209



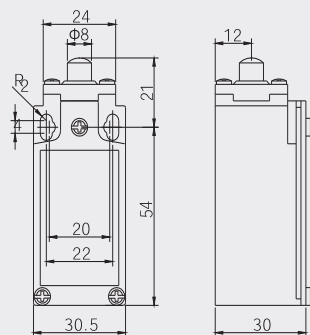
可调大滚轮摆杆型  
XZ-9210



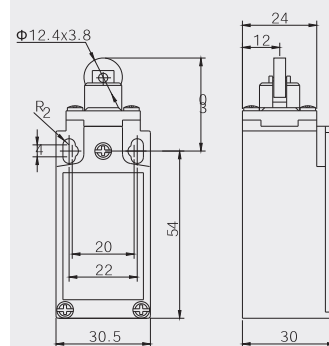
## □ 外形尺寸/动作特性 Dimensions/Operating Characteristics

| 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) | 700gf(6.86N) | 700gf(6.86N) | 500gf(4.9N) | 700gf(6.86N) | 100gf(0.98N) | 100gf(0.98N) | 500gf(4.9N) | 100gf(0.98N) | 500gf(4.9N) |
| 回复力 | RF min. | 180g(1.76N) | 180gf(1.76N) | 180gf(1.76N) | 80gf(0.78N) | 180gf(1.76N) | 30gf(0.29N)  | 30gf(0.29N)  | 80gf(0.78N) | 30gf(0.29N)  | 80gf(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°         |

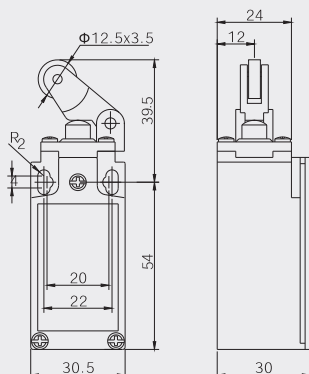
· 按钮型  
XZ-9101M



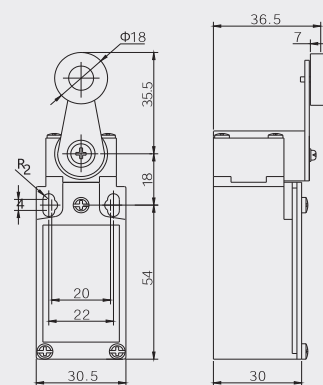
· 滚轮按钮型  
XZ-9102M



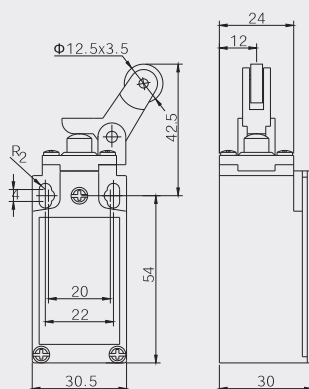
· 滚轮转臂按钮型  
XZ-9103M



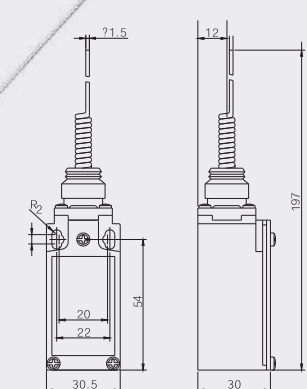
· 可调滚轮摆杆型  
XZ-9104M



· 滚轮转臂按钮型  
XZ-9105M

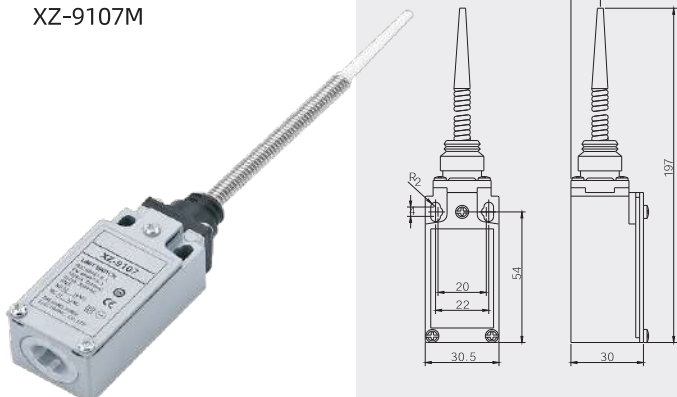


· 万向式触须端头弹簧摇杆型  
XZ-9106M

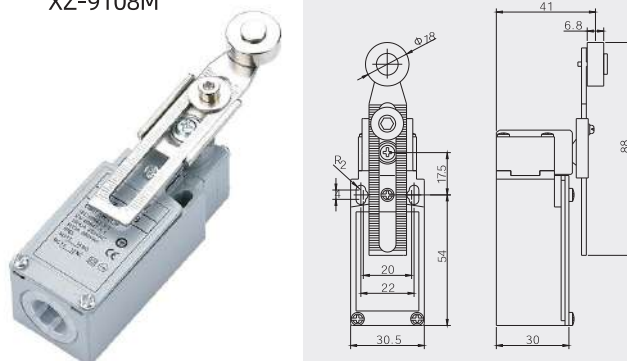


# XZ-91M 行程开关 LIMIT SWITCH

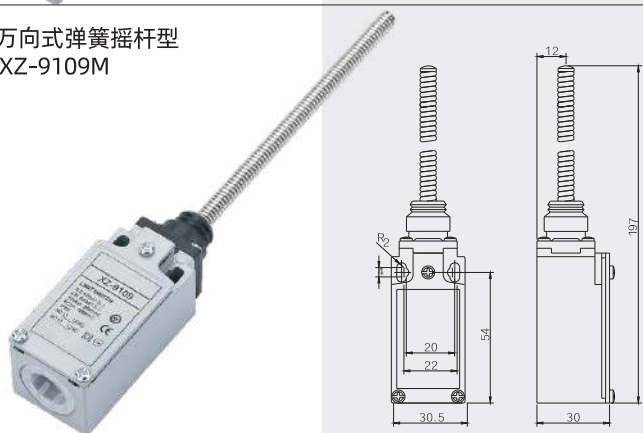
· 万向式塑料端头弹簧摇杆型  
XZ-9107M



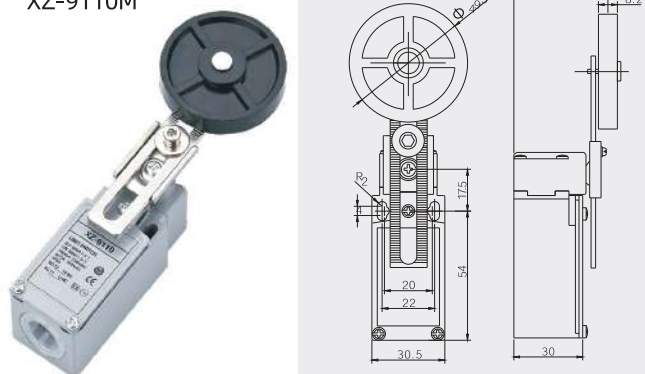
· 可调滚轮摆杆型  
XZ-9108M



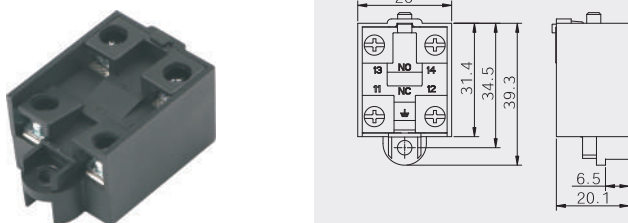
· 万向式弹簧摇杆型  
XZ-9109M



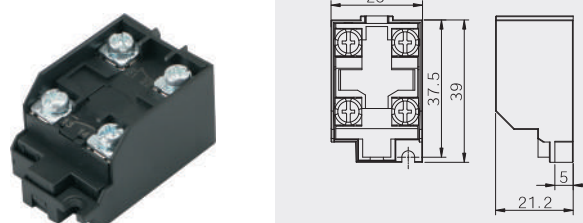
· 可调大滚轮摆杆型  
XZ-9110M



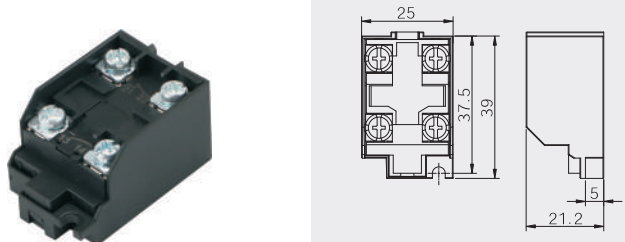
· 内置型开关(快动Quick)  
XZ-9/N10



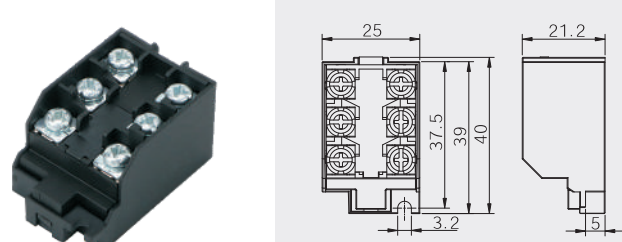
· 内置型开关(快动Quick)  
XZ-9/N3



· 内置型开关(慢动Slow)  
XZ-9/N35



· 内置型开关((慢动Slow)  
XZ-9/N35(6触点Contact)

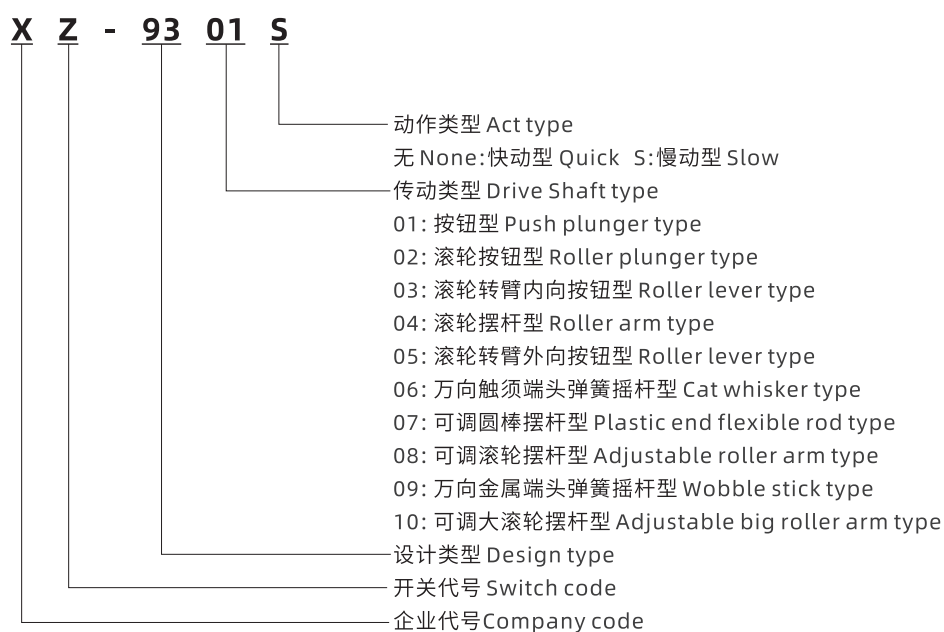


# XZ-93 行程开关 LIMIT SWITCH

- 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 action⊖operation structure ;
- Variety of levers;
- Widely used in Mechanical equipment ,automatic machine, and instrument, electro motion tool etc.



## □ 型号含义 Model & Meanings



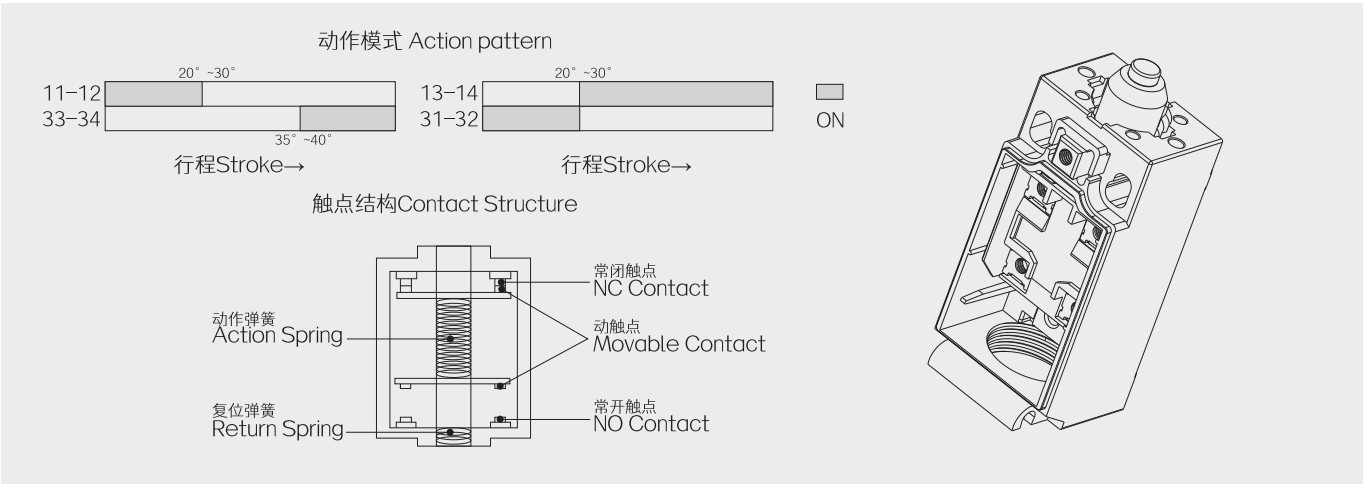
## □ 触点形式及安装孔尺寸 Contact Forms&Mounting Hole Dimensions



性能参数 Specification

| 项 目 Item                   |                           | 参数值 Data                    |
|----------------------------|---------------------------|-----------------------------|
| 额定负荷 Rating load           |                           | 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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%                        |

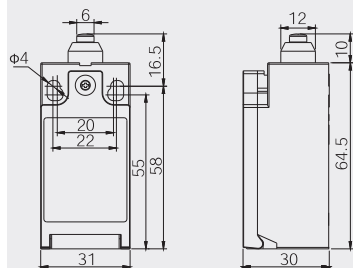
产品结构图 Product Structure



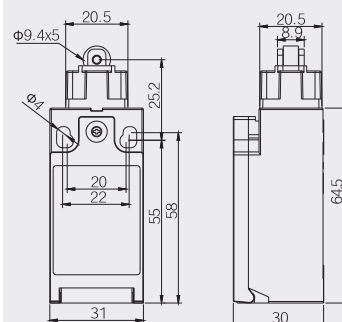
外形尺寸/动作特性 Dimensions/Operating Characteristics

| 型号 Models    | XZ-9301(S)   | XZ-9302(S)   | XZ-9304(S)  | XZ-9308(S) | XZ-9310(S)  |
|--------------|--------------|--------------|-------------|------------|-------------|
| 动作力 OF max.  | 660gf(6.5N)  | 660gf(6.5N)  | 500gf(4.9N) | 500g(4.9N) | 500gf(4.9N) |
| 回复力 RF min.  | 150gf(1.47N) | 150gf(1.47N) | 50gf(0.49N) | 50g(0.49N) | 50gf(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°         |

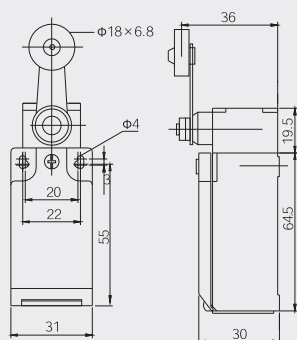
- 按钮型  
XZ-9301  
XZ-9301S



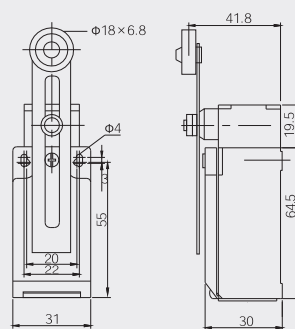
- 滚轮按钮型  
XZ-9302  
XZ-9302S



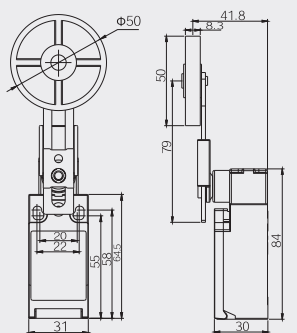
- 滚轮摆杆型  
XZ-9304



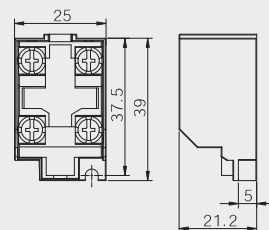
- 可调滚轮摆杆型  
XZ-9308  
XZ-9308S



- 可调大滚轮摆杆型  
XZ-9310  
XZ-9310S



- 内置开关  
XZ-9/N3  
XZ-9/N3S



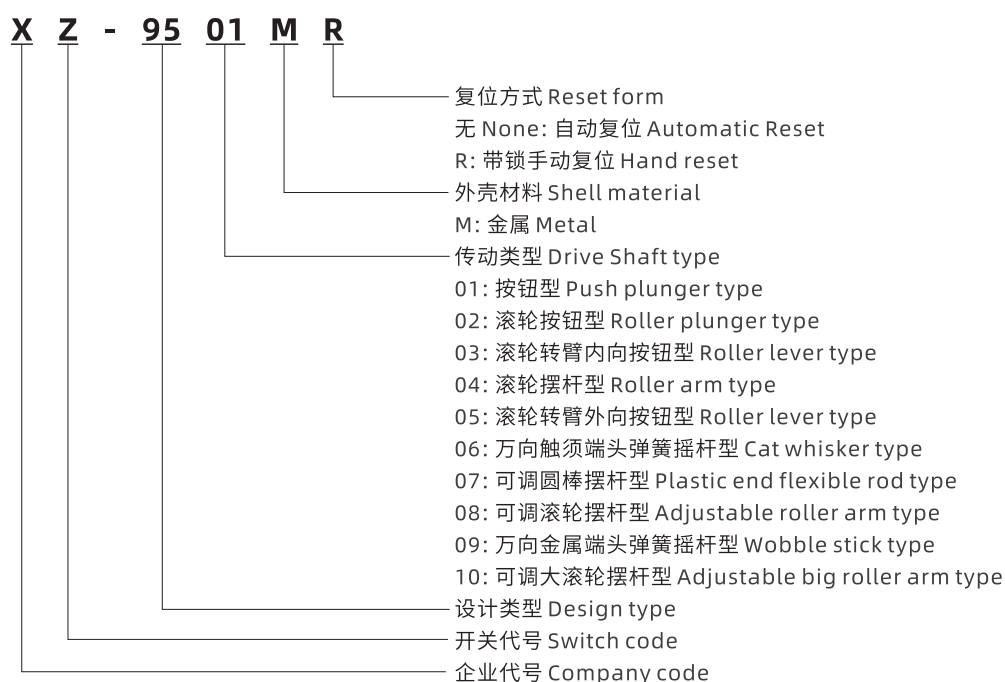


# XZ-95 行程开关 LIMIT SWITCH

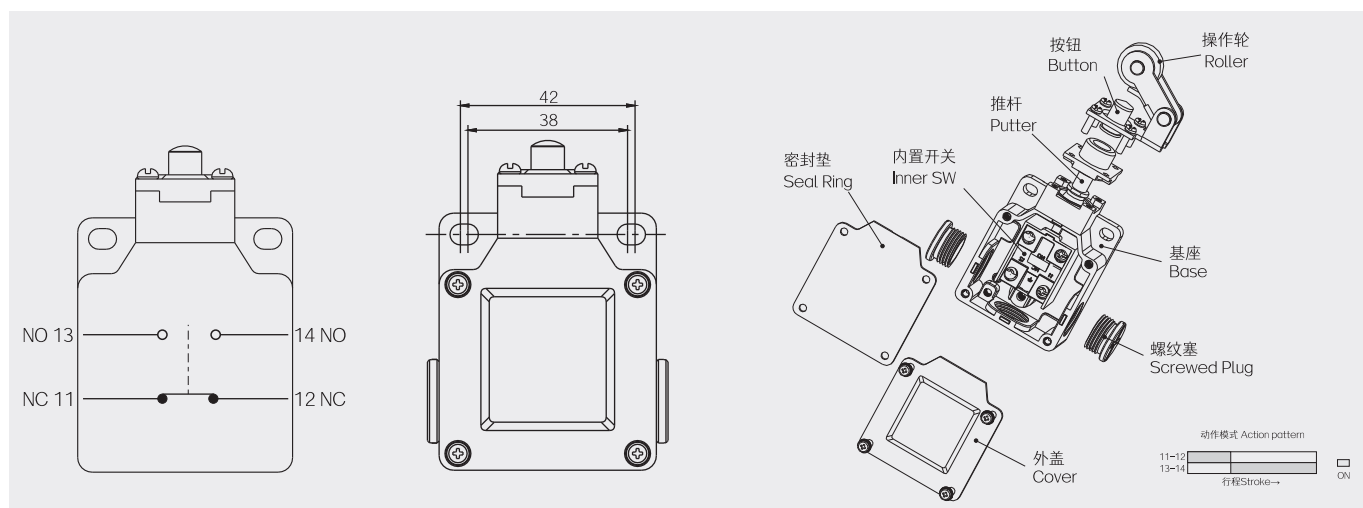
- 锌合金外壳，结构坚固，高机械强度；
- 具有防水、防油、等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong Zinc cast outer shell, strong structure and high mechanical strength;
- Preventing oil and water ;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical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



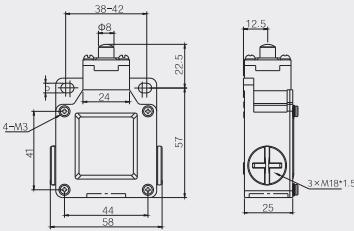
性能参数 Specification

| 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<br>10-55Hz 复振幅 Amplitude 1.5mm |
| 冲 击 Impact                 | 耐 久 Durable               | 1000m/s <sup>2</sup>                              |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>                               |
| 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%                                              |

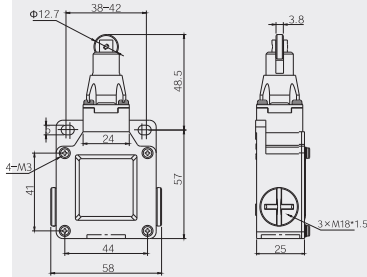
外形尺寸/动作特性 Dimensions / Operating Characteristics

| 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°        |

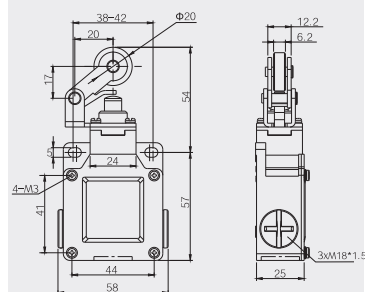
· 按钮型  
XZ-9501M



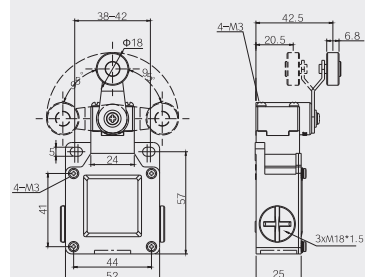
· 滚轮按钮型  
XZ-9502M



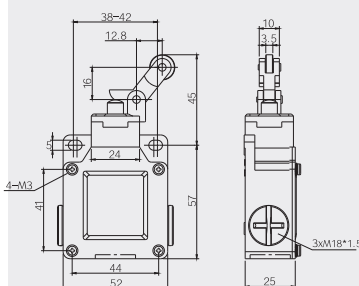
· 滚轮转臂按钮型  
XZ-9503M



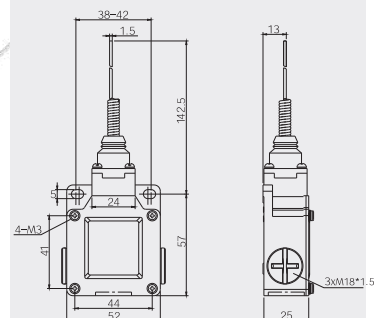
· 滚轮摆杆型  
XZ-9504M



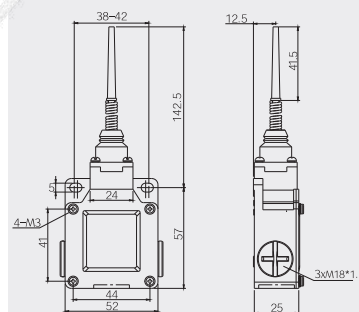
· 滚轮转臂按钮型  
XZ-9505M



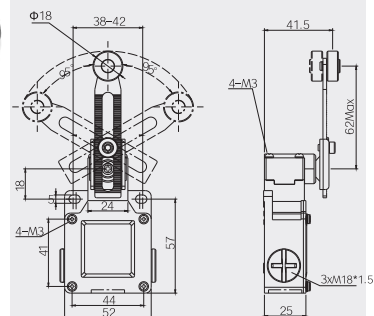
· 万向式塑料端头弹簧摇杆型  
XZ-9506M



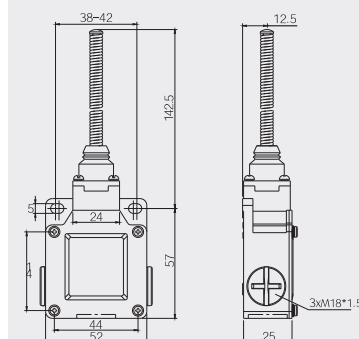
· 万向式塑料端头弹簧摇杆型  
XZ-9507M



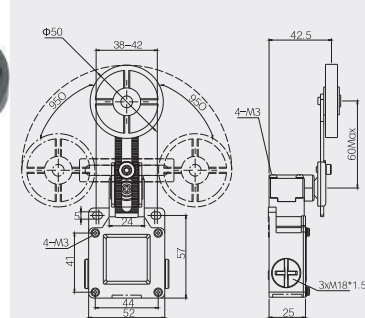
· 可调滚轮摆杆型  
XZ-9508M



· 万向式金属端头弹簧摇杆型  
XZ-9509M



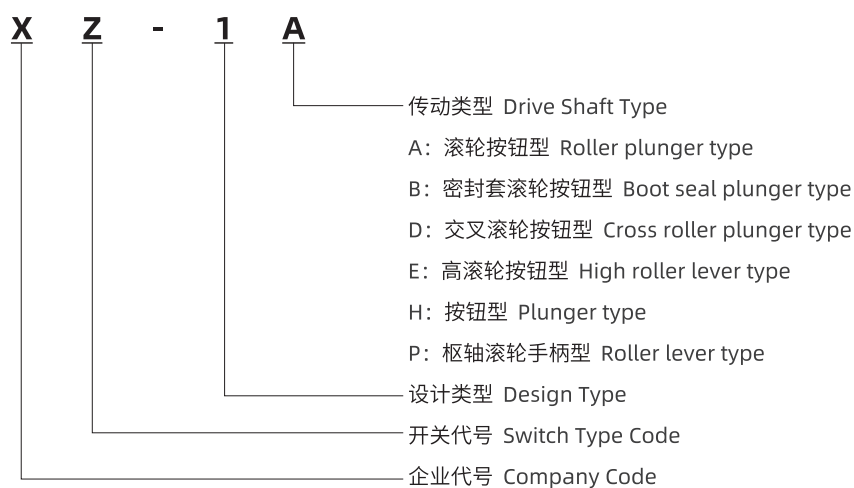
· 可调大滚轮摆杆型  
XZ-9510M



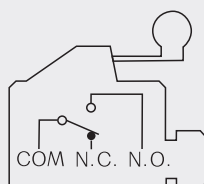
- 锌合金外壳，结构坚固，高机械强度；
- 具有防水、防油、等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong Zinc cast outer shell, strong structure and high mechanical strength;
- Preventing oil and water ;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used in Mechanical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



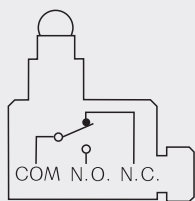
## □ 型号含义 Model & Meanings



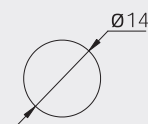
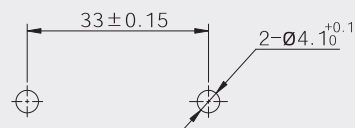
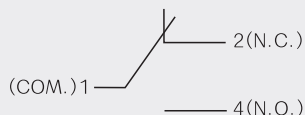
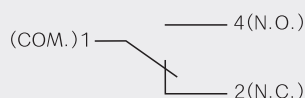
## □ 触点形式及安装孔尺寸 Contact Forms&Mounting Hole Dimensions



Roller lever type



Roller plunger type



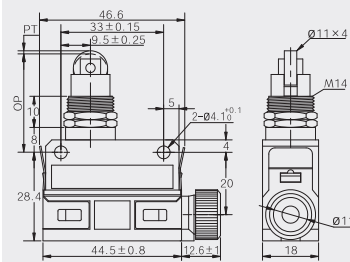
### 性能参数 Specification

| 项 目 Item                   | 参数值 Data                        |
|----------------------------|---------------------------------|
| 额定负荷 Rating load           | AC-15 3A/250VAC; DC-12 2A/48VDC |
| 操作频率 Operation frequency   | 60次/分 60times/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     | 1000VAC                         |
| 各端子间 Every terminal        | 1500VAC                         |
| 振 动 Vibration              | 10-55Hz 复振幅 Amplitude 1.5mm     |
| 冲 击 Impact                 | 1000m/s <sup>2</sup>            |
| 寿 命 Life                   | 100,000次以上 above                |
| 电 气 Electrical             | 1,000,000次以上 above              |
| 机 械 Mechanical             |                                 |
| 防护等级 Protection degree     | IP67                            |
| 使用温度 Operating temperature | -25~+65°C                       |
| 使用湿度 Operating humidity    | <85%                            |

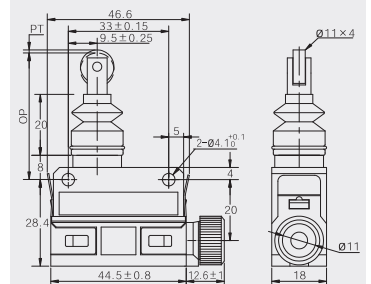
### 外形尺寸/动作特性 Dimensions/Operating Characteristics

| 型号 Models   | XZ-1A        | XZ-1B        | XZ-1D        | XZ-1E        | XZ-1H        | XZ-1P        |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 动作力 OF max. | 800gf(7.84N) | 800gf(7.84N) | 800gf(7.84N) | 800gf(7.84N) | 400gf(3.92N) | 400gf(3.92N) |
| 回复力 RF min. | 150gf(1.47N) | 150gf(1.47N) | 150gf(1.47N) | 150gf(1.47N) | 80gf(0.78N)  | 80gf(0.78N)  |
| 预行程 PT max. | 1.5mm        | 1.5mm        | 1.5mm        | 1.5mm        | 2mm          | 2mm          |
| 超行程 OT min. | 3mm          | 3mm          | 3mm          | 3mm          | 4mm          | 4mm          |
| 差行程 MD max. | 0.3mm        | 0.3mm        | 0.3mm        | 0.3mm        | 0.3mm        | 0.3mm        |
| 动作位置 OP     | 31.4±0.8mm   | 41.4±0.8mm   | 31.4±0.8mm   | 41.4±0.8mm   | 25.4±0.8mm   | 23±0.8mm     |

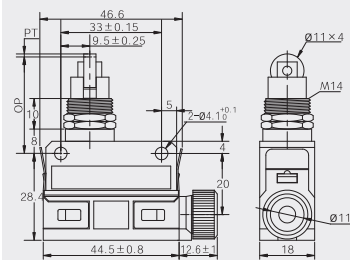
· 滚轮按钮型  
XZ-1A



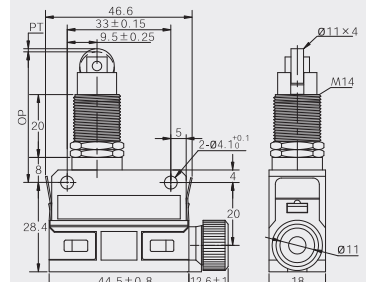
· 滚轮按钮型  
XZ-1B



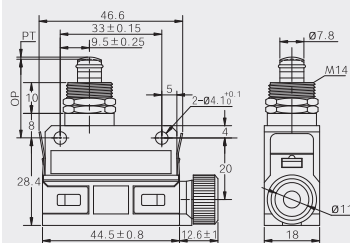
· 滚轮按钮型  
XZ-1D



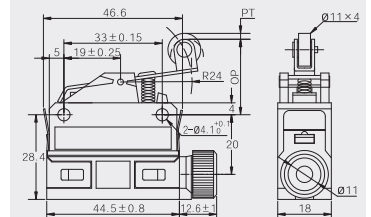
· 滚轮按钮型  
XZ-1E



· 按钮型  
XZ-1H



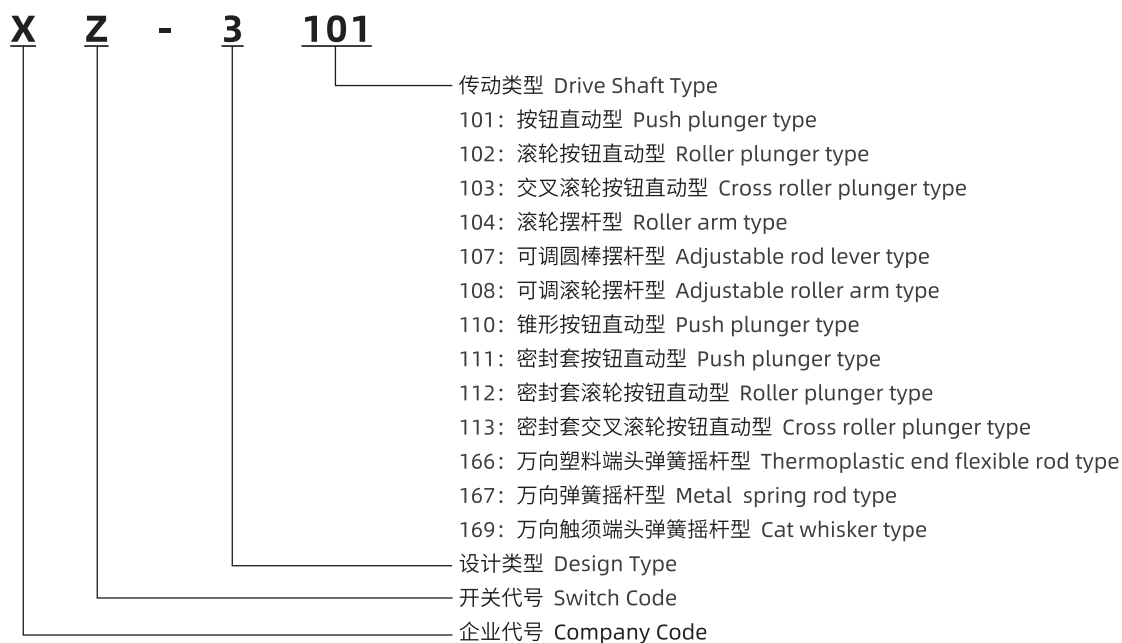
· 枢轴滚筒手柄型  
XZ-1P



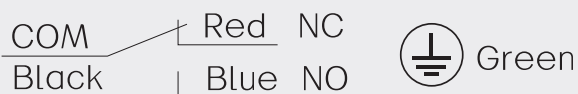
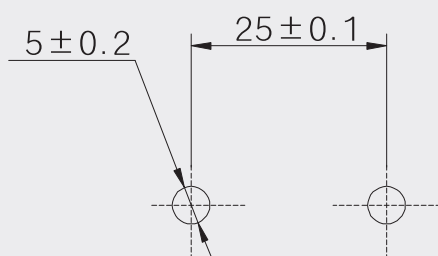
- 锌合金外壳，结构坚固，高机械强度；
- 具有防水、防油、防压等特点；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong Zinc cast outer shell, strong structure and high mechanical strength;
- Preventing oil, water and pressure;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely used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



## □ 型号含义 Model & Meanings



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



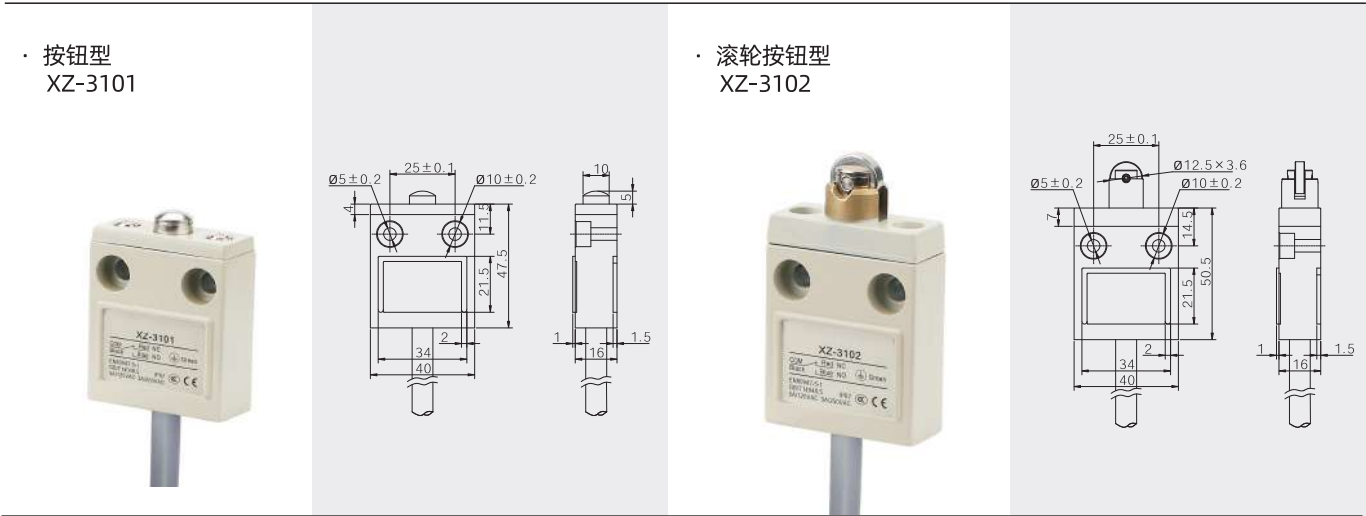


性能参数 Specification

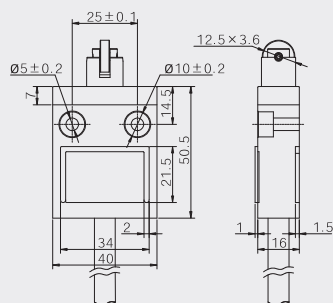
| 项 目 Item                   | 参数值 Data                   |                             |
|----------------------------|----------------------------|-----------------------------|
| 额定负荷 Rating load           | AC-15 3A/250VAC; 5A/125VAC |                             |
| 操作频率 Operation frequency   | 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation         | 300m/s <sup>2</sup>         |
| 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~+70℃                   |                             |
| 使用湿度 Operating humidity    | <85%                       |                             |

外形尺寸/动作特性 Dimensions/Operating Characteristics

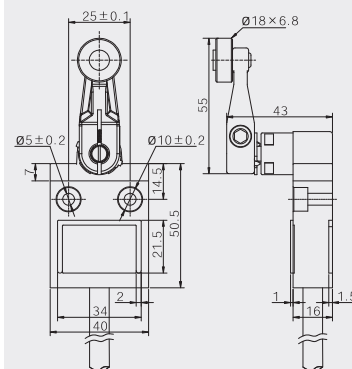
| 型号 Models   | XZ-3101         | XZ-3102         | XZ-3103         | XZ-3104       | XZ-3107       | XZ-3108       | XZ-3110         | XZ-3111         | XZ-3112         | XZ-3113         | XZ-3166       | XZ-3167       | XZ-3169       |
|-------------|-----------------|-----------------|-----------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|---------------|
| 动作力 OF max. | 1200gf (11.77N) | 1200gf (11.77N) | 1200gf (11.77N) | 580gf (5.69N) | 580gf (5.69N) | 580gf (5.69N) | 1200gf (11.77N) | 1800gf (17.65N) | 1800gf (17.65N) | 1800gf (17.65N) | 150gf (1.47N) | 150gf (1.47N) | 150gf (1.47N) |
| 回复力 RF min. | 450gf (4.41N)   | 450gf (4.41N)   | 450gf (4.41N)   | 150gf (1.47N) | 150gf (1.47N) | 150gf (1.47N) | 450gf (4.41N)   | 450gf (4.41N)   | 450gf (4.41N)   | 450gf (4.41N)   | --            | --            | --            |
| 预行程 PT max. | 1.8mm           | 1.8mm           | 1.8mm           | 25°           | 25°           | 25°           | 1.8mm           | 1.8mm           | 1.8mm           | 1.8mm           | 15°           | 15°           | 15°           |
| 超行程 OT min. | 3mm             | 3mm             | 3mm             | 40°           | 40°           | 40°           | 3mm             | 3mm             | 3mm             | 3mm             | --            | --            | -             |
| 差行程 MD max. | 0.2mm           | 0.2mm           | 0.2mm           | 3°            | 3°            | 3°            | 0.2mm           | 0.2mm           | 0.2mm           | 0.2mm           | --            | --            | -             |
| 动作位置 OP     | 15.7±1mm        | 28.5±1mm        | 28.5±1mm        | --            | --            | --            | 28.5±1mm        | 24.9±1mm        | 34.3±1mm        | 34.3±1mm        | --            | --            | --            |
| 总行程 TT      | --              | --              | --              | --            | --            | --            | --              | --              | --              | --              | --            | --            | --            |



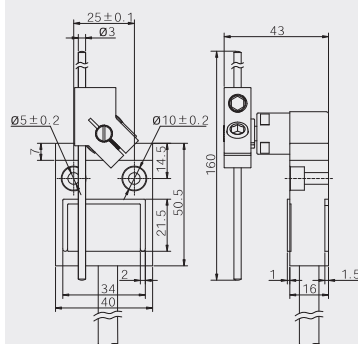
· 交叉滚轮按钮型  
XZ-3103



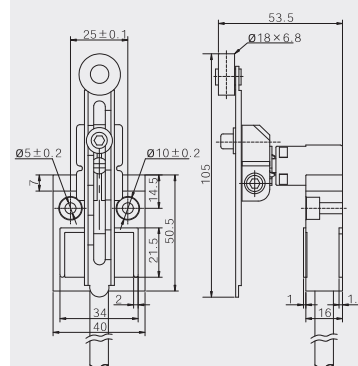
· 滚轮摆杆型  
XZ-3104



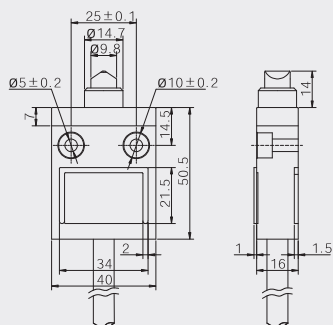
· 可调圆棒摆杆型  
XZ-3107



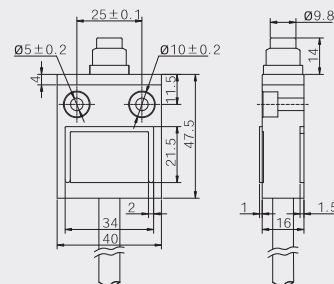
· 可调滚轮摆杆型  
XZ-3108



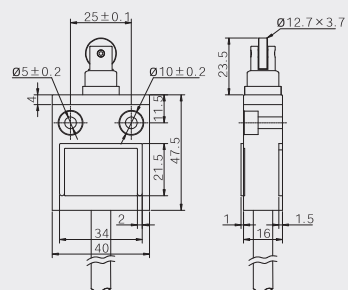
· 按钮型  
XZ-3110



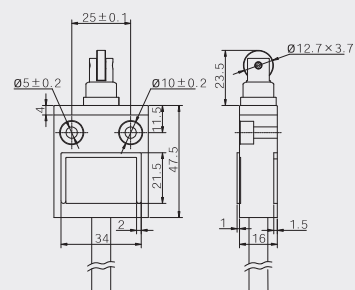
· 按钮型  
XZ-3111



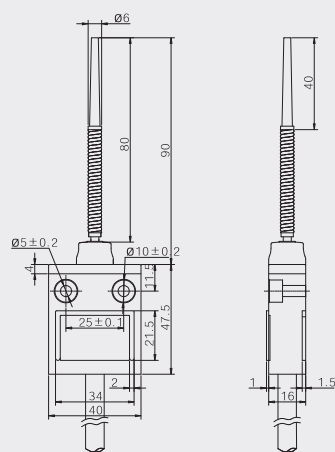
· 滚轮按钮型  
XZ-3112



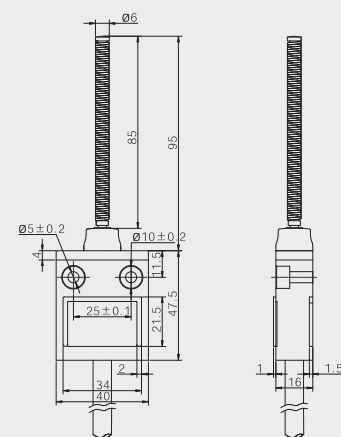
· 交叉滚轮按钮型  
XZ-3113



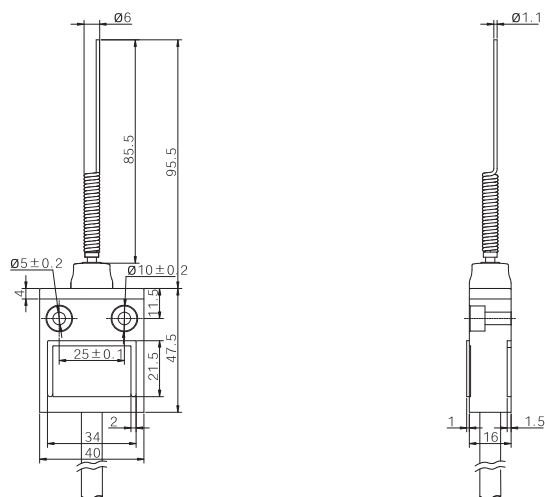
· 万向式塑料端头弹簧摇杆型  
XZ-3166



· 万向式弹簧摇杆型  
XZ-3167



· 万向式触须端头弹簧摇杆型  
XZ-3169

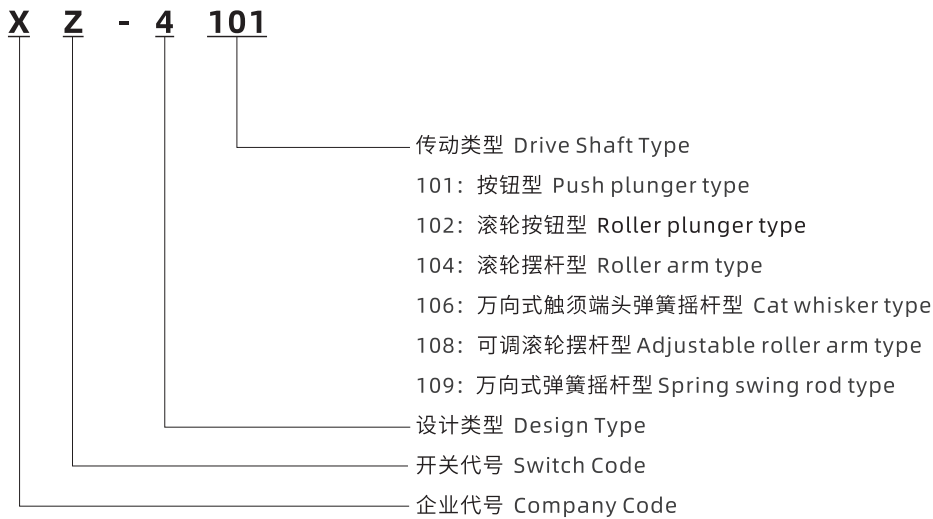


# XZ-4 行程开关 LIMIT SWITCH

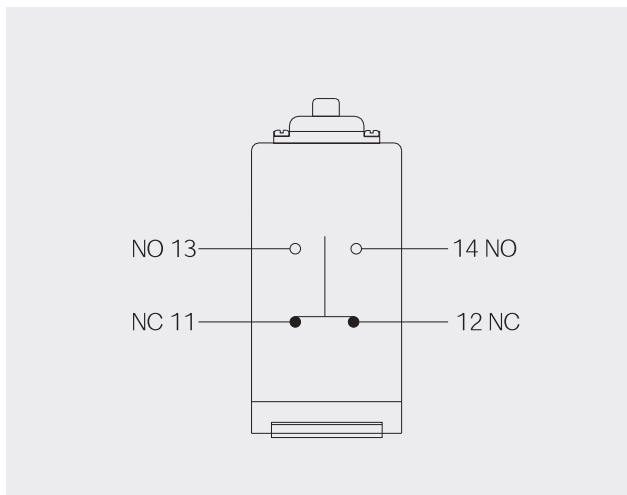
- 外壳由强化塑胶与锌合金组成，结构坚固，容易配线；
- 体积小，可防水、防油；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong structure, made of zinc metal alloy and plastics, easy to contact line;
- Small size, water and oil resistant;
- Double way switch, double spring inner switch;
- Variety of levers;
- Widely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



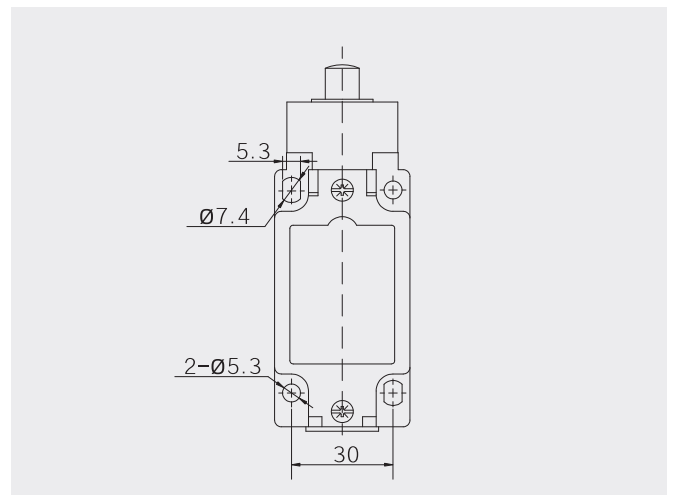
## □ 型号含义 Model & Meanings



## □ 触点形式 Contact Form



## □ 安装孔尺寸 Mounting Holes



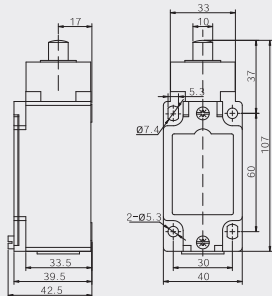
性能参数 Specification

| 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation         | 300m/s <sup>2</sup>         |
| 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~+70℃                   |                             |
| 使用湿度 Operating humidity    | <85%                       |                             |

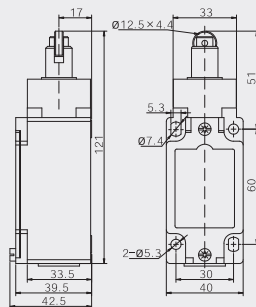
外形尺寸/动作特性 Dimensions/Operating Characteristics

| 型号 Models   | XZ-4101      | XZ-4102      | XZ-4104      | XZ-4106      | XZ-4108      | XZ-4109      |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 动作力 OF max. | 750gf(7.35N) | 750gf(7.35N) | 750gf(7.35N) | 150gf(1.47N) | 750gf(7.35N) | 150gf(1.47N) |
| 回复力 RF min. | 100gf(0.98N) | 100gf(0.98N) | 100gf(0.98N) | 50gf(0.49N)  | 100gf(0.98N) | --           |
| 预行程 PT max. | 2mm          | 2mm          | 20°          | 22.5°        | 20°          | 22.5°        |
| 超行程 OT min. | 3mm          | 3mm          | 50°          | 20mm         | 50°          | 20mm         |
| 差行程 MD max. | 1.2mm        | 1.2mm        | 12°          | 10°          | 12°          | 100          |
| 总行程 TT      | 5.8mm        | 5.8mm        | 90°          | 50mm         | 90°          | 50mm         |

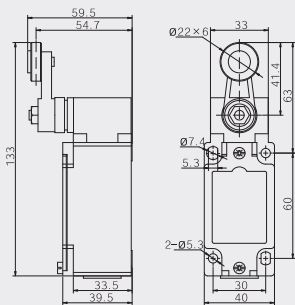
· 按钮型  
XZ-4101



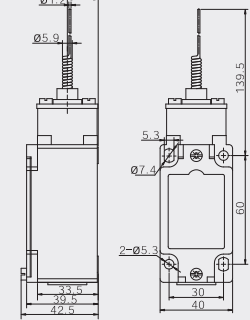
· 滚轮按钮型  
XZ-4102



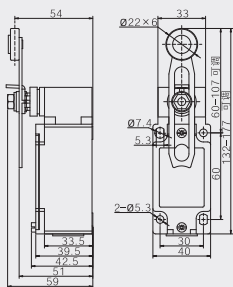
· 滚轮摆杆型  
XZ-4104



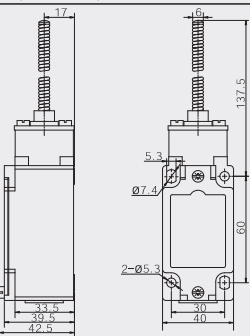
· 万向式触须端头弹簧摆杆型  
XZ-4106



· 可调滚轮摆杆型  
XZ-4108



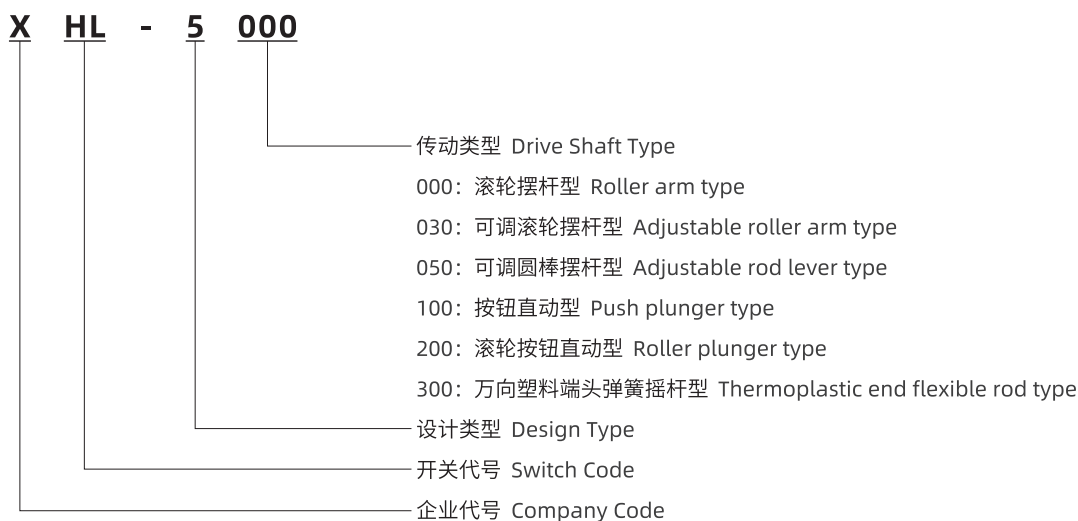
· 万向式弹簧摆杆型  
XZ-4109



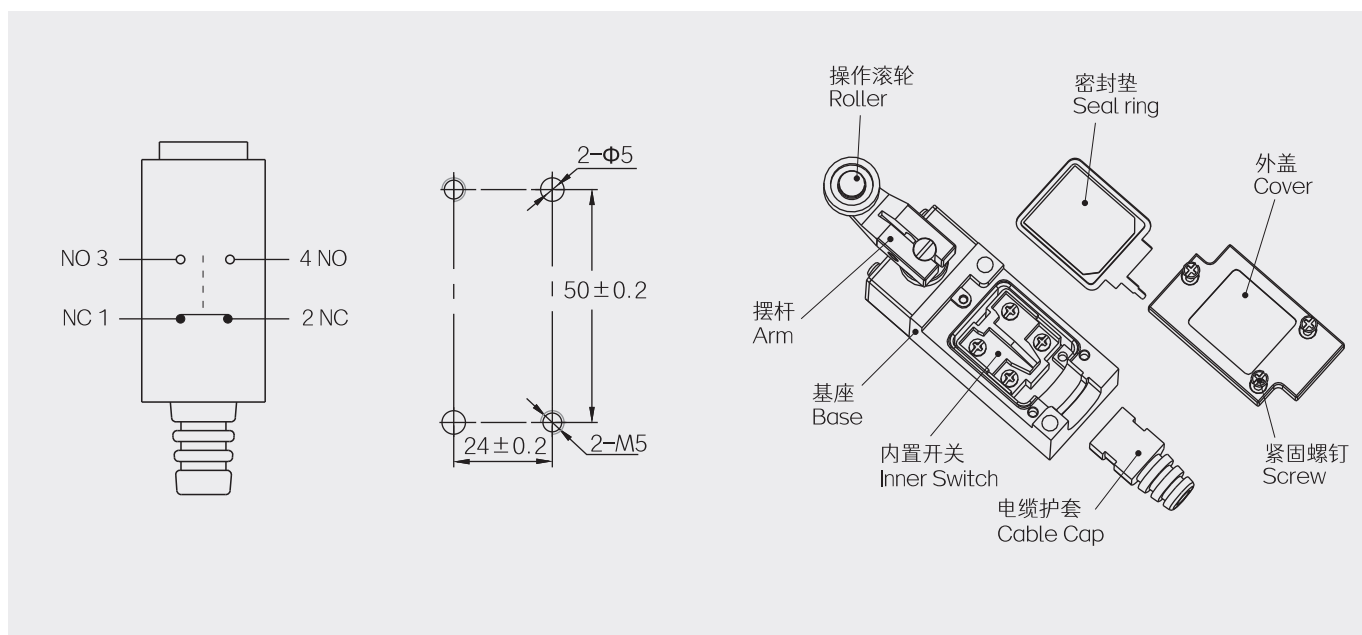
- 外壳由强化塑胶与锌合金组成，结构坚固，容易配线；
- 体积小，可防水、防油；
- 采用双回路形式，内置双簧片微动开关；
- 配备各种形式的驱动连杆，选型方便；
- 广泛应用于各种机械设备、自动化设备、仪器仪表等领域。
- Strong structure, made of zinc metal alloy and plastics, easy to contact line;
- Small size, oil and water resistant ;
- Double way switch, double spring inner switch;
- Variety of levers;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



## □ 型号含义 Model & Meanings



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



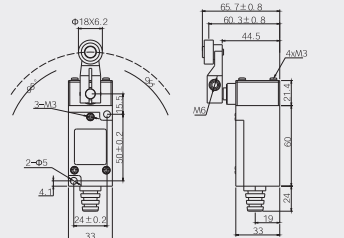
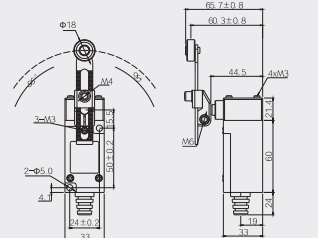
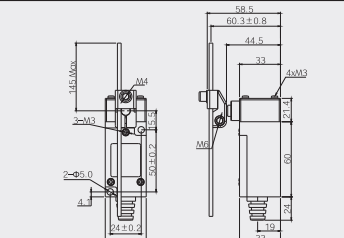
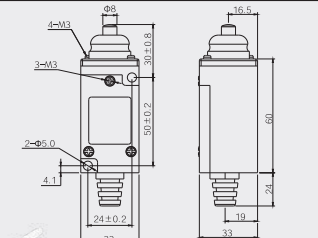
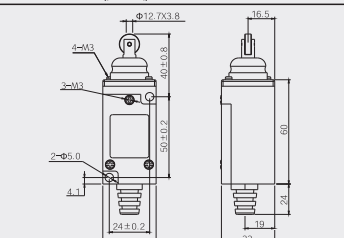
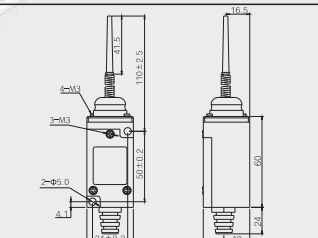


## □ 性能参数 Specification

| 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 <sup>2</sup>        |
|                            | 误 动 作 Misoperation        | 300m/s <sup>2</sup>         |
| 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%                        |

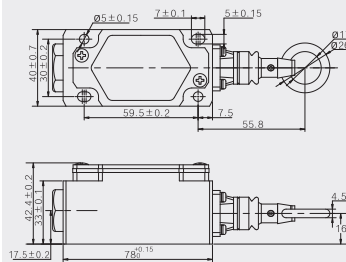
## □外形尺寸/动作特性 Dimensions / Operating Characteristics

| 型号 Models   | 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        |

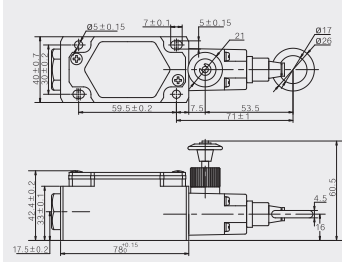
|                                                                                                                                                                                                       |                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>· 滚轮摆杆型<br/>XHL-5000</p>     | <p>· 可调滚轮摆杆型<br/>XHL-5030</p>    |
| <p>· 可调圆棒摆杆型<br/>XHL-5050</p>   | <p>· 按钮型<br/>XHL-5100</p>        |
| <p>· 滚轮按钮型<br/>XHL-5200</p>     | <p>· 万向式弹簧摇杆型<br/>XHL-5300</p>   |

4

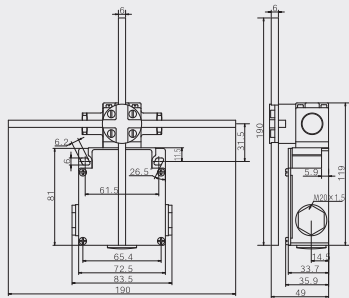
- 拉绳开关  
XZ-6170



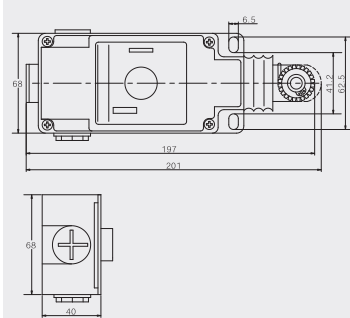
- 拉绳开关  
XZ-6170R



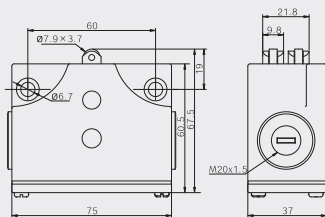
- 大十字式行程开关  
XZ-96MR



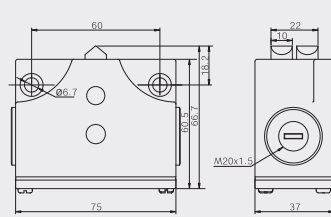
- 拉绳开关  
XY2-13250



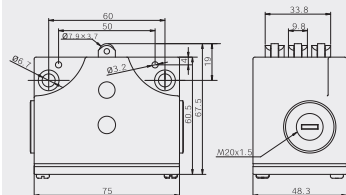
- 组合式行程开关  
XLXZ1-02ZN



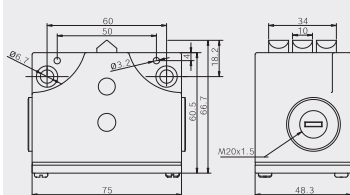
- 组合式行程开关  
XLXZ1-02ZW



- 组合式行程开关  
XLXZ1-03ZN



- 组合式行程开关  
XLXZ1-03ZW



XES-5 电磁式复位行程开关  
ELECTROMAGNETIC LIMIT SWITCH

- 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;

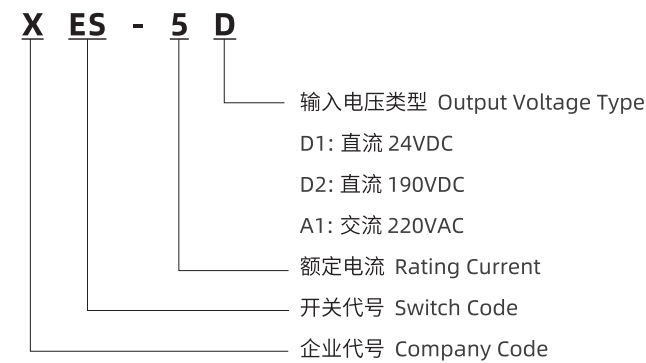
• Preventing oil and water;

• Double way switch,double spring inner switch;

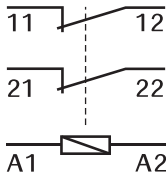
• Mainly used in elevator protection and control.



□ 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. | 800gf(8N)   |
| 复位力 | RF min. | 1000gf(10N) |
| 预行程 | PT max. | 3mm         |
| 超行程 | OT min. | --          |
| 差行程 | MD max. | 0           |
| 总行程 | TT      | 3mm         |

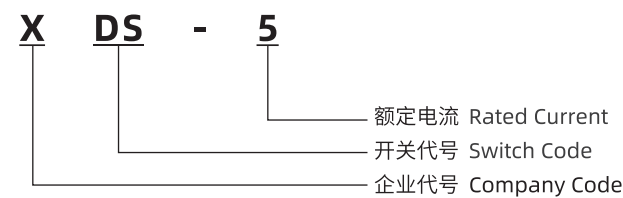
# XDS-5 电梯门开关

## ELEVATOR DOOR SWITCH

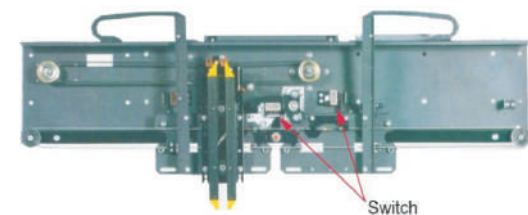
- 分体式独立驱动器；
- 接触式电信号控制开关；
- 银合金触点，可靠性高；
- 采用进口簧片生产，寿命长，产品结构小巧，便于安装；
- 广泛用于电梯门机控电路。
- Separate actuator;
- Such contact type and electrical signal control switch;
- Silver contact style with high reliability;
- Foreign-made reed make life much higher, compact structure make mounting much easier;
- Comprehensively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



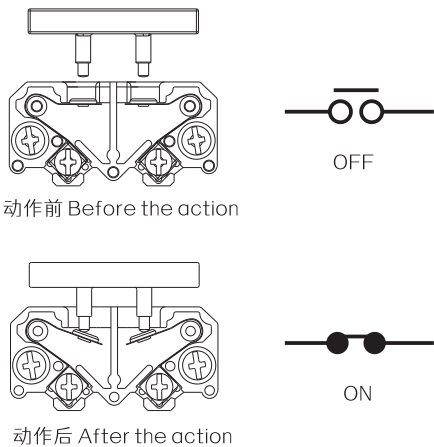
### □ 型号含义 Model & Meanings



### □ 安装示例 Mounting



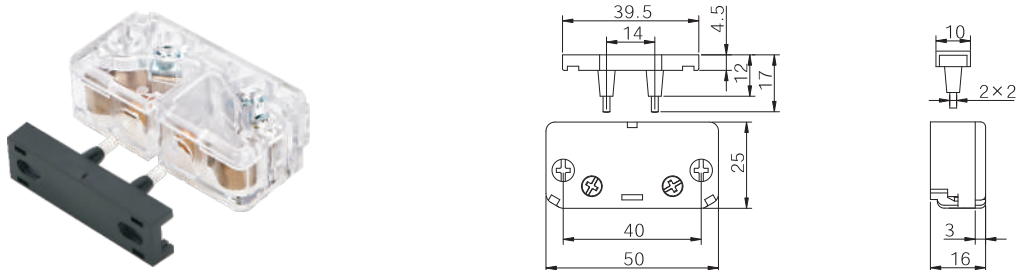
### □ 触点形式 Contact Form



### □ 性能参数 Specification

| 项 目 Item                   |                | 参数值 Data                 |
|----------------------------|----------------|--------------------------|
| 执行标准 Item                  |                | DIN EN 81, IEC 60947-5-1 |
| 使用类别 Utilisation category  |                | AC-15                    |
| 额定负荷 Rating load           |                | 5A/230VAC                |
| 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     |                | IP20                     |

### □ 外形尺寸 Dimensions

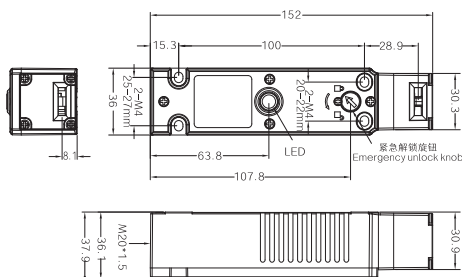




## □ XEL-S

- 2组镀金触点
- 6种触点组合
- 锁定力1300N
- 指示灯+紧急解锁
- 适配11种操作钥匙
- 紧凑型设计节省安装空间
- 2 sets of gold-plated contacts
- 6 contact combinations
- Locking force 1300N
- Indicator + Emergency unlock
- ADAPTS 11 operating keys
- The compact design saves installation space

## □ 外形尺寸 Dimensions



## ③可选头部材质 Optional head material

|   |          |
|---|----------|
| M | 金属 Metal |
| P | 树脂 Resin |

## ①可选锁定方式 Optional lock mode

|   |                                                                  |
|---|------------------------------------------------------------------|
| E | DC24V电磁锁定 /机械释放<br>Electromagnetic lock / Mechanical release     |
| M | 机械锁定 / DC24V电磁释放<br>Mechanical locking / Electromagnetic release |

## ②可选触点类型 Optional contact type

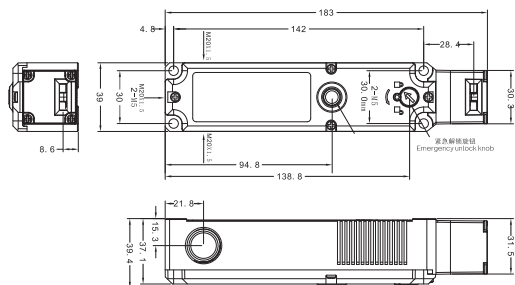
|   | 门监控触点 Door monitoring contact<br>缓动触点 Slowdown the contact | 锁定监控触点 Lock the monitoring contact<br>缓动触点 Slowdown the contact |
|---|------------------------------------------------------------|-----------------------------------------------------------------|
| A | 1NC                                                        | 1NC                                                             |
| B | \                                                          | 2NC                                                             |
| C | 2NC                                                        | \                                                               |
| D | 1NC/1NO                                                    | \                                                               |
| E | 1NO                                                        | 1NC                                                             |
| F | \                                                          | 1NC/1NO                                                         |

## ④可选触点类型 Optional contact type

|                                                                                     |                                                                   |                                                                                       |                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|  | X-K1<br>T型操作钥匙<br>T-type operating key                            |  | X-K1s<br>T型操作钥匙带缓冲垫<br>T-operated key with cushioning                |
|  | X-K2<br>L型操作钥匙<br>L-type operating key                            |  | X-K2s<br>L型操作钥匙带缓冲垫<br>L-operated key with cushioning                |
|  | X-K3<br>长T型操作钥匙<br>Long T type operating key                      |  | X-K3s<br>长T型操作钥匙带缓冲垫<br>Long T operating key with cushioning pad     |
|  | X-K4<br>长L型操作钥匙<br>Long L-type operating key                      |  | X-K4s<br>长L型操作钥匙带缓冲垫<br>Long L-type operating key with cushioning    |
|  | X-K5<br>水平可调整操作钥匙<br>Level adjustable operating key               |  | X-K6<br>水平/垂直可调整操作钥匙<br>Horizontal/vertical adjustable operating key |
|  | X-K8<br>半球型多功能操作钥匙<br>Half ball type multi-function operation key |                                                                                       |                                                                      |



## □ 外形尺寸 Dimensions



## ① 可选锁定方式 Optional lock mode

|   |                                                                  |
|---|------------------------------------------------------------------|
| E | DC24V电磁锁定 / 机械释放<br>Electromagnetic lock / Mechanical release    |
| M | 机械锁定 / DC24V电磁释放<br>Mechanical locking / Electromagnetic release |

## ② 可选触点类型 Optional contact type

|    | 门监控触点 Door monitoring contact<br>缓动触点 Slow down the contact | 锁定监控触点 Lock the monitoring contact<br>缓动触点 Slow down the contact |
|----|-------------------------------------------------------------|------------------------------------------------------------------|
| VA | 1NC/1NO                                                     | 1NC/1NO                                                          |
| VB | 1NC/1NO                                                     | 2NC                                                              |
| VC | 2NC                                                         | 1NC/1NO                                                          |
| VD | 2NC                                                         | 2NC                                                              |
| VE | 1NC/2NO                                                     | 1NC                                                              |
| VF | 3NC                                                         | 1NC                                                              |
| VG | 2NC/1NO                                                     | 1NC                                                              |
| VH | 1NC                                                         | 3NC                                                              |
| VI | 1NC                                                         | 1NC/2NO                                                          |
| VJ | 1NC                                                         | 2NC/1NO                                                          |
| VW | 1NO                                                         | 3NC                                                              |
| VX | 1NC                                                         | 2NC/1NO                                                          |
| VY | 2NC                                                         | 2NO                                                              |
| VZ | 2NO                                                         | 2NC                                                              |

## □ XEL-K

- 4组镀金触点
- 14种触点组合
- 锁定力1300N
- 指示灯+紧急解锁
- 可选配背部解锁功能
- 适配11种操作钥匙
- 4 sets of gold-plated contacts
- 14 contact combinations
- Locking force 1300N
- Indicator + Emergency unlock
- Optional back unlock function
- ADAPTS 11 operating keys

## ③ 可选头部材质 Optional head material

|   |          |
|---|----------|
| M | 金属 Metal |
| P | 树脂 Resin |

## ④ 可选背部解锁 Optional back unlock

|                   |        |
|-------------------|--------|
| 无指定 Not specified | 无 \    |
| L                 | 有 Have |

## ⑤ 可选触点类型 Optional contact type

|  |                                                                   |  |                                                                      |
|--|-------------------------------------------------------------------|--|----------------------------------------------------------------------|
|  | X-K1<br>T型操作钥匙<br>T-type operating key                            |  | X-K1s<br>T型操作钥匙带缓冲垫<br>T-operated key with cushioning                |
|  | X-K2<br>L型操作钥匙<br>L-type operating key                            |  | X-K2s<br>L型操作钥匙带缓冲垫<br>L-operated key with cushioning                |
|  | X-K3<br>长T型操作钥匙<br>Long T type operating key                      |  | X-K3s<br>长T型操作钥匙带缓冲垫<br>Long T operating key with cushioning pad     |
|  | X-K4<br>长L型操作钥匙<br>Long L-type operating key                      |  | X-K4s<br>长L型操作钥匙带缓冲垫<br>Long L-type operating key with cushion       |
|  | X-K5<br>水平可调整操作钥匙<br>Level adjustable operating key               |  | X-K6<br>水平/垂直可调整操作钥匙<br>Horizontal/vertical adjustable operating key |
|  | X-K8<br>半球型多功能操作钥匙<br>Half ball type multi-function operation key |  |                                                                      |

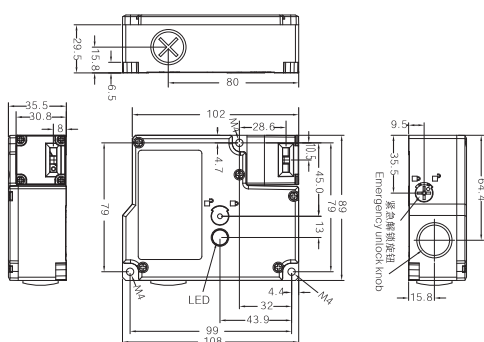




## □ XEL-B

- 6组镀金触点
- 4种触点组合
- 锁定力1300N
- DC24V/AC110V
- 指示灯+紧急解锁
- 选配正面/侧面紧急解锁
- 适配11种操作钥匙
- 6 sets of gold-plated contacts
- 4 contact combinations
- Locking force 1300N
- DC24V/AC110V
- Indicator + Emergency unlock
- Optional front/side emergency unlock
- ADAPTS 11 operating keys

## □ 外形尺寸 Dimensions



## ① 可选锁定方式 Optional lock mode

|   |                                                               |
|---|---------------------------------------------------------------|
| E | DC24V电磁锁定/机械释放<br>Electromagnetic lock/Mechanical release     |
| M | 机械锁定/DC24V电磁释放<br>Mechanical locking/Electromagnetic release  |
| X | AC110V电磁锁定/机械释放<br>Electromagnetic locking/Mechanical release |
| Y | 机械锁定/AC110V电磁释放<br>Mechanical locking/Electromagnetic release |

## ② 可选触点类型 Optional contact type

|   | 门监控触点 Door monitoring contact<br>缓动触点 Slow down the contact | 锁定监控触点 Lock the monitoring contact<br>缓动触点 Slow down the contact |
|---|-------------------------------------------------------------|------------------------------------------------------------------|
| E | 2NC/1NO                                                     | 2NC/1NO                                                          |
| M | 3NC                                                         | 2NC/1NO                                                          |
| X | 2NC/1NO                                                     | 3NC                                                              |
| Y | 3NC                                                         | 3NC                                                              |

## ③ 可选头部材质 Optional head material

|   |          |
|---|----------|
| M | 金属 Metal |
| P | 树脂 Resin |

## ④ 可选紧急解锁旋钮位置

Optional emergency release knob position

|   |          |
|---|----------|
| F | 正面 Front |
| S | 侧面 Flank |

## ⑤ 可选出线口类型

Line hole type can be selected

|   |        |
|---|--------|
| 1 | M20    |
| 2 | PG13.5 |

## ⑥ 可选触点类型 Optional contact type

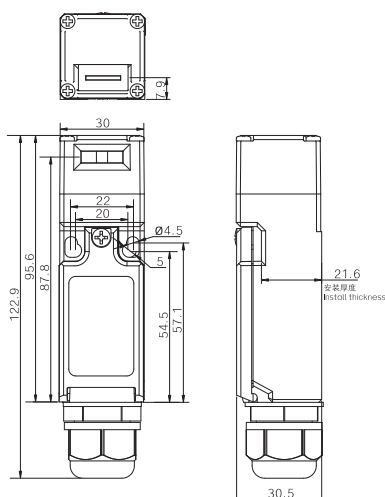
|  |                                                                   |  |                                                                      |
|--|-------------------------------------------------------------------|--|----------------------------------------------------------------------|
|  | X-K1<br>T型操作钥匙<br>T-type operating key                            |  | X-K1s<br>T型操作钥匙带缓冲垫<br>T-operated key with cushioning                |
|  | X-K2<br>L型操作钥匙<br>L-type operating key                            |  | X-K2s<br>L型操作钥匙带缓冲垫<br>L-operated key with cushioning                |
|  | X-K3<br>长T型操作钥匙<br>Long T type operating key                      |  | X-K3s<br>长T型操作钥匙带缓冲垫<br>Long T operating key with cushioning pad     |
|  | X-K4<br>长L型操作钥匙<br>Long L-type operating key                      |  | X-K4s<br>长L型操作钥匙带缓冲垫<br>Long L-type operating key with cushion       |
|  | X-K5<br>水平可调整操作钥匙<br>Level adjustable operating key               |  | X-K6<br>水平/垂直可调整操作钥匙<br>Horizontal/vertical adjustable operating key |
|  | X-K8<br>半球型多功能操作钥匙<br>Half ball type multi-function operation key |  |                                                                      |



## □ XD-MP5

- 全系列镀金触点，适用于标准负载和微小负载；
- 最多3组触点结构，可选配2NC+1NO或者3NC；
- Nc触点为直接断开动作触点；
- 可调整11种方式插入操作钥匙，满足不同安装位置；
- 操作钥匙和电磁锁安全门开关通用；
- 原厂附带PG13.5电缆接头。
- Full range of gold-plated contacts for standard and small loads;
- Up to 3 groups of contact structure, optional 2NC+1NO or 3NC;
- The NC contact is the direct disconnect action contact;
- You can insert the operation key in eleven different ways to meet different installation positions;
- Operating key and electromagnetic lock safety door switch universal;
- Original PG13.5 cable connector.

## □ 外形尺寸 Dimensions



## ②可选触点类型 Optional contact type

|                                                                                     |                                                                          |                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|   | <b>X-K1</b><br>T型操作钥匙<br>T-type operating key                            |   | <b>X-K1s</b><br>T型操作钥匙带缓冲垫<br>T-operated key with cushioning                |
|  | <b>X-K2</b><br>L型操作钥匙<br>L-type operating key                            |  | <b>X-K2s</b><br>L型操作钥匙带缓冲垫<br>L-operated key with cushioning                |
|  | <b>X-K3</b><br>长T型操作钥匙<br>Long T type operating key                      |  | <b>X-K3s</b><br>长T型操作钥匙带缓冲垫<br>Long T operating key with cushioning pad     |
|  | <b>X-K4</b><br>长L型操作钥匙<br>Long L-type operating key                      |  | <b>X-K4s</b><br>长L型操作钥匙带缓冲垫<br>Long L-type operating key with cushion       |
|  | <b>X-K5</b><br>水平可调整操作钥匙<br>Level adjustable operating key               |  | <b>X-K6</b><br>水平/垂直可调整操作钥匙<br>Horizontal/vertical adjustable operating key |
|  | <b>X-K8</b><br>半球型多功能操作钥匙<br>Half ball type multi-function operation key |                                                                                       |                                                                             |

## ①可选触点类型 Optional contact type

|    |         |
|----|---------|
| \  | 1NC/1NO |
| C2 | 2NC     |
| C3 | 2NC/1NO |
| C4 | 3NC     |