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CHNANMA®

地址：浙江省温州柳市镇新光工业区
Add: Xinguang Industrial Zone, Liushi Town, Wenzhou, Zhejiang
电话 Tel：0577-61720798 / 4000-730-168
Wechat/Whatsapp：+86 133 5335 6138
邮箱 Email：sales@chnanma.com
网址 Web：www.chnanma.com / www.jxnma.com

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CHNANMA® 南马电气



INDUSTRIALIAUTOMATION

工控自动化选型手册

行程开关 Travel switch | 限位开关 Limit switch
脚踏开关 Foot switch | 微动开关 Microswitch
拉绳开关 Rope switch | 安全门开关 Safety door switch
十字限位开关 Cross limit switch | 起升限位器 Lifting height stopper

南马电气有限公司
JIANGXI NANMA ELECTRICAL CO.LTD
YUEQING NANMA ELECTRICAL CO.LTD

PROFILE COMPANY

企业简介

南马电气有限公司是一家专业生产和开发行程开关、脚踏开关、微动开关、限位器等系列产品为主的企业。

本公司自 2003 年创办以来，本着“以品质求生存，以科技求发展”的纲领，以“创新、进取、专业、认真”的经营理念，不断创新、努力开拓。

现公司已拥有完整先进的生产、检测设备和雄厚的技术力量，始终以市场为导向，以质量第一为宗旨，以精益求精为方针，高效诚信的为广大用户提供更多更好的产品和更优质的服务是我们不变的追求！

NANMA Electric Co., Ltd. is a professional manufacturer and developer of travel switch, foot switch, micro switch, limit switch and other series of products based enterprises.

Our factory was founded in 2003, the spirit of "survival by quality, development by science and technology" program, to "createNew, enterprising, professional, serious "business philosophy, continuous innovation, efforts to develop.

Now the factory has a complete advanced production, testing equipment and strong technical force, always market-oriented,Quality first for the purpose, to excellence for the policy, efficient and honest for the majority of users to provide more and better products and Better service is our constant pursuit !

质量
QUALITY

服务
SERVICE

先进
ADVANCED

企业方针
CORPORATE POLICY

公司严格按照国家标准和国际标准组织生产，从原材料购进到成品出库实行全过程控制。制定“以客户需求为中心，以生产管理为基础，持续改进质量体系，提高用户满意产品”的质量方针。

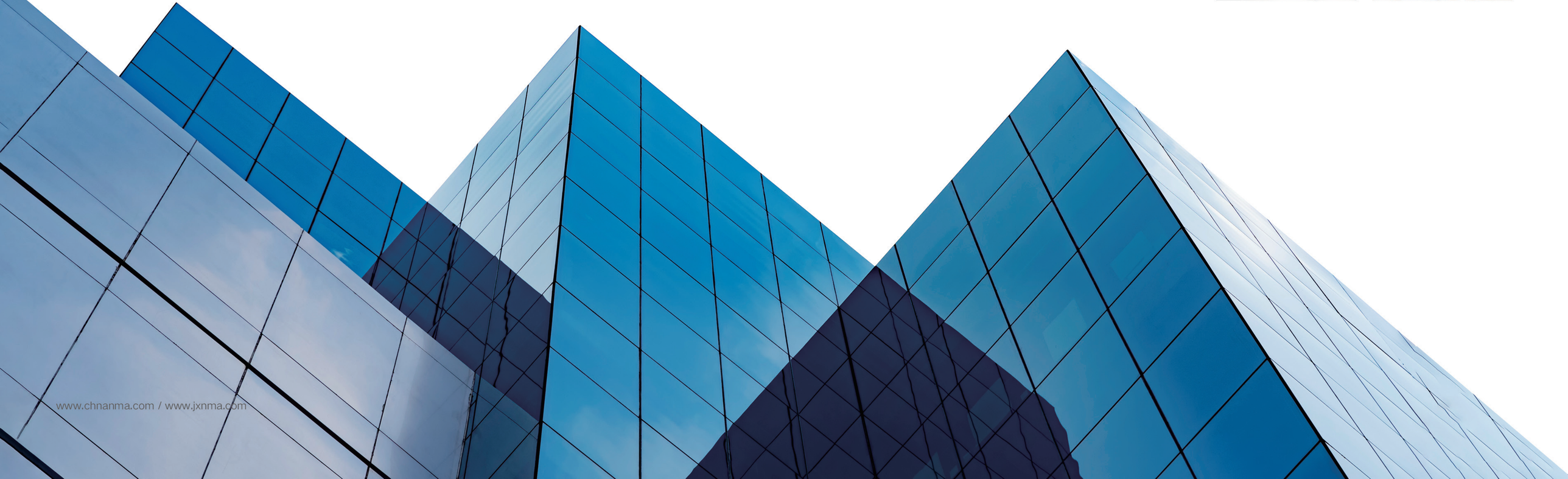
多年来南马电气深受广大用户的肯定，博得业界的大力支持与信赖，但我们并不以此为满足，今后以更高的理想，不断的创新，继续追求，贡献社会。

The company organizes production in strict accordance with national and international standards, and implements the whole process control from the purchase of raw materials to the delivery of finished products. Formulate the quality policy of "focusing on customer needs and based on production management, continuously improve the quality system and improve user satisfaction with products".

Over the years Nanma Electric by the majority of users of the affirmation, won the industry's strong support and trust, but we are not satisfied with this, the future with higher ideals, continuous innovation, continue to pursue, contribute to society.







CHNANMA® 南马电气

公司获得 ISO9001:2008 质量管理体系认证
ISO9001:2008 quality management system certificate



公司获得 获得中国 CCC 产品质量认证
China CCC product quality certificate



公司获得 CTS 出具的 CE 认证（LVD 部分）
CE certificate（LVD）by CTS



公司获得 TUV 出具的 CE 认证（LVD 部分）
CE certificate（LVD）by TUV Rheinland



权威的认证及荣誉资质

CERTIFICATION

南马电气

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CHINANMA®



NM-8 立式限位开关 Vertical Limit Switch

特点 Features

◎ 双回路型限动开关
◎ 结构坚固，由锌合金及强化塑胶组成
◎ 体积小，可防水、防油
◎ 内藏触点座有双簧片机构，机械寿命更长
◎ 具有较大的过行程
◎ 使配线更加简易的导管设计
◎ 引动器种类多，方便使用

◎Double circuit type of limit switch
◎High mechanical strength, consists of intensive plastic and aluminum cast
◎Small size, water-proof and oil-proof construction
◎Built-in contact box has double-spring and long mechanical life
◎Smooth operation with larger over travel distance
◎Conduit design for convenient cabling
◎Various actuators for different applications

接点型式 Contact Form

常开 NO 13 — 14 常开 NO
常闭 NC 11 — 12 常闭 NC

额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

注：1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

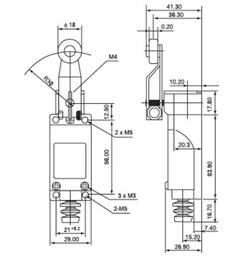
操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气：30 次 / 分 Electical：30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz,1.5mm double amplitude
冲击 Shock	机械耐久 :1,000m/Sec2(约 100G ’ S) 误动作耐久 :300m/Sec2(约 30G ’ S) Mechanical durable: 1, 000m/Sec2 (about 100G'S) Malfunction: 300m/Sec2 (about 30G'S)
周围温度 Ambient temperature	使用时 :-20~+70℃ (没有结冰) Using：-20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Degree of protection	IP65

动作特性 Operating Characteristics

型号 Model	NM-8	NM-8104	NM-8108	NM-8107	NM-8111	NM-8112/8122	NM-8166/8167/8168/8169
操作力 Operating force	OF(最大)(Max.)	750g	750g	750g	900g	900g	150g
回弹力 Release force	RF(最小)(Min.)	100g	100g	100g	150g	150g	-
预行程 Pre-travel	PT(最大)(Max.)	20 °	20 °	20 °	1.5mm	1.5mm	30mm
过行程 Over travel	OT(最小)(Min.)	50 °	50 °	50 °	4mm	4mm	-
行程移动分辨率 Movement differential	MD(最大)(Max.)	12 °	12 °	12 °	1mm	1mm	-
动作位置 Operating position	OP(mm.)	-	-	-	26 ± 0.8mm	37 ± 0.8mm	-

NM-8 立式限位开关 Vertical Limit Switch

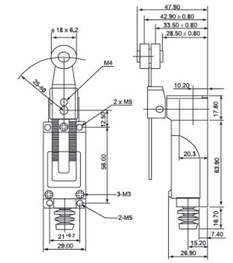
NM-8104



NM-8107



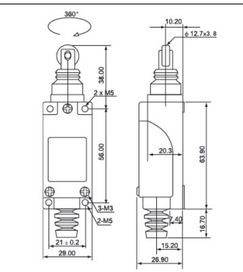
NM-8108



NM-8111



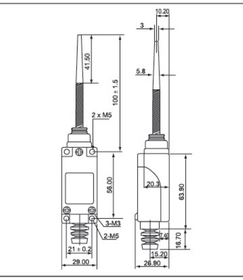
NM-8112



NM-8122



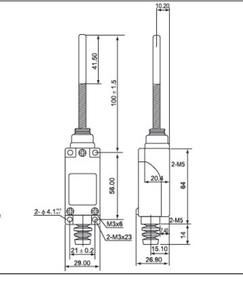
NM-8166



NM-8167



NM-8168



NM-8169



CHNANMA®



D4V 立式限位开关
Vertical Limit Switch

特点 Features

◎ 双回路型限动开关
◎ 结构坚固，由锌合金及强化塑胶组成
◎ 体积小，可防水、防油
◎ 内藏触点座有双簧片设计，机械寿命长
◎ 具有较大的过行程
◎ 引动器种类多，方便使用
◎ 优化尾部出线设计，以提高密封性能

◎Double circuit type of limit switch
◎High mechanical strength，consists of intensive plastic and aluminum cast
◎Small size，water-proof and oil proof construction
◎Built-in contact box has double-spring and long mechanical life
◎Smooth operation with larger over travel distance
◎Various actuators for different application
◎Optimize tail line design to improve sealing performance

接点型式 Contact Form

常开 NO 3 — 4 常开 NO
常闭 NC 1 — 2 常闭 NC

额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5						
14VDC	5	5	3	3	5	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4	3	3	4	4	3	3
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.：24A 以下、N.O.：12A 以下 N.C：below 24A，N.O：below 12A							

注：1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES：1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

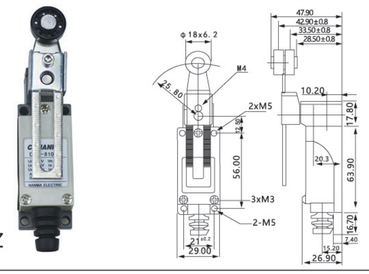
操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气 :30 次 / 分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz,1.5mm double amplitude
冲击 Shock	机械耐久：1,000m/Sec2(约 100G＇S) 误动作耐久：300m/Sec2(约 30G＇S) Mechanical durable：1, 000m/Sec2 (about 100G'S) Malfunction：300m/Sec2 (about 30G'S)
周围温度 Ambient temperature	使用时：-20~+70℃ (没有结冰) Using：-20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Degree of protection	IP65

动作特性 Operating Characteristics

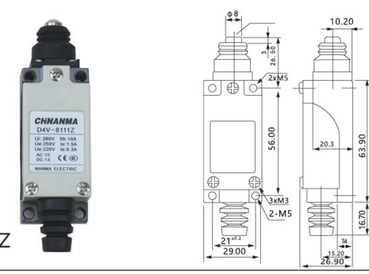
型号 Model	D4V-8 □ N	D4V-8104N D4V-8105N	D4V-8108N D4V-8109N	D4V-8107N	D4V-8111N	D4V-8112N D4V-8122N	D4V-8166N/8167N/ 8168N/8169N
操作力 Operating force	OF(最大)(Max.)	750g	750g	750g	900g	900g	150g
回弹力 Release force	RF(最小)(Min.)	100g	100g	100g	150g	150g	-
预行程 Pre-travel	PT(最大)(Max.)	20 °	20 °	20 °	1.5mm	1.5mm	30mm
过行程 Over travel	OT(最小)(Min.)	50 °	50 °	50 °	4mm	4mm	-
行程移动分辨率 Movement differential	MD(最大)(Max.)	12 °	12 °	12 °	1mm	1mm	-
动作位置 Operating position	OP(mm.)	-	-	-	26 ± 0.8mm	37 ± 0.8mm	-

D4V 立式限位开关 Vertical Limit Switch

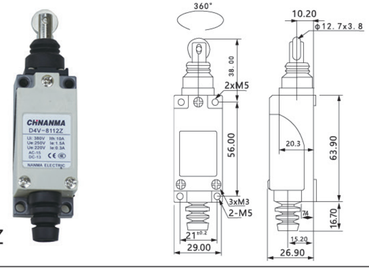
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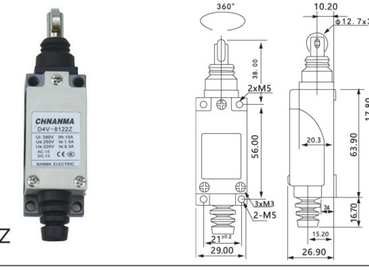
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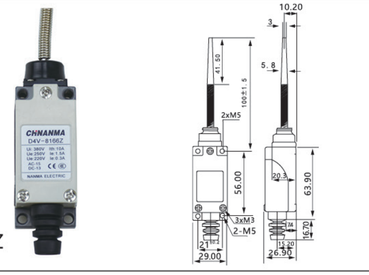
D4V-8112Z



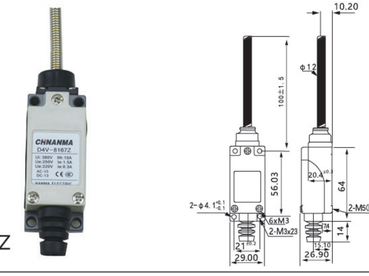
D4V-8122Z



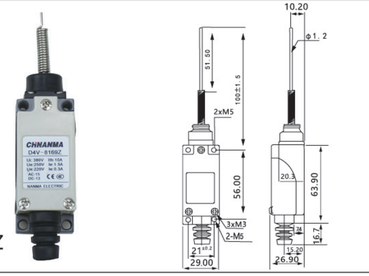
D4V-8166Z



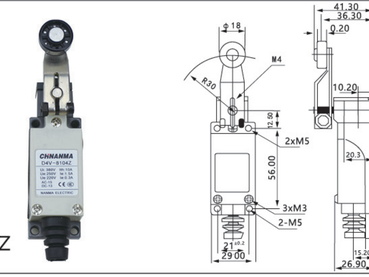
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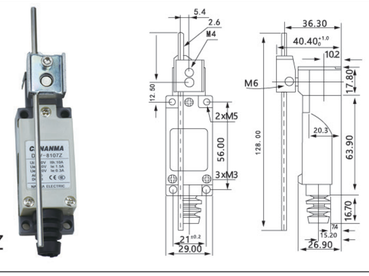
D4V-8169Z



D4V-8104Z



D4V-8107Z



D4V- 机芯 Driving mechanism



CHNANMA®



LSA 立式限位开关 Vertical Limit Switch

特点 Features

◎ 双回路型限动开关
◎ 结构坚固，由锌合金及强化塑胶组成
◎ 可防水、防油
◎ 内藏触点座有双簧片设计，机械寿命长
◎ 具有较大的过行程
◎ 三方向出线，方便使用

◎Double circuit type of limit switch
◎High mechanical strength, consists of intensive plastic and aluminum cast
◎Water-proof and oil proof construction
◎Built-in contact box has double-spring and long mechanical life
◎Smooth operation with larger over travel distance
◎Three way outgoing line, easy to use

接点型式 Contact Form

常开 NO 13 — 14 常开 NO
常闭 NC 11 — 12 常闭 NC

额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.：24A 以下、N.O.：12A 以下 N.C：below 24A, N.O：below 12A							

注：1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气 :30 次 / 分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz,1.5mm double amplitude
冲击 Shock	机械耐久 :1,000m/Sec²(约 100G ' S) 误动作耐久 :300m/Sec²(约 30G ' S) Mechanical durable: 1, 000m/Sec² (about 100G'S) Malfunction: 300m/Sec² (about 30G'S)
周围温度 Ambient temperature	使用时 :-20~+70℃ (没有结冰) Using：-20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	300,000 次以上 300,000 operations above
保护构造 Degree of protection	IP66

注 :导管连接器尺寸常规默认为 M18x1.5；导管连接器尺寸 PG11.5，型号加 (-P)，
例：LSA-012-P。

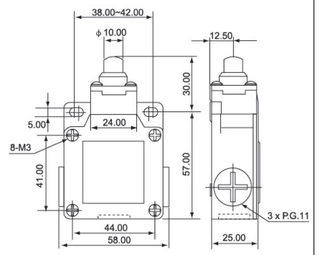
NOTES: The default size of conduit connector is M18x1.5.Conduit connector size is PG11.5, with product model number plus (-P), example:LSA-012-P.

动作特性 Operating Characteristics

型号 Model	LSA	LSA-001	LSA-003	LSA-012	LSA-021	LSA-031	LSA-061	LSA-071	LSA-081
操作力 Operating force	OF(最大)(Max.)	800g	800g	800g	400g	400g	150g	150g	150g
回弹力 Release force	RF(最小)(Min.)	400g	400g	400g	100g	100g	50g	50g	50g
预行程 Pre-travel	PT(最大)(Max.)	1.8mm	1.8mm	1.8mm	20 °	20 °	30mm	30mm	30mm
触发位置 Tripping position	TP ±10%	2.0mm	2.0mm	2.0mm	22.5 °	22.5 °	22.5 °	22.5 °	22.5 °
行程移动分辨率 Movement differential	MD(最大)(Max.)	1.2mm	1.2mm	1.2mm	10 °	10 °	14 °	14 °	14 °
过行程 Over travel	OT(最小)(Min.)	4.0mm	4.0mm	4.0mm	75 °	75 °	20mm	20mm	20mm
总行程 Total travel	TT(最小)(Min.)	5.8mm	5.8mm	5.8mm	95 °	95 °	50mm	50mm	50mm
摇臂转换分角度 Rotary indexing					22.5 °	22.5 °			

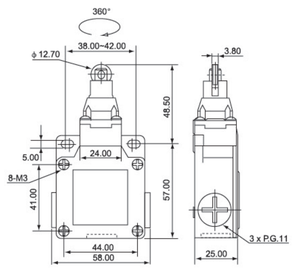
LSA 立式限位开关 Vertical Limit Switch





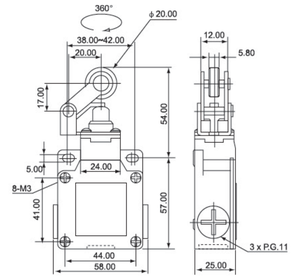
LSA-001





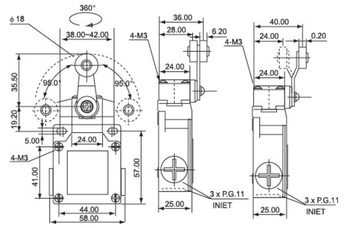
LSA-003





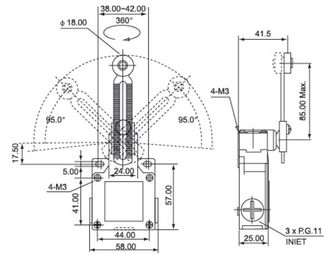
LSA-012





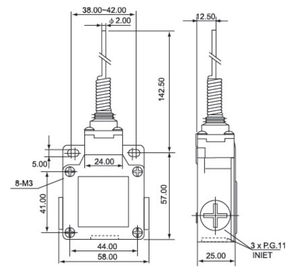
LSA-021





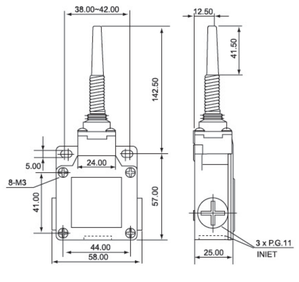
LSA-031





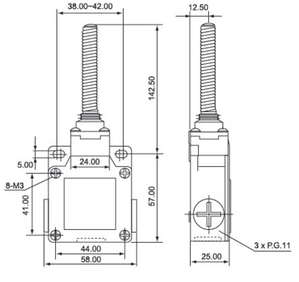
LSA-061





LSA-071





LSA-081



WL/NMGW 限位开关 Limit Switch

特点 Features

◎ 双回路型限动开关
◎ 具有高机械强度的一体铸造铝合金外壳
◎ 具耐油、防水和防压结构
◎ 引动器种类多，方便使用
◎ 内藏接点座有双簧片设计，机械寿命长

◎Double-circuit type of limit switch
◎High mechanical strength, mainly consists of aluminum cast
◎Water-proof and oil-proof construction
◎Various actuators for different applications
◎Built-in contact box with double spring mechanism, longer mechanical life

接点型式 Contact Form

常开 NO 3 — 4 常开 NO
常闭 NC 1 — 2 常闭 NC

额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2
250VAC	5		2	1	5		3	1
480VAC	3		1.5	0.8	3		1.5	0.8
600VAC	1		1	0.5	1.5		1	0.5
8VDC	10		6	3	10		6	
14VDC	10		6	3	10		6	
30VDC	6		4	3	6		4	
125VDC	0.8		0.2	0.2	0.8		0.2	
250VDC	0.4		0.1	0.1	0.4		0.1	

注：1、电感性负载：功率因素 =0.4；时间常数 =7msec。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	1mm 至 1m/s(CWLCA2 型) 1mm-1m/s
动作频率 Operating frequency	电气 :30 次 / 分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC ）
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz,1.5mm double amplitude
冲击 Shock	机械耐久 :1,000m/Sec2(约 100G ’ S) 误动作耐久 :300m/Sec2(约 30G ’ S) Mechanical durable: 1, 000m/Sec2 (about 100G'S) Malfunction: 300m/Sec2 (about 30G'S)
周围温度 Ambient temperature	使用时 :-20~+80℃ (没有结冰) Using：-20~+80℃（With no icing）
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Degree of protection	IP66

注：导管连接器尺寸常规默认为 M20x1.5，配电缆接头；导管连接器尺寸 PG13.5，型号加 (-P)，例：CWLCA2-2-P。

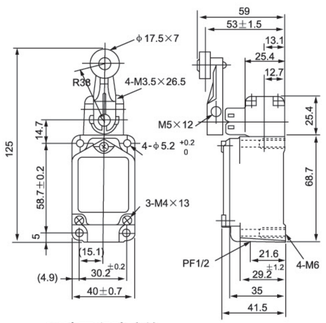
NOTES: The default size of conduit connector is M20x1.5, outfiting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:CWLCA2-2-P.

动作特性 Operating Characteristics

型号 Model	WL	WLCA2-2	WLD2	WLNJ	WLNJ-S2	WLCA12-2-Q	WLCL	WLCA32-41 WLCA32-42	WLD	WLNJ-2	WLNJ-30	WLD1	WLD3
操作力 Operating force	OF(最大)(Max.)	1360g	2720g	150g	29g	1360g	142g	1200g	2720g	120g	80g	2720g	2720g
回弹力 Release force	RF(最小)(Min.)	227g	910g	-	-	227g	28g	-	910g	-	-	910g	910g
预行程 Pre-travel	PT(最大)(Max.)	20 °	1.7mm	28mm	28mm	20 °	20 °	55 °	1.7mm	28mm	28mm	1.7mm	1.7mm
过行程 Over travel	OT(最小)(Min.)	30 °	5.6mm	-	-	30 °	30 °	35 °	6.4mm	-	-	5.6mm	5.6mm
行程移动分辨率 Movement differential	MD(最大)(Max.)	12 °	1mm	-	-	12 °	12 °	-	1mm	-	-	1mm	1mm
总行程动作力 Total force	TF 最大 (Max.)	2720g	-	-	-	2720g	200g	-	-	-	-	2720g	2720g
总行程 Total travel	TT 最小 (Min.)	50 °	6.5±0.8mm	-	-	50 °	50 °	OP:90±10 °	OP:34±2.8mm	-	-	6.5±0.8mm	9±0.8mm

WLCA 立式限位开关 Vertical Limit Switch

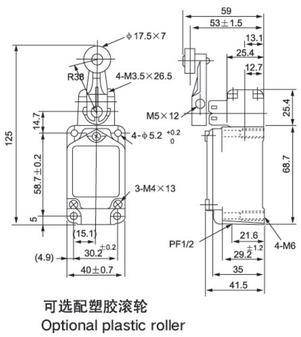




WLCA2-2
NMGW-05H

可选配塑胶滚轮
Optional plastic idler wheel

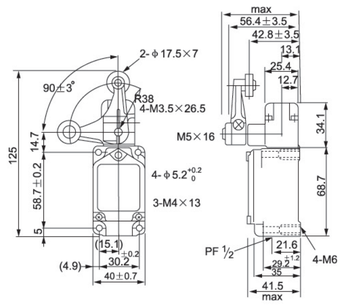




可选配塑胶滚轮
Optional plastic roller

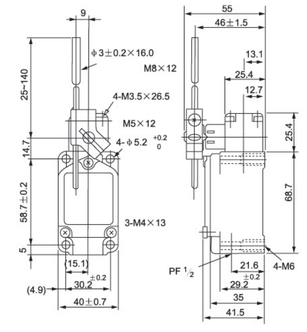
WLCA12-2Q
NMGW-06H





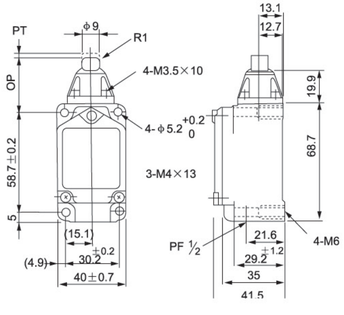
WLCA32-41
NMGW-13H





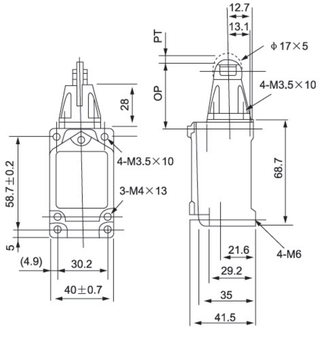
WLCL
NMGW-07H





WLD
NMGW-01H

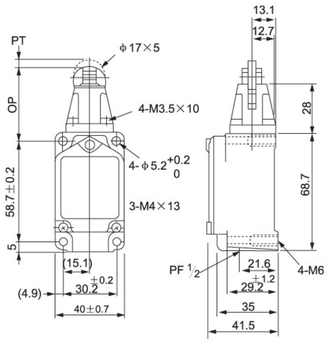




WLD1
NMGW-02H

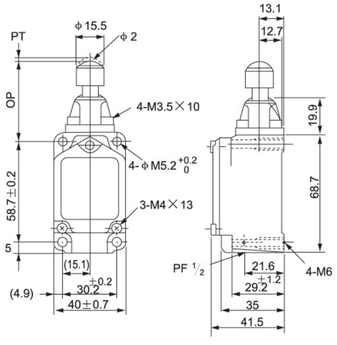
WLCA 立式限位开关 Vertical Limit Switch





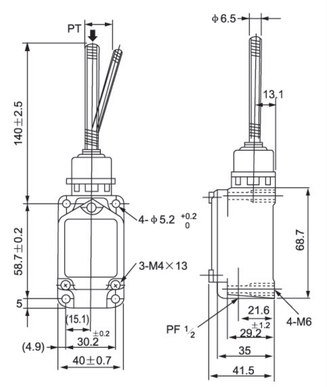
WLD2
NMGW-03H





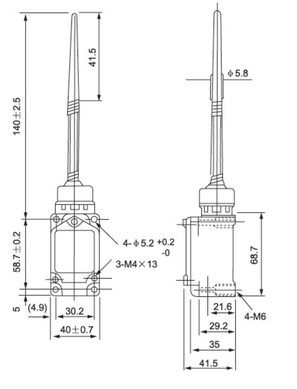
WLD3
NMGW-04H





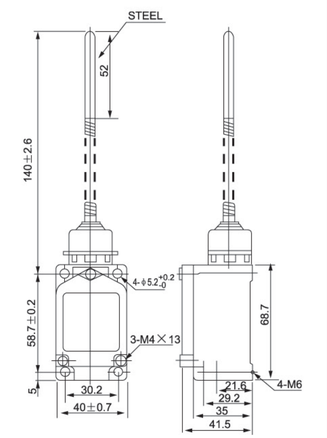
WLNJ
NMGW-08H





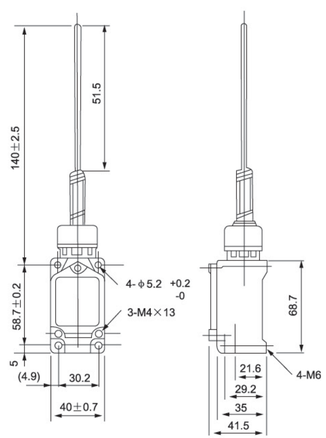
WLNJ-2
NMGW-09H





WLNJ-30
NMGW-11H





WLNJ-S2
NMGW-10H

NM-3 防水型限位开关 Waterproof Type Limit Switch



特点 Features

- ◎ 具有高机械强度的一体铸造铝合金外壳
- ◎ 具耐油，防水和防尘结构
- ◎ 引动器种类多，方便使用
- ◎ High mechanical strength, mainly consists of aluminum cast
- ◎ Water proof, oil proof and dust proof construction
- ◎ Various actuators for different applications

规格 Specifications

额定值 Rating	2A 250VAC
操作速度 Operation speed	1mm~1m/s(摆杆型 Swing rod type)
	0.1mm~0.5m/s(柱塞型 Plunger type)
动作频率 Operating frequency	电气 :30 次 / 分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10-55Hz, 1.5mm 双振幅 10 to 55HZ,1.5mm double amplitude
冲击 Shock	机械耐久 : 1000mm/s2 以上 (约 100G 以上) 误动作耐久 : 500mm/s2 以上 (约 50G 以上) Mechanical:Approx.1000m/s2 (Appprox.100G'S) Electrical:Approx.500m/s2 (Approx.50G'S)
周围温度 Ambient temperature	-20~+70 ℃ (没有结冰) Using：-20~+70℃ (With no icing)
湿度 Humidity	< 95% RH
电气寿命 Electrical life	20 万次以上 200,000 operations/min.
重量 Weight	约 360g(电缆线长 3m) 约 540g(电缆线长 5m) Approx.360g(cable length 3m) Approx.540g(cable length 5m)
防水等级 Protection level	IP67

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5 (0.1)		1.5	0.7	3		2.5	1.3
250VAC	3		1	0.5	2		1.5	0.8
8VDC	5 (0.1)		2		5	4	3	
14VDC	5 (0.1)		2		4	4	3	
30VDC	4 (0.1)		2		3	3	3	
125VDC	0.4		0.05		0.4	0.4	0.05	
250VDC	0.2		0.03		0.2	0.2	0.03	

注：带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。
Note: Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

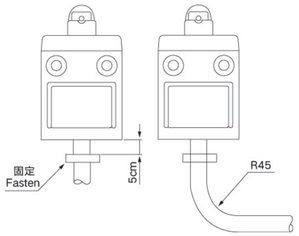
动作特性 Operating Characteristics

型号 Model	NM-3	NM-3101	NM-3102	NM-3103	NM-3104 (3107/3108)	NM-3111	NM-3112	NM-3113	NM-3169 (3166/3167/3168)
操作力 Operating force	OF(最大)(Max.)	11.77N	11.77N	11.77N	5.69N	17.65N	17.65N	17.65N	1.47N
回弹力 Release force	RF(最小)(Min.)	4.41N	4.41N	4.41N	1.47N	4.41N	4.41N	4.41N	-
预行程 Pre-travel	PT(最大)(Max.)	1.8mm	1.8mm	1.8mm	25	1.8mm	1.8mm	1.8mm	15 °
过行程 Over travel	OT(最小)(Min.)	3mm	3mm	3mm	40	3mm	3mm	3mm	-
行程移动分辨率 Movement differential	MD(最大)(Max.)	0.2mm	0.2mm	0.2mm	3	0.2mm	0.2mm	0.2mm	-
动作位置 Operating Position	TT 最小 (Min.)	15.7 ± 1mm	28.5 ± 1mm	28.5 ± 1mm	-	24.9 ± 1mm	34.3 ± 1mm	34.3 ± 1mm	-

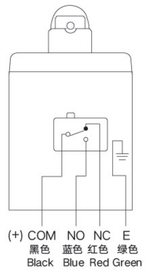
配线注意事项 Cabling Attention

配线需注意于离开关 5cm 处须加以固定，而电线之弯曲半径不得小于 R45cm，注意勿伤及电线绝缘体，以避免电线漏电等情形。

The switch bodies are filled with resin for sealing purposes. To avoid stressing the cable and switch body, fasten the switch at 5 cm or farther away from the switch body, should the wire be bent, the bending radius shall be at least 45mm.



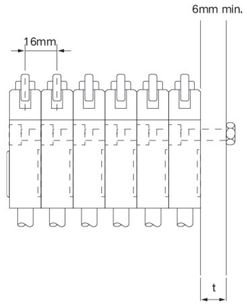
接点型式 Contact Form



多连接使用的场合 Quantity Mounted Using Attention

需连接多组使用的场合时，最多可连接 6 组开关，连接时，开关表面之凹凸槽相互配合，另板厚 t 之尺寸应在 6mm 以上为适当。

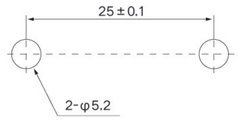
A maximum of six switches may be mounted together as a switch bank.During the installation,the convex part of the switch back.The mounting panel shall be 6mm or thicker.



装配孔尺寸 Mounting Holes

安装板发生翘曲或凸起之状态，会造成安装上之不良，安装板请经筛选确认后，再予以使用。

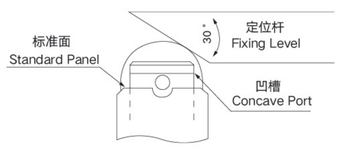
Mount the switch body to a rigid mounting panel using two M5 screws.



安装注意事项 Installation Attention

凸轮与定位杆等形状，频率及动作后移动等，将会影响使用寿命与精准度，因此建议定位杆之角度约 30°，而定位杆之表面粗糙度，以上，硬度 HV400-500，在设定开关之行程时，凹沟必须高于标准面之上为最适当之位置。

The service life and accuracy of switches will be effected by the shape of actuator operation frequency & over travel. So the angular of the fixing level should be about 30°, the surface finish of the fixing level should be over, the hardness is from HV400~500.When installing, the position of the concave part should be above the standard panel

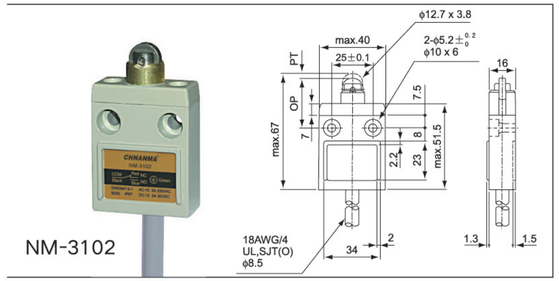


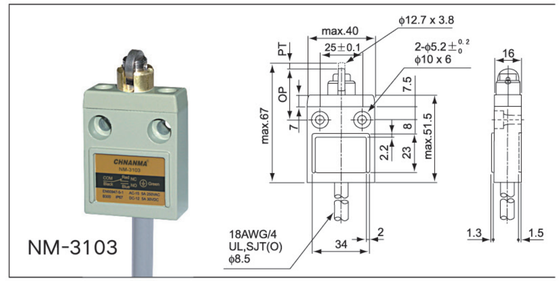
请依下表所示选择最适当之旋转扭力，施行锁紧作业，以避免伤害开关本体。

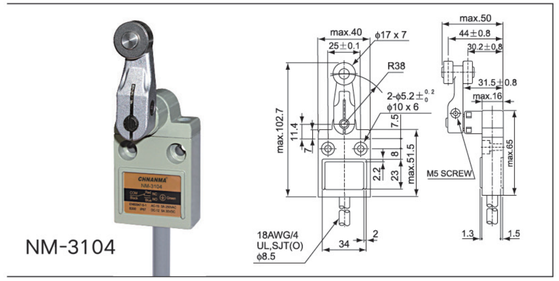
Recommended tightening torque according to the follwing form.

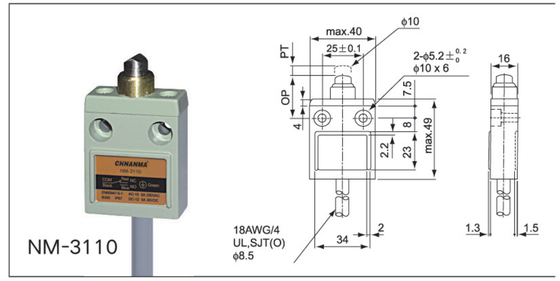
编号 Model	螺丝尺寸 Screw type	最适当之旋转扭力 Torque
1	M5 六角孔螺栓之固定螺丝 M5 fastening screws	43.4~52lb.in (50~60kgf.cm)
2	头部 M3.5 之安装螺丝 M3.5 installing screws	6.9~7.9lb.in (8~9kgf.cm)

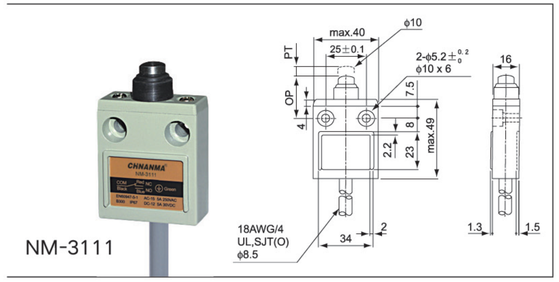
防水开关系列 Waterproof Switch

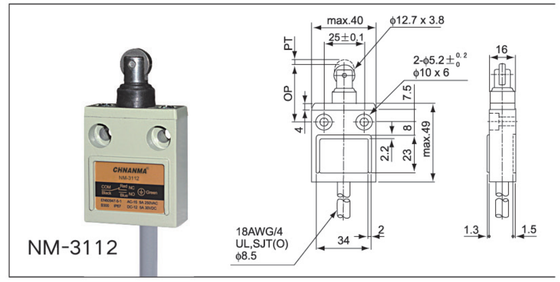


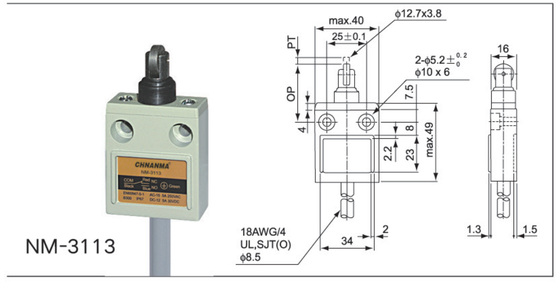


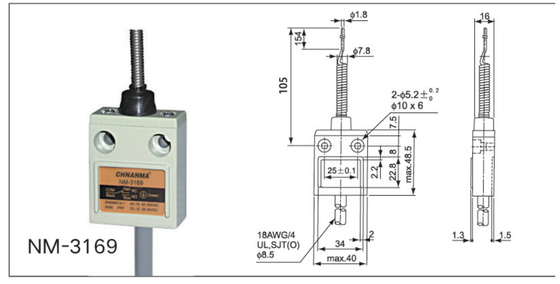


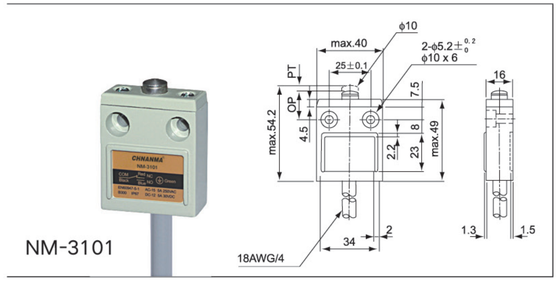


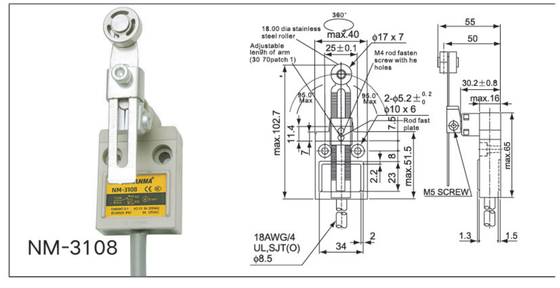












CHNANMA®



NM/TZ-6 卧式限位开关 Horizontal Limit Switch

特点 Features

◎ 内藏 NM 卧式限位开关
◎ 具有高机械强度的一体铸造铝合金外壳
◎ 具耐油、防水和防压结构
◎ 额定值及特性同 NM 卧式限位开关
◎ 引动器种类多，方便使用

◎Built-in NM horizontal limit switch
◎High mechanical strength, mainly consists of aluminum cast
◎Water-proof and oil-proof construction
◎Same rated value and characteristic with NM horizontal limit switch
◎Various actuators for different applications

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5						
14VDC	5	5	3	3	5	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4	3	3	4	4	3	3
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

注：1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气：20 次 / 分 Electical: 20 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz,1.5mm double amplitude
冲击 Shock	机械耐久 :1,000m/Sec2(约 100G＇S) 误动作耐久 :300m/Sec2(约 30G＇S) Mechanical durable: 1, 000m/Sec2 (about 100G'S) Malfunction: 300m/Sec2 (about 30G'S)
周围温度 Ambient temperature	使用时 :-20~+80℃ (没有结冰) Using：-20~+80℃（With no icing）
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Degree of protection	IP66

注：导管连接器尺寸常规默认为 M20x1.5，配电缆接头；导管连接器尺寸 PG13.5，型号加 (-P)，例：MN-6104-P。

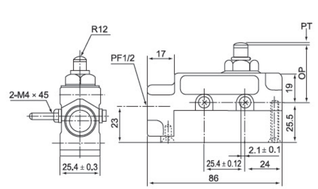
NOTES: The default size of conduit connector is M20x1.5, outfiting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:MN-6104-P .

动作特性 Operating Characteristics

型号 Model	MN-6	MN-6001	TZ-6002	TZ-6003	TZ-6004	TZ-6043	TZ-6101	TZ-6102	TZ-6103	TZ-6104	TZ-6143
操作力 Operating force	OF(最大)(Max.)	250~350g	250~350g		570g	570g	800g	500g		640g	640g
回弹力 Release force	RF(最小)(Min.)	114g	114g		170g	170g	240g	100g		230g	230g
预行程 Pre-travel	PT(最大)(Max.)	0.4mm	0.5mm		4mm	4mm	2mm	2mm		5mm	5mm
行程移动分辨率 Movement differential	MD(最大)(Max.)	0.05mm	0.05mm		0.4mm	0.4mm	0.1mm	0.12mm		0.4mm	0.4mm
过行程 Over travel	OT(最小)(Min.)	5.5mm	6.3mm		6mm	6mm	5mm	3.5mm		6mm	6mm
总行程 Total travel	OP (mm.)	38.2±0.8mm	49.7±1mm				45.8±0.8mm	49.7±0.8mm			

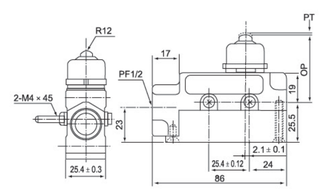
NM-6 卧式限位开关 Horizontal Limit Switch





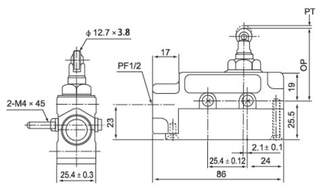
NM-6001





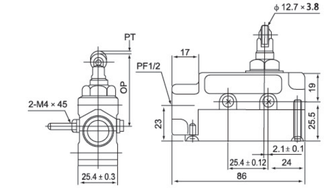
NM-6101





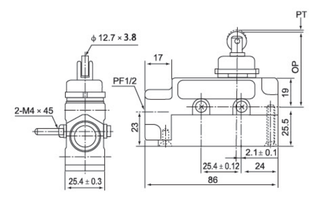
NM-6002





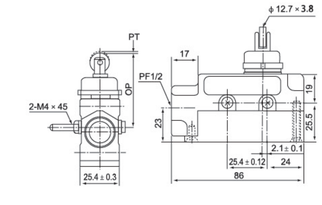
NM-6003





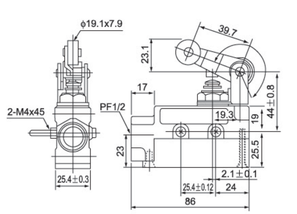
NM-6102





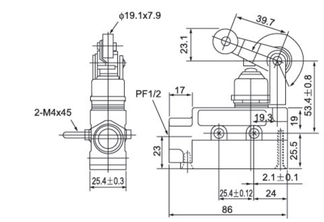
NM-6103





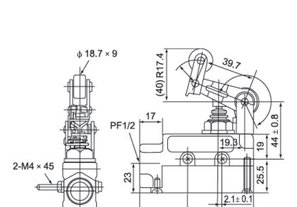
NM-6004





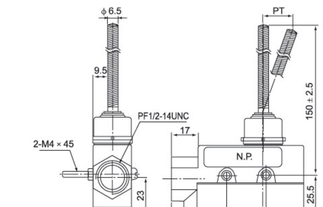
NM-6104





NM-6143





NM-6106



NM93/D4NS 安全门限位开关 Safety door limit switches

型号说明 Model Number Structure

NM93 - ① - ② - ③ - ④ - ⑤

短款机械式 -D4NS　Short mechanical -D4NS
长方形电磁锁 -D4SL　Rectangular magnetic lock -D4SL
方形电磁锁 -D4NL　Square magnetic lock -D4NL

代号 designation	说明 Instructions
①	设计序号 Design sequence number
②	接点方式：见下表 Contact mode: See the table below
③	解锁钥匙形式：见下表 Unlock key form: See the table below
④	头部代号：无：塑料款 J: 金属款 Head code: None: plastic J: metal
⑤	锁定形式 电磁锁定 D 机械锁定 J Locking form Electromagnetic locking D mechanical locking J

型号 Model number	开闭方式表述 Open and closed expression	开闭状态 Open and closed state	解锁钥匙形式③ Unlock key form	
D4NS（短款 short version）	B1(1AF)-K	1NO 1NC	K01	直行式 Straight line type
	B2(1BF)-K	2NC	K02	折弯式 Bending type
	C1(1CF)-K	1NO 2NC	K03	底座直行式 Base straight line type
	C2(1DF)-K	3NC		
D4NL（正方形 square）	B1(1AF)-G	1 NO 1 NC + 1 N0 1 NC	G01	直行式 Straight line type
	B2(1BF)-G	2 NC + 1 N0 1 NC	G02	折弯式 Bending type
	C1(1CF)-G	1 NO 2 NC + 1 N0 1 NC	G03	底座直行式 Base straight line type
	C2(1DF)-G	3 NC + 1 NO 1 NC		
	B1(1AF)-GK	1 NO 1 NC + 1 NO 1 NC	GK04	宽体直行式 Wide body straight line type
D4SL（长方形 rectangle）	B2(1BF)-GK	2 NC + 1 N0 1 NC	GK05	宽体折弯式 Wide body bending type
	C1(1CF)-GK	1 NO 2 NC + 1 NO 1 NC	GK06	宽底座直行式 Wide base straight line type
	C2(1DF)-GK	3 NC + 1 NO 1 NC		

注：导管连接器尺寸常规默认为 M20×1.5。
NOTE: The default size of conduit connector is M20x1.5.

规格 Specifications

额定电流 Rating	3A 240VAC (A300)
操作速度 Operating speed	0.1m~0.5m/s
动作频率 Operating frequency	30 次 / 分 30 operations/min
接点电阻 Contact resistance	25mΩ 以下（初期）25mΩ2 max.(initial).
绝缘电阻 Insulation resistance	100mΩ 以上（在 500VDC 以下） 100mΩmin.(at 500VDC)
绝缘电压 Rated insulation voltage(UI)	400V
电介强度 Dielectric strength	AC2500V/Umip 4KV
振动 Vibration	10 至 55HZ,1.5mm 双振幅 10 to 55Hz,1.5mm double amplitude
冲击 Shock	机械耐久：1000m/s2 以上（约 100G 以上） 误动作耐久：300m/s2 以上（约 30G 以上） Mechanical：Approx.1000m/s2 (Approx.100G's) Electrical：Approx.300m/s2(Approx.30G'S)
使用温度 Ambient temperature	-20~+70℃（没有结冰）Using: -20~+70℃（With no icing）
使用湿度 Ambient Humidity	<95% RH
电气寿命 Electrical life	15 万次以上 150,000 operations/min.
防水等级 Protection level	IP65 (IEC 规格 Standard)

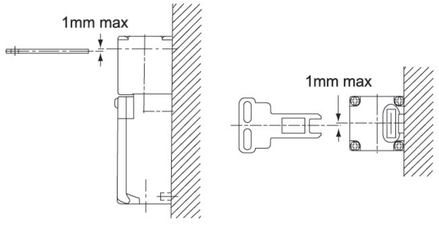
额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	10		3	1.5	10		5	2.5
250 VAC	10		2	1	10		3	1.5
400 VAC	10		1.5	0.8	3		1.5	0.8
8 VAC	10		6	3	10		6	6
14 VAC	10		6	3	10		6	6
30 VAC	6		4	3	6		4	4
125 VAC	0.8		0.2	0.2	0.8		0.2	0.2
250 VAC	0.4		0.1	0.1	0.4		0.1	0.1

使用注意事项 Cautions

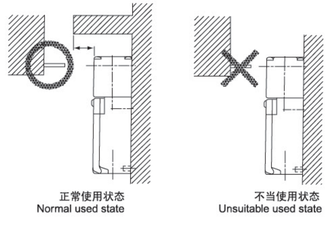
钥匙与插入孔之中心上下左右位置应在 1mm 以内，以避免机构磨耗和破坏。

To prevent the wear and the space should be within 1mm between the
key and middle of the insert hole.

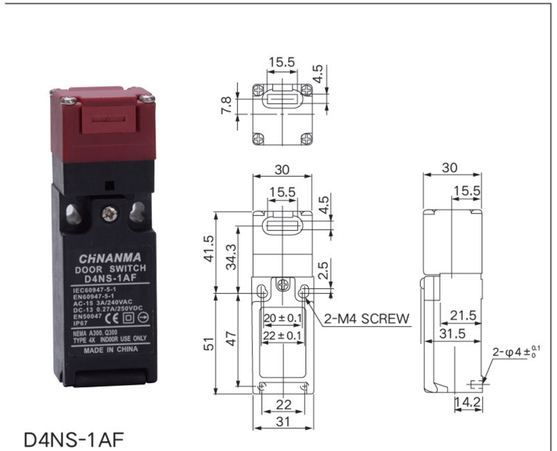


使用开关时，应于上方设置一挡板，以防止钥匙过于插入使机构损坏。而挡板与开关间 a 之距离应在 3mm 以下，以防止不动作。

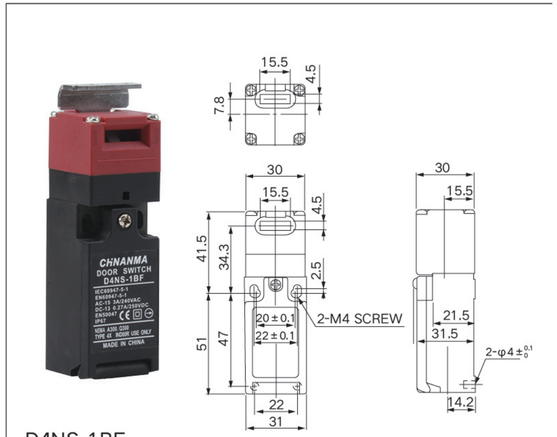
When in use,there should put a plate on the top to prevent the key overinsert.To prevent nonmovement, the space between the plate and the switch should be under 3 mm.



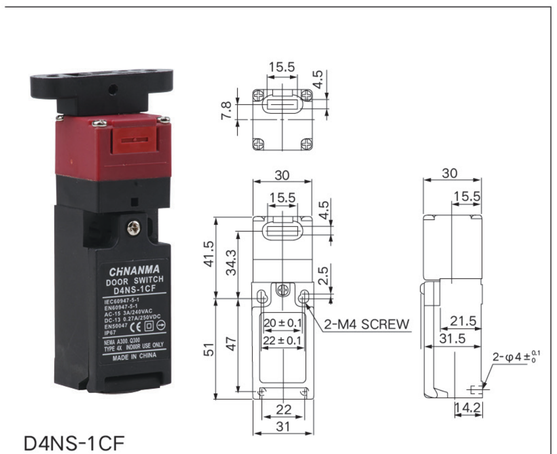
安全门开关限位 Safety door limit switches



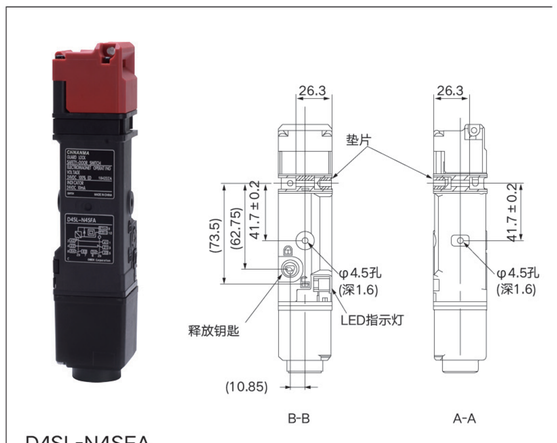
D4NS-1AF



D4NS-1BF

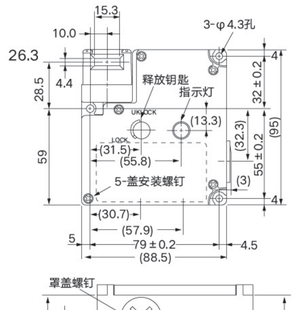


D4NS-1CF



D4SL-N4SFA





NM4NL-1EF-B
D4NL-





安全开关锁扣

CHNANMA®



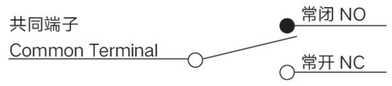
NM-7 立式微动开关 Vertical Micro Switch

特点 Features

◎ 引动器种类广泛，其中包含动作位置可调整的款式 (如 AZ-7121)
◎ 外壳包覆强化塑胶、防水、防油，较 TM 型卧式限位开关有更高的机械强度，耐冲击

◎Various actuators and some with adjustable operating position (such as AZ-7121)
◎Shell covered with intensive plastic for water-proof and oil-proof. The mechanical strength is better than TM series of horizontal limit switch

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2.5
250VAC	10		2.5	1.25	5		3	1.5
480VAC	3		1.5	0.75	3		1.5	0.75
8VDC	10		3	1.5	10		6	5
14VDC	10		3	3	10		6	5
30VDC	8		3	3	6		5	2.5
125VDC	0.5		0.4	0.2	0.8		0.05	0.05
250VDC	0.25		0.2	0.1	0.4		0.03	0.03

注：1、电感性负载；功率因素 =0.4; 时间常数 =7msec。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	0.05mm 至 0.5m/s
动作频率 Operating frequency	电气 :20 次 / 分 Electical: 20 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC ）
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz,1.5mm double amplitude
冲击 Shock	机械耐久 :1,000m/Sec2(约 100G ’ S) 误动作耐久 :300m/Sec2(约 30G ’ S) Mechanical durable: 1, 000m/Sec2 (about 100G'S) Malfunction: 300m/Sec2 (about 30G'S)
周围温度 Ambient temperature	使用时 :-20~+70℃ (没有结冰) Using : -20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
重量 Weight	约 60g About 60g

注：导管连接器尺寸常规默认为 M20x1.5，配电缆接头；导管连接器尺寸 PG13.5，型号加 (-P)，例：CWLCA2-2-P。

NOTES: The default size of conduit connector is M20x1.5, outfiting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:CWLCA2-2-P.

动作特性 Operating Characteristics

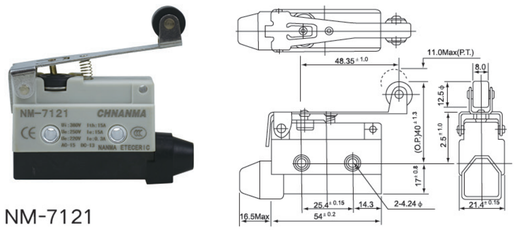
型号 Model	NM-7	NM-7100	NM-7110	NM-7310	NM-7311	NM-7312	NM-7120	NM-7140	NM-7121	NM-7141	NM-7124	NM-7144	NM-7166
操作力 Operating force	OF(最大)(Max.)	600g	600g	600g	600g	600g	150g	220g	180g	240g	200g	280g	120g
回弹力 Release force	RF(最小)(Min.)	100g	100g	100g	100g	100g	40g	60g	50g	80g	60g	100g	
预行程 Pre-travel	PT(最大)(Max.)	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	13.5mm	8.5mm	11.0mm	6.5mm	11mm	6.5mm	250mm
过行程 Over travel	OT(最小)(Min.)	0.8mm	5.0mm	6.0mm	6.0mm	6.0mm	4.0mm	2.5mm	3.0mm	2.0mm	3.0mm	2.0mm	11mm
行程移动分辨率 Movement differential	MD(最大) (Max.)	0.8mm	0.8mm	0.8mm	0.8mm	0.8mm	3.2mm	2.0mm	2.4mm	1.5mm	2.4mm	1.5mm	
总行程动作力 Total force	OP(mm.)	30.5±0.8mm	44±1.2mm	21.8±1.2mm	33.3±1.2mm	33.3±1.2mm	25±1mm	25±1mm	40±1mm	40±1mm	50±1.2mm	50±1.2mm	
总行程 Total travel	FP						35mm	32mm		46mm		56mm	

ISO 9001 CCC RoHS CE

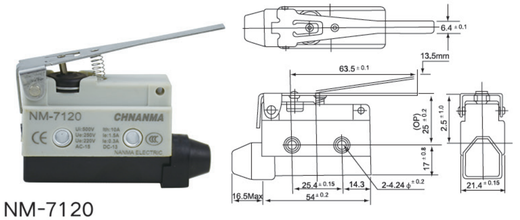
CHNANMA® 南马电气

微动开关系列 MICRO SWITCH

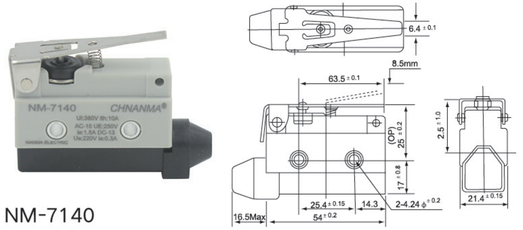
NM-7121



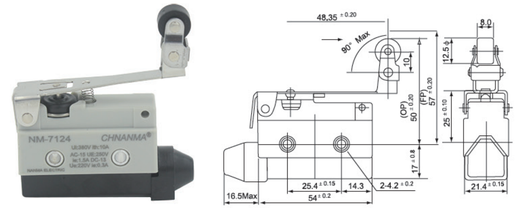
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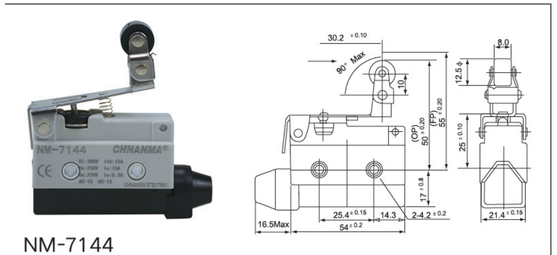
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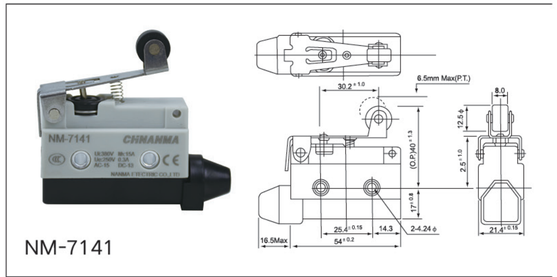
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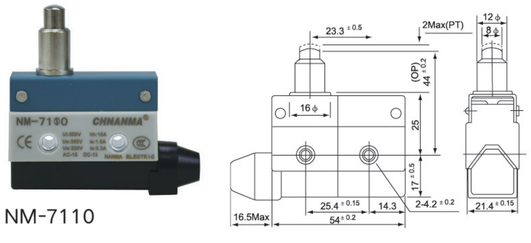
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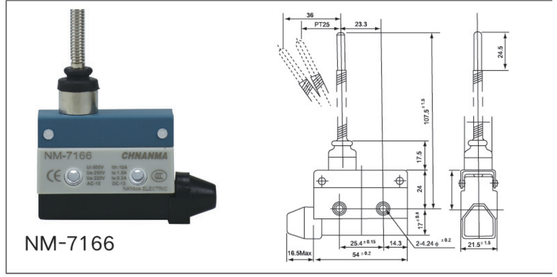
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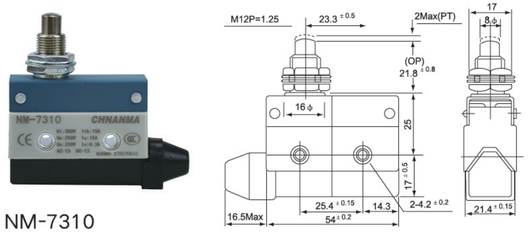
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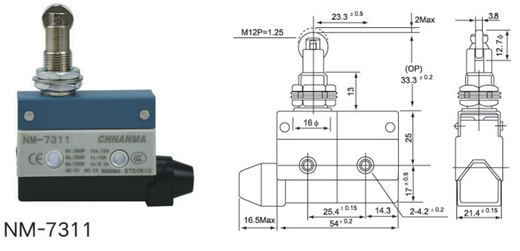
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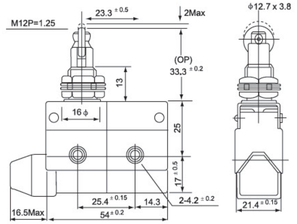
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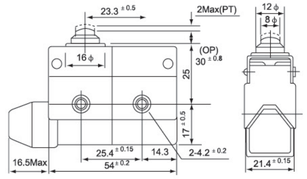
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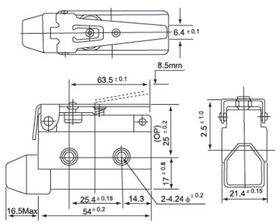
微动开关系列 MICRO SWITCH

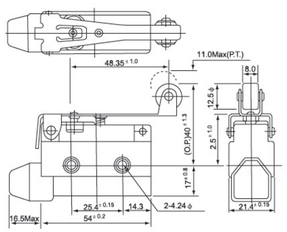
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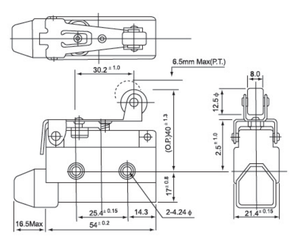
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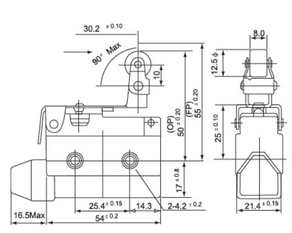
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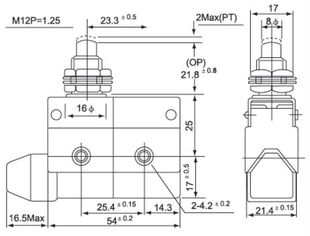
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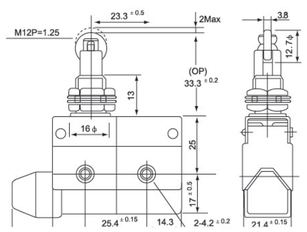
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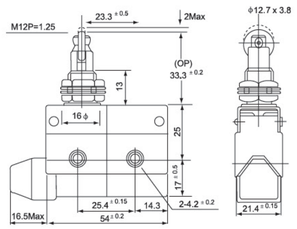
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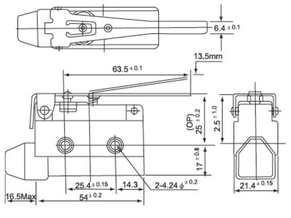
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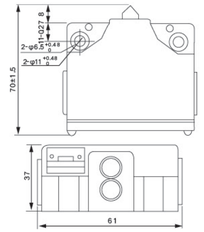



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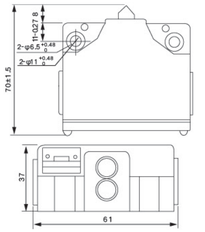



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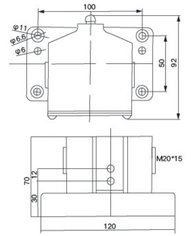
LXZ1 高精度行程开关系列 LXZ1 High precision stroke switch series

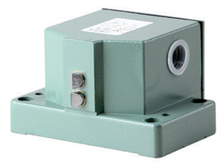
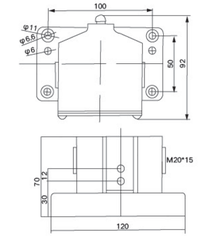
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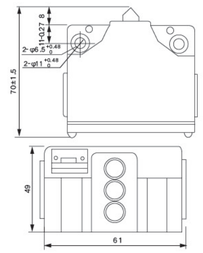
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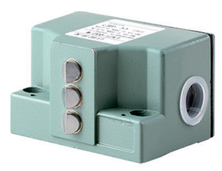
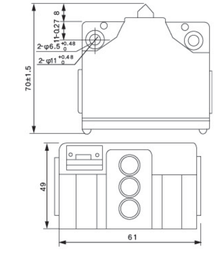
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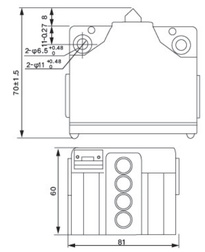
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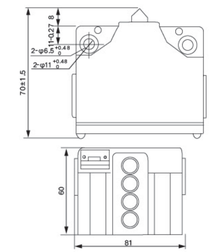
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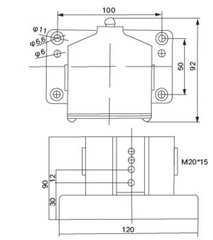
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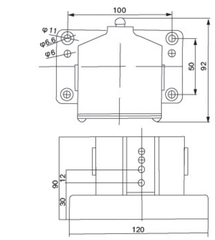
LXZ1-04Z/N

LXZ1-04Z/W

LXZ1-04L/N

LXZ1-04L/W



XCMD 防水型限位开关 Waterproof limit switch

特点 Features

- ◎ 欧洲标准产品 (EN50047) 带有肯定断开触头，甚至还有可以用于安全领域的快速操作型产品。
- ◎ 很适合空间比较局促，操作环境恶劣的机器。
- ◎ XCMD 与小型产品的操作头一样，也带有肯定断开触头，甚至还有可以用于安全领域的快动型产品。
- ◎ The European standard product (EN50047) comes with a sure break contact, and there are even fast operating products that can be used in the field of safety.
- ◎ It is suitable for machines with cramped space and harsh operating environment.
- ◎ XCMD, like the operating heads of small products, also comes with certain disconnect contacts, and there are even fast-moving products that can be used in the security field.

规格 /Specification

型号 Model number		小型 Osiconcept
外壳 shell		金属 metal
特性 peculiarity		本体或头部固定 Body or head fixed
Osiconcept 模块化 modularization		头部，本体和连接部件的模块化 Modularization of the head, body and connecting parts
本体尺寸 Body size(W*H*D) mm		30*50*16
操作头 Operating head		线性运动 (直杆) 转动 (摇杆) 转动，万向 XCM D,XCK D,XCK P 和 XCK T 系列均使用相同的操作头 Linear motion (straight rod) rotation (rocker) rotation, universal XCM D,XCK D,XCK P and XCK T series all use the same operating head
触点模块 Contact module	2 对带肯定断开速动触点或 1C/O 触点 2 pairs of positive break quick contact or 1C/O contact	N/C + N/O; N/C +N/C
	3 对带肯定断开功能的速动触点 3 Pairs of quick action contacts with a positive disconnect function	N/C +N/C +N/O
	4 对带肯定断开功能的速动触点 4 Pairs of quick action contacts with a positive disconnect function	N/C + N/C + N/O+N/O
	2 对带肯定断开功能的慢动触点 2 pairs of slow moving contacts with a positive disconnect function	N/C +N/O 先断后合 Break first and then close
	2 对慢动触点 2 pairs of slow acting contacts	/
	3 对带肯定断开功能的慢动触点 3 Pairs of slow moving contacts with a positive disconnect function	N/C + N/C+ N/O 先断后合 Break first and then close
绝缘电压 (Ui)/ 发热电流 (Ithe) Insulation voltage (Ui)/ Heating current (Ithe)		成型电缆 2 对触点 :400V/6A；3 对触点 :400V/4A； 4 对触点 :400V/3AFormed cable 2 pairs of contacts :400V/6A; 3 pairs of contacts :400V/4A; 4 pairs of contacts :400V/3A
防护等级 IP/IK Protection level IP/IK		IP 66，IP 67，IP 68，IKO6
连接 connect	接头 splice	集成或远程 M12 或远程的 7/8" 16 UN 接头 Integrated or remote M12 or remote 7/8" 16 UN connector

非标型号描述 Non-standard model description

型号 Model number	小型 Osiconcept
XCMD2121L1	滚轮斜压式 Roller oblique pressure type
XCMD2122L1	陶瓷棒转臂式 Ceramic rod rotary arm type
XCMD2113L1	圆柱加长推杆式 Cylindrical extension pusher type
XCMD21G1L1	圆柱螺纹推杆式 Cylindrical thread push-rod type
XCMD2127L1	滚轮外向斜压式 Roller outward baroclinic type
XCMD2102M12	滚轮推杆式 4 芯航空插 Roller push-rod type 4-core aviation insert
XCMD2102C12	滚轮推杆式 5 芯航空插 Roller push-rod type 5-core aviation insert

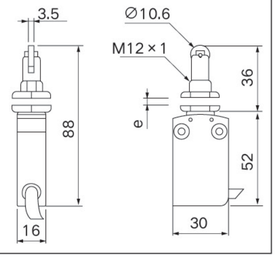
"L1" 表示 1 米线，"L2" 表示 2 米线

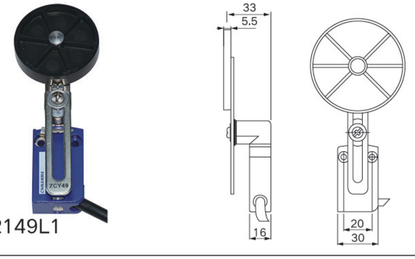
"L1" means 1 meter line, "L2" means 2 meter line

限位开关 Limit switch



XCMD21F0L1



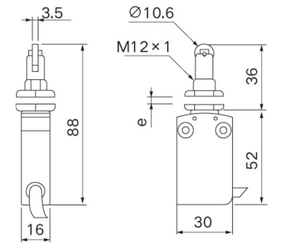


XCMD2149L1

防水型限位开关 Waterproof limit switch

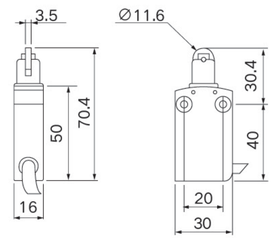


XCMD21F2L1



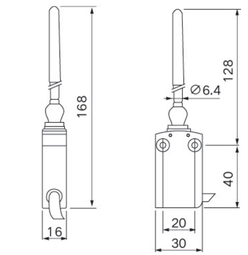


XCMD2102L1



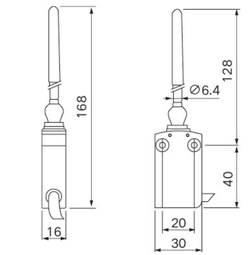


XCMD2107L1



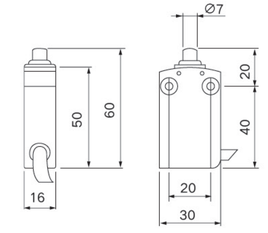


XCMD2108L1



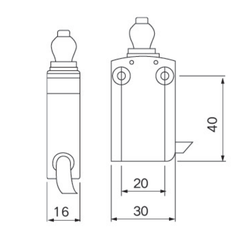


XCMD2110



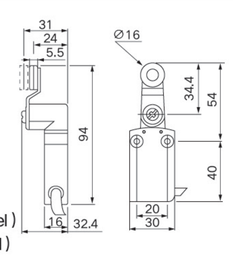


XCMD2111L1



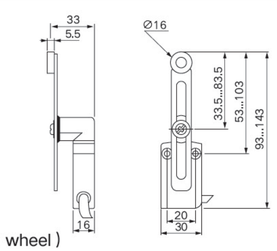


XCMD2115L1（塑料轮 Plastic wheel）
XCMD2116L1（金属轮 Metal wheel）



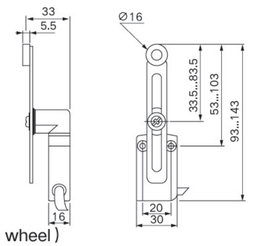


XCMD2145（塑料轮 Plastic wheel）



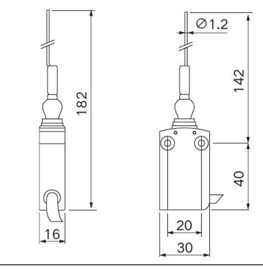


XCMD2146L1（塑料轮 Plastic wheel）





XCMD2106L1





NLS 行程开关系列
Travel switch series

型号说明 Model Description

NLS-☐
☐：传动轴的种类
1000：滚轴杆型
1001：推压塞杆型
1002：滚轴塞杆型
1004：滚轴臂型
1008：可调式滚轴臂型

NLS-☐
☐: Type of drive shaft
1000: Roller rod type
1001: Push plug rod type
1002: Roller plug rod type
1004: Roller arm type
1008: Adjustable roller arm type

额定值 Rated number

额定电压 rated voltage	交流（VAC）			直流（VDC）		
	125VAC	250VAC	380VAC	24VDC	60VDC	220VDC
非电感性负载 Non-inductive loads	6A	6A	6A	5A	1.5A	0.3A
电感性负载 Inductive loads	6A	6A	6A	2.5A	1.5A	0.3A

动作特性 Action Characteristics

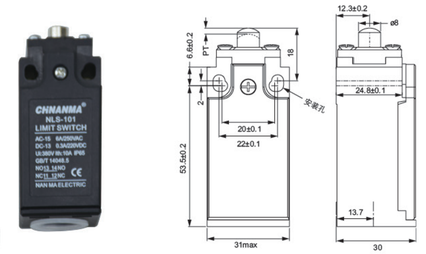
型号 Models	NLS1000	NLS1001	NLS1002	NLS1004	NLS1008
OF 最大（Max.）	400	650	650	500	500
RF 最小（Min.）	80	150	150	50	50
PT 最大（Max.）	4mm	2mm	2mm	20 ° to26 °	20 ° to26 °
OT 最小（Min.）	5mm	4mm	4mm	30 °	30 °
MD 最大（Max.）	1.6mm	1.2mm	1.2mm	14 °	14 °
OP（mm）	-	18±0.5	28±1	-	-

特性 CHaracteristics

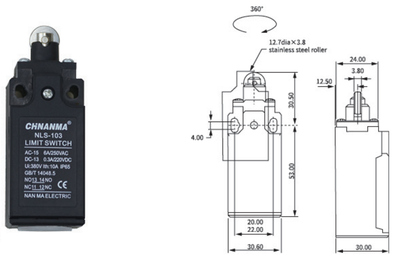
接点电阻 Contact resistance	25MΩ
绝缘电阻 electrical insulation resistance	100MΩ 以上（500VDC）
耐电压 withstand voltage	非连续端子间 1,000VAC,50/60Hz 持续 1 分钟载电流与无载电流零件间与端子和接地之间 2,500VAC，50/60Hz 持续 1 分钟 1,000VAC, 50/60Hz for 1 minute between discontinuous terminals 2,500VAC, 50/60Hz for 1 minute between loaded and unloaded current parts and between terminals and grounding
振动 vibratory	10 至 55Hz：1.5mm
冲击 under attack	机械耐久：1,000m/Sec2（100G`S） 误动作耐久：300m/Sec2（30G`S） Mechanical endurance: 1,000m/Sec2 (100G`S) Malfunction endurance: 300m/Sec2 (30G`S)
周围温度 ambient temperature	-20℃至 +65℃
湿度 humidity level	最大 90%RH Maximum 90% RH
使用寿命 service life	机械：10,000 Mechanical: 10,000
防护等级 protection class	Max 90%RH

行程开关系列 TRAVEL SWITCH

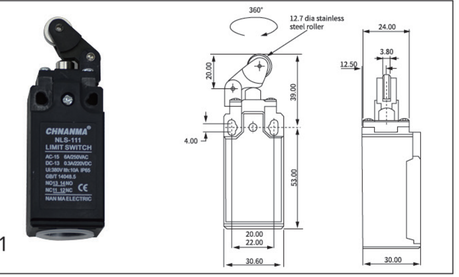
NLS-101



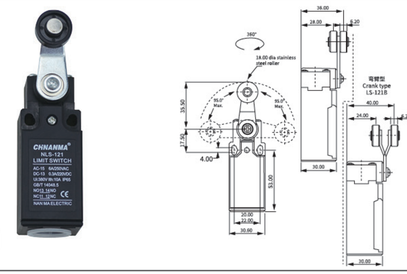
NLS-103



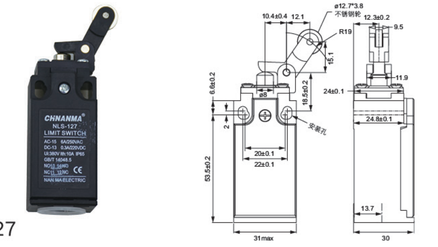
NLS-111



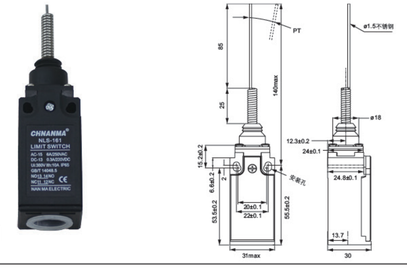
NLS-121



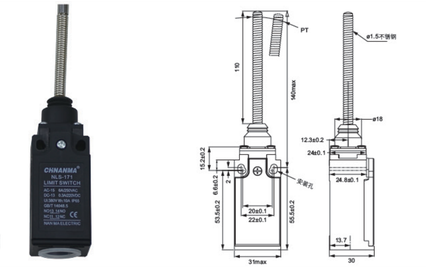
NLS-127



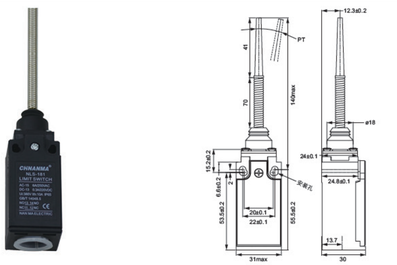
NLS-161



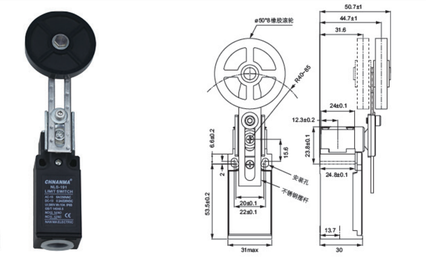
NLS-171



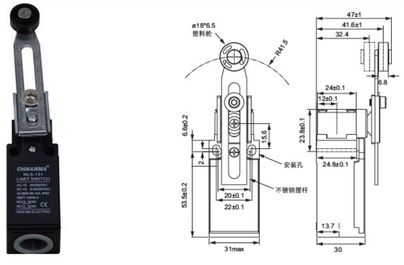
NLS-181



NLS-191



NLS-131





NMGW 耐高温行程开关 +180/300/500℃
High temperature travel switch

特点 Features

- ◎ 双回路型限动开关
- ◎ 具有高机械强度的一体铸造铝合金外壳
- ◎ 具耐油、防水和防压结构
- ◎ 引动器种类多，方便使用
- ◎ 内藏接点座有双簧片设计，机械寿命长
- ◎ Double-circuit type of limit switch
- ◎ High mechanical strength, mainly consists of aluminum cast
- ◎ Water-proof and oil-proof construction
- ◎ Various actuators for different applications
- ◎ Built-in contact box with double spring mechanism, longer mechanical life

接点型式 Contact Form

常开 NO 3 — 4 常开 NO
常闭 NC 1 — 2 常闭 NC

额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2
250VAC	5		2	1	5		3	1
480VAC	3		1.5	0.8	3		1.5	0.8
600VAC	1		1	0.5	1.5		1	0.5
8VDC	10		6	3	10		6	
14VDC	10		6	3	10		6	
30VDC	6		4	3	6		4	
125VDC	0.8		0.2	0.2	0.8		0.2	
250VDC	0.4		0.1	0.1	0.4		0.1	

注：1、电感性负载：功率因素 =0.4：时间常数 =7msec。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

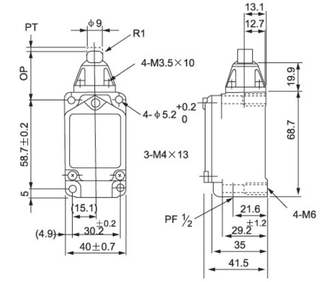
NOTES: 1.Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
2.Lamp load has an inrush current of 10 times the steady-state current,while motor load has an inrush current of 6 times the steady-state current.
3.Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	1mm 至 1m/s(CWLCA2 型) 1mm-1m/s
动作频率 Operating frequency	电气 :30 次 / 分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC ）
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz,1.5mm double amplitude
冲击 Shock	机械耐久 :1,000m/Sec2(约 100G ’ S) 误动作耐久 :300m/Sec2(约 30G ’ S) Mechanical durable: 1, 000m/Sec2 (about 100G'S) Malfunction: 300m/Sec2 (about 30G'S)
周围温度 Ambient temperature	使用时 :-20~+80℃ (没有结冰) Using : -20~+80℃（With no icing）
温度选择	+180℃ /300℃ /500℃
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Degree of protection	IP66

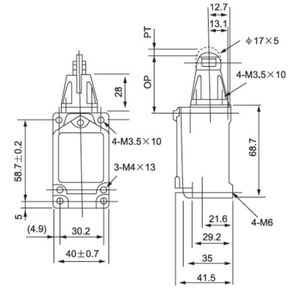
行程开关系列 TRAVEL SWITCH





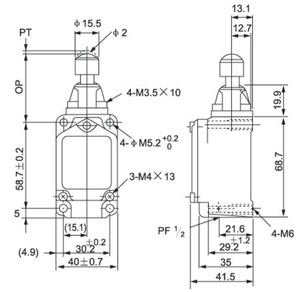
NMGW-01H





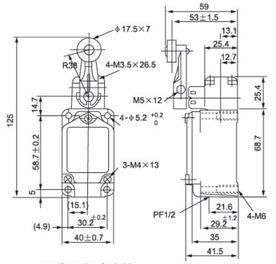
NMGW-03H





NMGW-04H

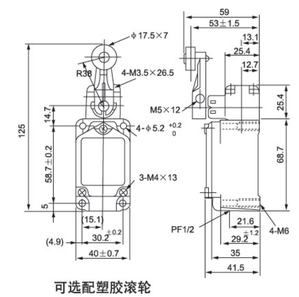




可选配塑胶滚轮
Optional plastic idler wheel

NMGW-05H

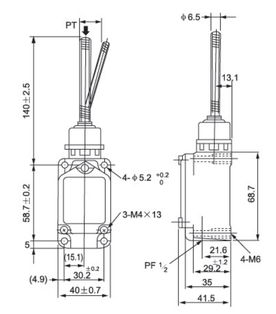




可选配塑胶滚轮
Optional plastic roller

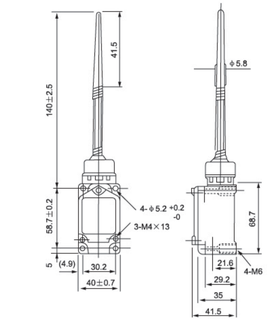
NMGW-06H





NMGW-08H





NMGW-09H



NMGW- 陶瓷机芯 Porcelain Driving mechanism



NM/XCK-J 行程开关 Limit Switch

特点 Features

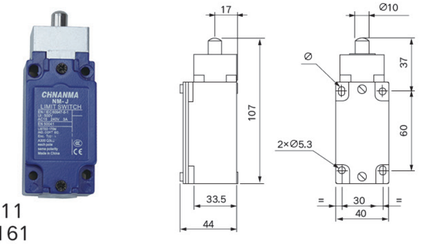
◎ 欧洲标准产品 (EN50047) 带有肯定断开触头，甚至还有可以用于安全领域的快速操作型产品。
◎ 很适合空间比较局促，操作环境恶劣的机器。
◎ XCKJ 提供了同类产品中更可靠的操作头、快速肯定断开触头以及一个固定的插拔式主体结构。
◎ The European standard product (EN50047) comes with a sure break contact, and there are even fast operating products that can be used in the field of safety.
◎ It is suitable for machines with cramped space and harsh operating environment.
◎ XCKJ offers a more reliable operating head in its class, fast and sure disconnect contacts, and a fixed plug-in body structure.

规格 /Specification

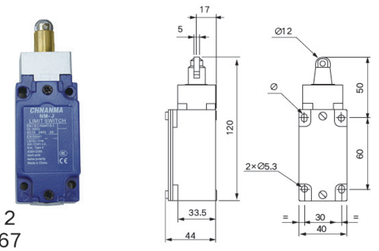
型式 type		J 经典型 J classic
外壳 shell		金属 metal
特性 peculiarity		固定或插入式本体低温可至 -40℃，高温可至 +120℃ Fixed or plug-in body can be low temperature up to -40℃ , high temperature up to +120℃
多部件组合开关 Multi-component combination switch		操作头 + 本体 + 触点模块 Operating head + body + contact module
标准符合性 Standard compliance		EN 50041
本体尺寸 Body size(W*H*D) mm		40*77*44 / 42.5*84*36
操作头 Operating head		线性运动 (直动) 转动 (摇杆) 转动，万向 Linear motion (direct motion) rotation (rocker) rotation, universal
触点模块 Contact module	2 对带肯定断开功能的速动触点 2 pairs of quick action contacts with positive disconnect function	N/C+N/O,NC+NC
	3 对带肯定断开功能的速动触点 3 Pairs of quick action contacts with a positive disconnect function	"N/C + N/C +N/O N/C + N/O +N/O"
	C/O 速动触点 C/O quick action contact	2C/O
	C/O 慢动触点 C/O slow acting contact	
	2 对带肯定断开功能的慢动触点 2 pairs of slow moving contacts with a positive disconnect function	N/C +N/O 先断后合 N/O +N/C N/C +N/O breaks before joining N/O +N/C
		先合后分 N/C +N/C 同步 synchronization
	2 对慢动触点 2 pairs of slow acting contacts	N/O +N/O 同步 N/O +N/O synchronization
	3 对带肯定断开功能的慢动触点 3 Pairs of slow moving contacts with a positive disconnect function	"N/C + N/C +N/O 先断后合 N/C + N/O +N/O 先断后合 " "N/C + N/C +N/O Break first and then close N/C + N/O +N/O Break first and then close"
绝缘电压 (Ui)/ 发热电流 (Ithe) Insulation voltage (Ui)/ Heating current (Ithe)		" 螺钉端子 2 对触点 :500V/10A 3 对触点 :400V/6A" "Screw terminal 2 contacts :500V/10A 3 contacts :400V/6A"
防护等级 IP/IK Protection level IP/IK		IP 66 IK07
连接 connect	螺钉端子 Screw terminal	1 个 ISO M20 或 Pg 13 或 1/2" NPT 电缆进线孔 Cable inlet hole
	接头 splice	集成 M12 或 7/8"16UN Integrated M12 or 7/8"16UN

行程开关系列 TRAVEL SWITCH

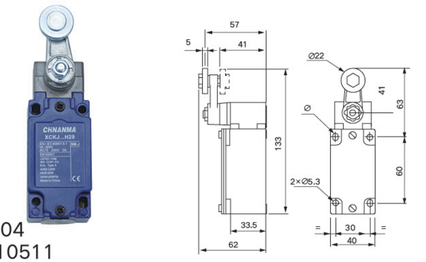
NM-J111
XCK-J161



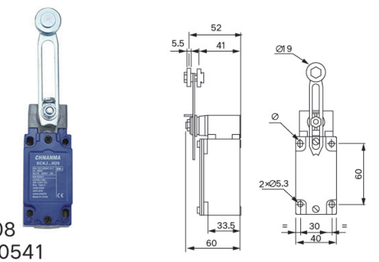
NM-J112
XCK-J167



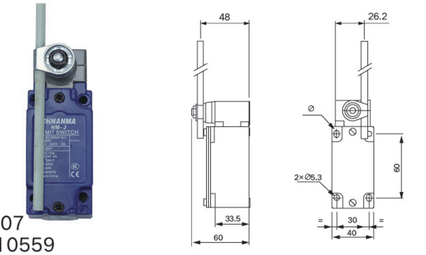
NM-J104
XCK-J10511



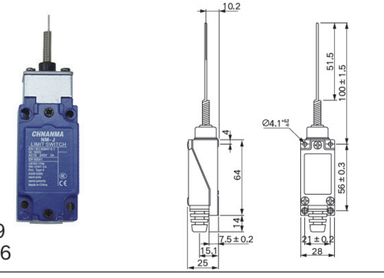
NM-J108
XCK-J10541



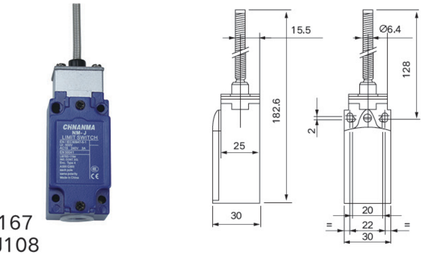
NM-J107
XCK-J10559



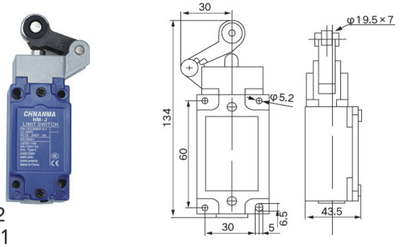
NM-J169
XCK-J106



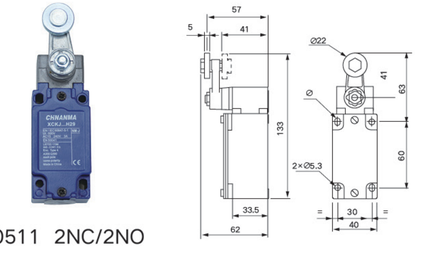
NM-J167
XCK-J108



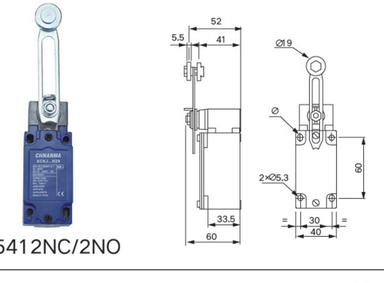
NM-J122
XCK-J121



NM-J20511 2NC/2NO



NM-J205412NC/2NO



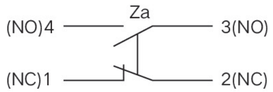


NM-P 行程开关 Limit Switch

特点 Features

◎ 经济塑料型
◎ 不锈钢滚轮，冲头及弹簧
◎ 特大 ±95 ° 摇管摆幅
◎ 导管连接器尺寸标配 M20×1.5
◎ Economical & plastic tgpe
◎ Stainless steel roller, punch and spring
◎ Swing amplitude, extra large ± 95 °
◎ M20x1.5 cable gland that can be equipped

接触形式 Contact form



规格 Specifications

双断开机械功用 Double Break Mechanism	INO+INC Force Break snap action 强迫断开快速机芯
额定电压 / 电流 Rated Voltage/Current	10(4)A, 125, 250VAC/6(2)A, 380VAC Forinductance Load, Cosφ=0.4
接触电阻 Contact Resistance	25m Ω max. (initial value)
绝缘电阻 Insultation Resistance	100m Ω min.(at 500VDC)
电介强度 Dielectric Strength	1000VAC, 50/60 Hz for 1 minute between terminals of the same polaritg
	电气寿命 Electrical Life
	机械寿命 Mechanical Life
电气寿命 Electrical Life	500,000 at 10A 250VAC Resistive
机械寿命 Mechanical Life	10,000,000 operations min.(under rated conditions)
操作速度 Operating Speed	5mm/s to 0.5m/s
防水防尘能力 Degree of Protection	IP65
上升温度 Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current
合乎标准 Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660
操作温度 Operating Temperature	-5℃ ~+65℃ (with no icing)
保存温度 Storage Temperature	-5℃ ~+65℃ (with no icing)
湿度 Ambient Operating Humditg	95% RH Max.
冲击系数 Shock Resistance	Mechanicaldurable: 1000m/s2, min
	其他螺丝扭力 Other Screw Torsional Force
振动频率 Vibration Frequencg	Malfunction: 10 t0 55Hz, 1.5mm double amplitude
端子螺丝扭力 Terminal Screw Torsional Force	6-8 kgf-cm
其他螺丝扭力 Other Screw Torsional Force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgf/cm
裸铜线尺寸 Bare Wire Diameter	Φ2 Max
电缆尺寸 Cable Diameter	Φ12 Max

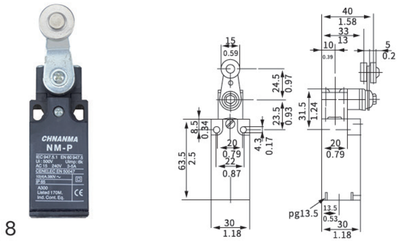
注：带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。
Note: Product with spring, its usoble ronge of operating part is within one third of the whole spring length from the front end of spring

动作特性 Operating Characteristics

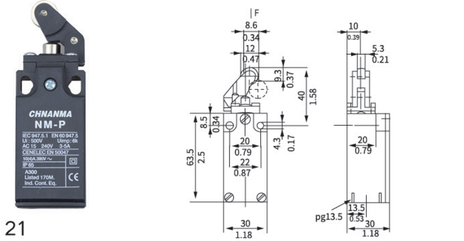
动作特性 Operating Characteristics	型号 Model	101 301	103 303	111 311	121 321	127 327	131 331	161 361	171 371	181 381	191 391
操作力 Operating force	OF 最大 (Max)	6.86N	6.86N	6.86N	4.9N	6.86N	4.9N	0.98N	0.98N	0.98N	4.9N
回弹力 Release force	RF 最小 (Min)	1.96N	1.96N	1.96N	0.98N	1.96N	0.98N	0.392N	0.392N	0.392N	0.98N
前预行程 Pre-travel	PT 最大 (Max)	1.8mm	1.8mm	1.8mm	20 °	1.8mm	20 °	30mm	30mm	30mm	20 °
触发位置 Tripping position	TP±10%	2.0mm	2.0mm	2.0mm	22.5 °	2.0mm	22.5 °	22.5 °	22.5 °	22.5 °	22.5 °
行程移动分辨率 Movement differential	MD 最大 (Max)	1.2mm	1.2mm	1.2mm	10 °	1.2mm	10 °	14 °	14 °	14 °	10 °
触后行程 Over travel	OT 最小 (Min)	4.0mm	4.0mm	4.0mm	75 °	4.0mm	75 °	20mm	20mm	20mm	75 °
累积总行程 Total travel	TT 最小 (Min)	5.8mm	5.8mm	5.8mm	95 °	5.8mm	95 °	50mm	50mm	50mm	95 °
摇臂转换分角度 Rotarg indexing					22.5 °		22.5 °				22.5 °

行程开关系列 TRAVEL SWITCH

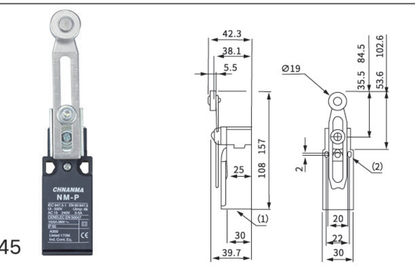
NM-P118



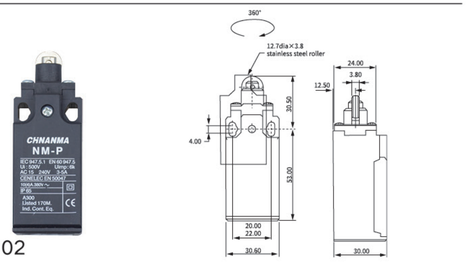
NM-P121



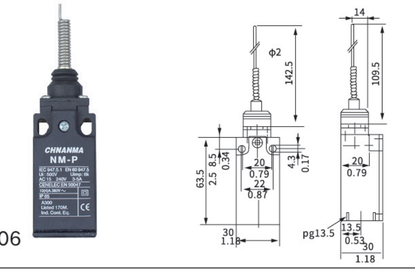
NM-P145



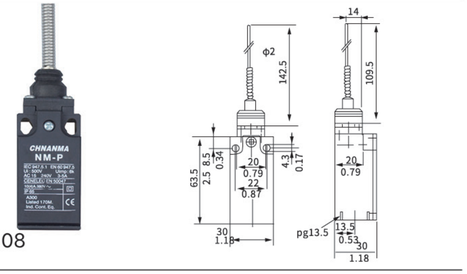
NM-P102



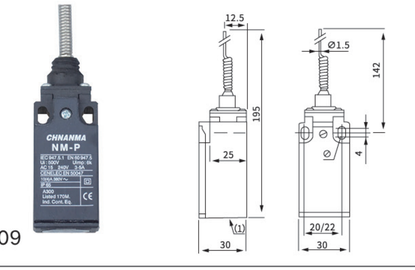
NM-P106



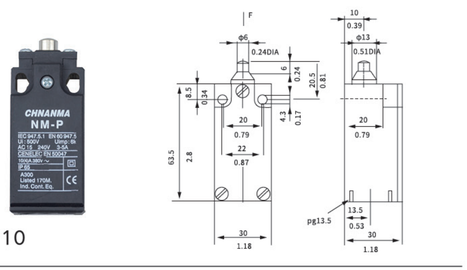
NM-P108



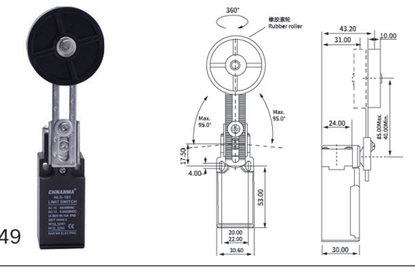
NM-P109



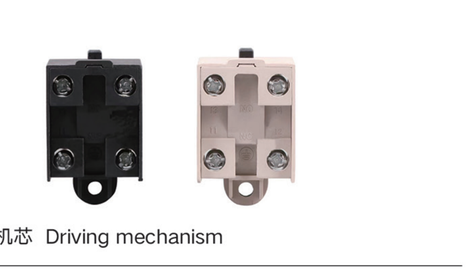
NM-P110



NM-P149



NM-P 机芯 Driving mechanism



CHNANMA®



XCK-M 行程开关 Limit Switch

特点 Features

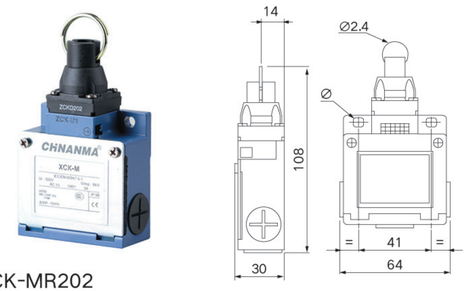
◎ 欧洲标准产品 (EN50047) 带有肯定断开触头，甚至还有可以用于安全领域的快速操作型产品。
◎ XCKM(3 个电缆接口) 和 XCXL(1 个电缆接口) 是多功能中型金属机身产品更好的理想选择。
◎ 很适合空间比较局促，操作环境恶劣的机器。
◎ The European standard product (EN50047) comes with a sure break contact, and there are even fast operating products that can be used in the field of safety.
◎ XCKM(3 cable interfaces) and XCXL(1 cable interface) are ideal for versatile medium metal body products.
◎ It is suitable for machines with cramped space and harsh operating environment.

规格 /Specification

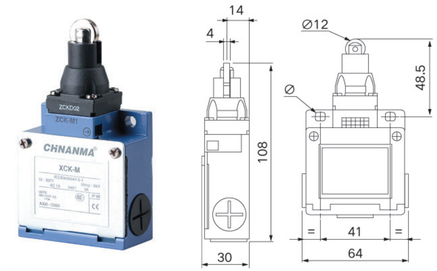
型式 type		紧凑型优化 Compact optimization
外壳 shell		金属 metal
多部件组合开关 Multi-component combination switch		操作头 + 本体 + 触点模块 Operating head + body + contact module
本体尺寸 Body size(W*H*D) mm		63*64*30
操作头 Operating head		线性运动 (直动) 转动 (摇杆) 转动，万向 Linear motion (direct motion) rotation (rocker) rotation, universal
触点模块	2 对带肯定断开功能的速动触点 2 pairs of quick action contacts with positive disconnect function	N/C+N/O,NC+NC
	3 对带肯定断开功能的速动触点 3 Pairs of quick action contacts with a positive disconnect function	"N/C + N/C +N/O N/C + N/O +N/O"
	C/O 速动触点 C/O quick action contact	
	C/O 慢动触点 C/O slow acting contact	
	2 对带肯定断开功能的慢动触点 2 pairs of slow moving contacts with a positive disconnect function	N/C +N/O 先断后合 N/O +N/C N/C +N/O breaks before joining N/O +N/C
		先合后分 N/C +N/C 同步 synchronization
	2 对慢动触点 2 pairs of slow acting contacts	N/O +N/O 同步 N/O +N/O synchronization
	3 对带肯定断开功能的慢动触点 3 Pairs of slow moving contacts with a positive disconnect function	"N/C + N/C +N/O 先断后合 N/C + N/O +N/O 先断后合 " "N/C + N/C +N/O Break first and then close N/C + N/O +N/O Break first and then close"
绝缘电压 (Ui)/ 发热电流 (Ithe) Insulation voltage (Ui)/ Heating current (Ithe)		" 螺钉端子 2 对触点 :500V/10A 3 对触点 :400V/6A" "Screw terminal 2 contacts :500V/10A 3 contacts :400V/6A"
防护等级 IP/IK Protection level IP/IK		IP 66 IK05
连接 connect	螺钉端子 Screw terminal	1 个 ISO M20 或 Pg 13 或 1/2" NPT 电缆进线孔 Cable inlet hole

行程开关系列 TRAVEL SWITCH

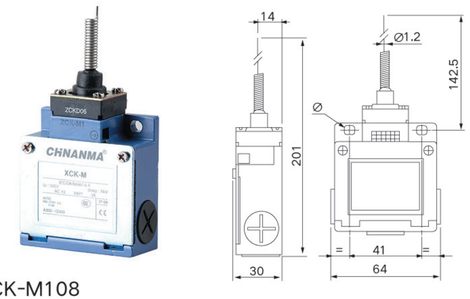
XCK-MR202



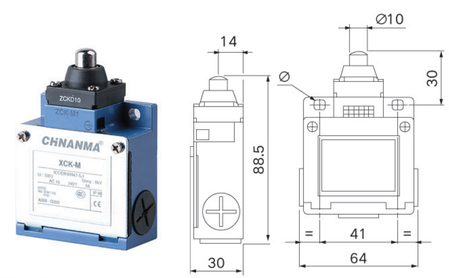
XCK-M102



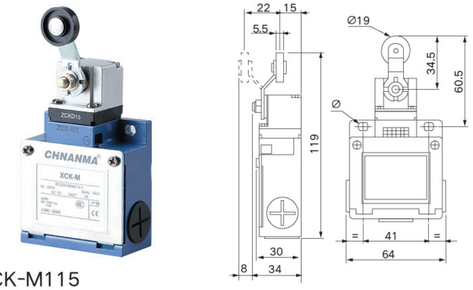
XCK-M108



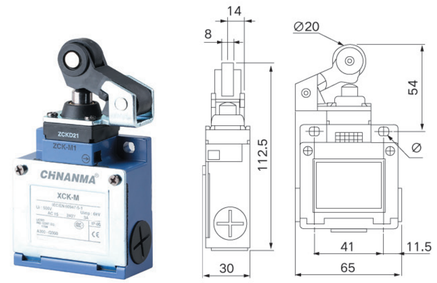
XCK-M110



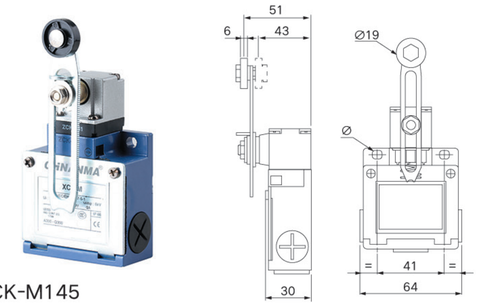
XCK-M115



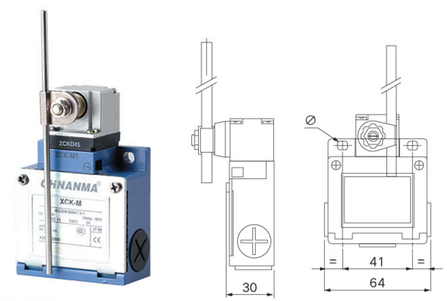
XCK-M121



XCK-M145



XCK-M155





NM-XCKN 行程开关 Limit Switch

特点 Features

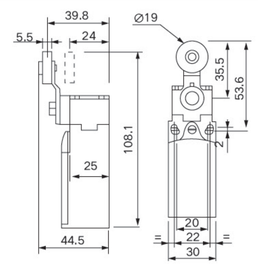
◎ 欧洲标准产品 (EN50047) 带有肯定断开触头，甚至还有可以用于安全领域的快速操作型产品。
◎ XCKN 整体塑料型产品用于重复操作型机器。
出色的经典型 Telemecanique 型系列产品在全球广受欢迎
◎ 很适合空间比较局促，操作环境恶劣的机器。
◎ The European standard product (EN50047) comes with a sure break contact, and there are even fast operating products that can be used in the field of safety.
◎ XCKN integral plastic products are used for repetitive operation machines.
◎ The excellent Telemecanique series is popular all over the world It is suitable for machines with cramped space and harsh operating environment.

规格 /Specification

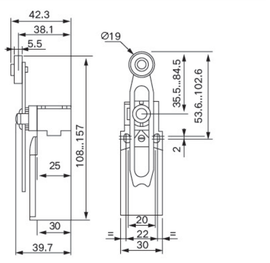
型号 Model number		XCK-N
型式 type		紧凑型优化 Compact optimization
外壳 shell		塑料，双绝缘 Plastic, double insulated
特性 peculiarity		本体固定 Body fixation
Osiconcept 模块化 modularization		
CENELEC 标准符合性 Standard compliance		EN 50047
本体尺寸 Body size(W*H*D) mm		31*65*30
操作头 Operating head		线性运动 (直动) 转动 (摇杆) 转动，万向 Linear motion (direct motion) rotation (rocker) rotation, universal
触点模块 Contact module	2 对带肯定断开功能的速动触点 2 pairs of quick action contacts with positive disconnect function	N/C+N/O,NC+NC
	3 对带肯定断开功能的速动触点 3 Pairs of quick action contacts with a positive disconnect function	
	4 对带肯定断开功能的速动触点 4 Pairs of quick action contacts with a positive disconnect function	
	2 对带肯定断开功能的慢动触点 2 pairs of slow moving contacts with a positive disconnect function	N/C+N/O,NC+NC
	2 对慢动触点 2 pairs of slow acting contacts	
	3 对带肯定断开功能的慢动触点 3 Pairs of slow moving contacts with a positive disconnect function	
绝缘电压 (Ui)/ 发热电流 (Ithe) Insulation voltage (Ui)/ Heating current (Ithe)		螺钉端子 2 对触点 500 V/10A Screw terminal 2 pairs of contacts 500 V/10A
防护等级 IP/IK Protection level IP/IK		IP 65 IK04
连接 connect	螺钉端子 Screw terminal	1 个 ISOM20 或 Pg11 电缆进线孔 Cable inlet hole

行程开关系列 TRAVEL SWITCH

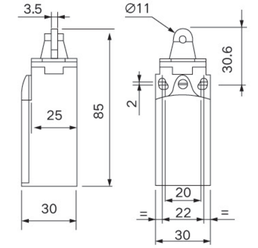
NMXCKN2118



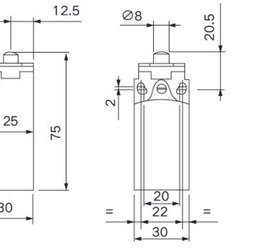
NMXCKN2145



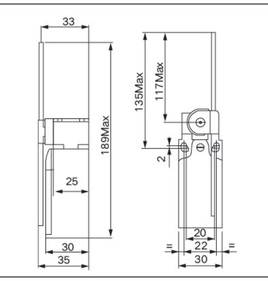
NMXCKN2102



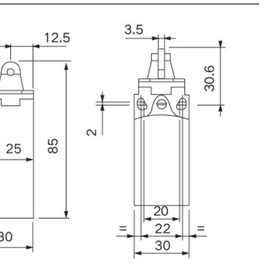
NMXCKN2110



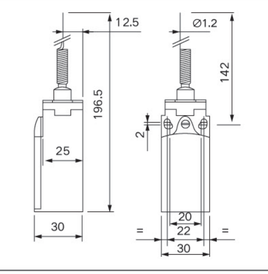
NMXCKN2153



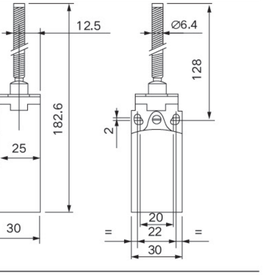
NMXCKN2103



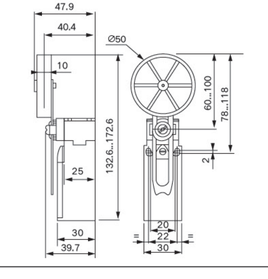
NMXCKN2106



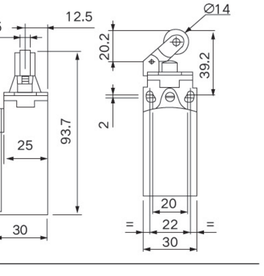
NMXCKN2108



NMXCKN2149



NMXCKN2121



CHINANMA®



可加装编码器
Encoder can be added

QGX 起升高度限位器
Lifting height stopper

型号说明 Model Number Structure

QGX - □
① ②

代号 Code	说明 Description
QGX	起升高度限位器 Lifting height stopper
□	A(1:40)、B(1:80)、C(1:120) 标准传动比序号 Standard gear ratio serial number

概述 Summary

适用于各类起重机，用于限制起升高度的先进安全保护装置。本限制器采用蜗轮蜗杆带动，凸轮触发限位开关的工作原理，具有重量轻、体积小、安装调试方便、响应灵敏准确、平稳可靠、使用寿命长等优点，一般可对上升下降和设报警限位和保护限位两道保护并能与老式电线杆结构高度限制器进行互换。

Advanced safety protection device for limiting lifting height for all types of cranes. The limiter is driven by worm gear and the working principle of cam-triggered limit switch. It has the advantages of light weight, small volume, convenient installation and debugging, sensitive and accurate response, stable and reliable, long service life, etc. Generally, it can be used to rise and fall and set alarm limit and protection limit and can be interchanged with the old pole structure height limiter.

产品特性 Product characteristics

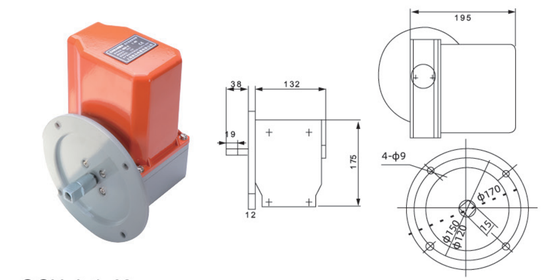
范围限于控制旋转机件：起重机吊索缠索轮，卷场机，滚筒等。
类旋转机件提供一个微型调整工具可依据不同要求分别开启或闭合触点，DXZ-3G 系列配有一个使用编码器的同心轴，带有滚球轴承的镀锌涡轮带有固定在滚球轴承上的不锈钢中心轴的控制凸轮及调节螺丝带有 N16L 电缆夹的 2 个接线口

The scope is limited to control rotating machinery: crane sling winding wheel, field winder, drum, etc.
The DXZ-3G series is equipped with a concentric shaft using an encoder, a galvanized turbine with a control CAM with a stainless steel center shaft fixed to the ball bearing, and 2 terminals with a regulation screw with an N16L cable clamp

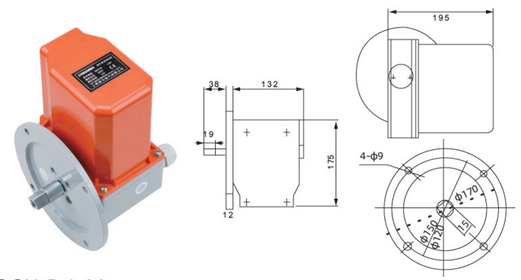
规格 Specifications

额定工作电压 Rated operating voltage	380V
额定工作电流 Rated working current	10A
工作范围 Scope of work	QGX-A 型适用于 5t~250t 起重机标准系列或非标准筒工圈数在 0~40 圈以内的起升机构上 QGX-A type is suitable for lifting mechanism of 5t~250t crane standard series or non-standard simple cycle number within 0~40 cycles
	QGX-B 型适用于 5t~250t 起重机标准系列或非标准筒工圈数在 0~80 圈以内的起升机构上 QGX-B type is suitable for lifting mechanism of 5t~250t crane standard series or non-standard barrel number within 0~80 turns
	QGX-C 型适用于 5t~250t 起重机标准系列或非标准筒工圈数在 0~120 圈以内的起升机构上 QGX-C type is suitable for lifting mechanism of 5t~250t crane standard series or non-standard barrel number within 0~120 turns

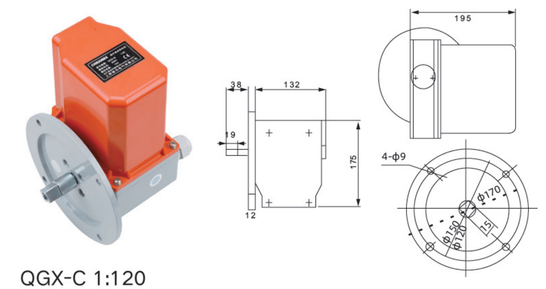
起升高度限位器 Lifting height stopper



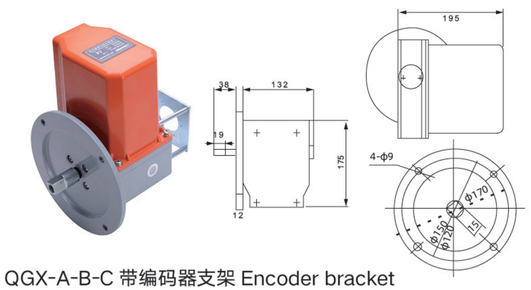
QGX-A 1:40



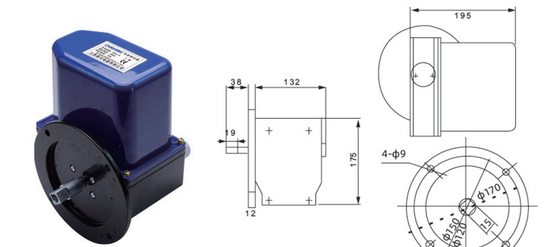
QGX-B 1:80



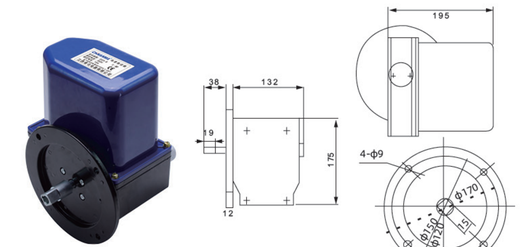
QGX-C 1:120



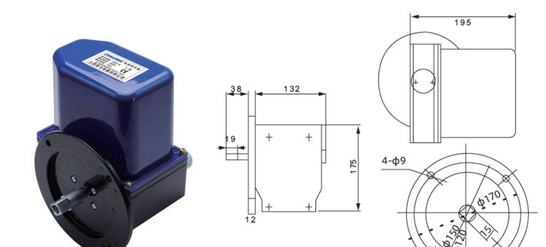
QGX-A-B-C 带编码器支架 Encoder bracket



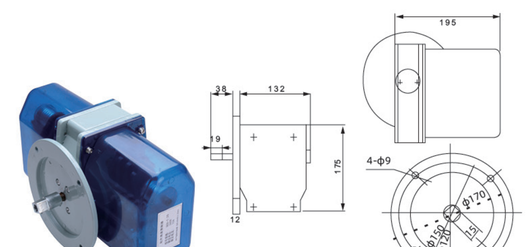
QGX-A



QGX-B



QGX-C



QGX-ABC 8NC/8NO

CHNANMA®



可加装编码器，可替代 QGX

Encoder can be added to replace QGX

DXZ 起升高度限位器（意大利 GG 款）

Lifting height stopper (Italian GG)

产品特性 Product characteristics

- ◎ 认证 CE
- ◎ 1NC+1ND 切换开关
- ◎ 银合金自动清晰触点
- ◎ 额定绝缘电压为 Ui250V
- ◎ 额定发热电流为 8A
- ◎ 电阻负荷 Ie 8A-250V ac
- ◎ 电感负载 Ie 3A-250V ac
- ◎ 工作温度 -25℃ +70℃
- ◎ 防护等级：IP65
- ◎ 电器控制 4 个回路

- ◎ Certified CE
- ◎ 1NC+1ND switch
- ◎ Silver alloy automatic clear contact
- ◎ The rated insulation voltage is Ui250V
- ◎ The rated heating current is 8A
- ◎ Resistance load Ie 8A-250V ac
- ◎ Inductive load Ie 3A-250V ac
- ◎ Operating temperature -25℃ +70℃
- ◎ Protection class: IP65
- ◎ The appliance controls 4 circuits

产品特性 Product characteristics

范围限于控制旋转机件：起重机吊索缠索轮，卷场机，滚筒等。

类旋转机件提供一个微型调整工具可依据不同要求分别开启或闭合触点，DXZ-3G 系列配有一个使用编码器的同心轴，带有滚球轴承的镀锌涡轮带有固定在滚球轴承上的不锈钢中心轴的控制凸轮及调节螺丝带有 N16L 电缆夹的 2 个接线口

The scope is limited to control rotating machinery: crane sling winding wheel, field winder, drum, etc.

The DXZ-3G series is equipped with a concentric shaft using an encoder, a galvanized turbine with a control CAM with a stainless steel center shaft fixed to the ball bearing, and 2 terminals with a regulation screw with an N16L cable clamp

工作原理 Working principle

当施工升降机吊笼向上运行时，行程开关上的小滚轮处于凸凹式拉条的凹点——通电位置。当升降机出现机械故障或操作者误操作时，吊笼一直上升至极限高度，即起升高度限位器设定高度处，由于吊笼横梁牵动细钢丝绳及凸凹式拉条，同时，行程开关上的小滚轮因受外力作用上移至凸凹式拉条的凸处，小滚轮从口点通电位置移动到凸点，使行程开关断电，切断上行电源，卷扬机电动机停止运转，使吊笼停止运行。手动起升高度限位器的凸凹式拉条，使行程开关上的小滚轮从凸点复位至凹点通电位置，即可使吊笼启动。

When the construction lift cage runs upward, the small roller on the travel switch is in the concave point of the convex and concave tie - the power position. When there is a mechanical failure or operator error, the lifting cage has been rising to the limit height, that is, the lifting height limit set height, because the lifting cage beam pulls the fine wire rope and the convex and concave brace, at the same time, the small roller on the stroke switch moves to the convex and concave brace due to external force, the small roller moves from the port point power position to the convex point, so that the stroke switch is powered off. Cut off the upstream power supply, the motor of the hoist stops running, and the lifting cage stops running. By manually lifting the convex and concave brace of the height limit, the small roller on the travel switch is reset from the convex point to the power position of the concave point, and the lifting cage can be started.

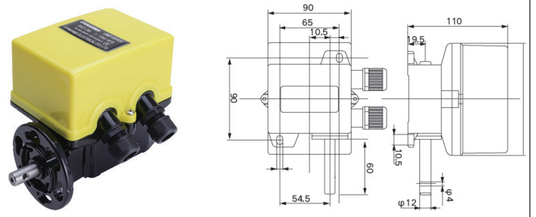
标准传动比序号表 Standard Drive Ratio

序号比 Ordinal ratio	1	2	3	4	5	6	7	8	9	10
传动比 Gear ratio	1:17	1:20	1:25	1 :30	1:33	1:50	1:80	1:100	1:150	1:200

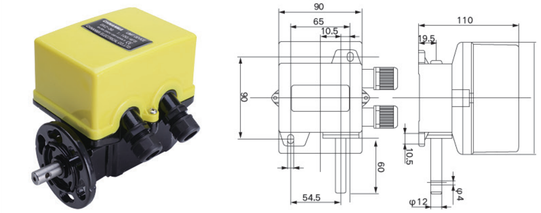
非标准传动比 Non Standard Transmission Ratio

传动比 Gear ratio	1:20	1:26	1:30	1:35	1:87	1:105	1:135	1:140
	1:160	1:188	1:247	1:330	1:360	1:453	1:480	1:660

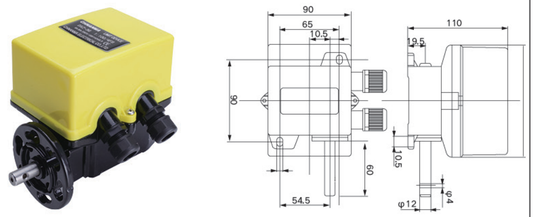
起升高度限位器 Lifting height stopper



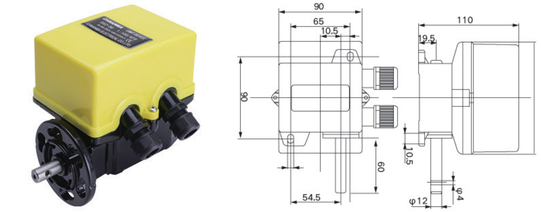
DXZ-3G 1:17



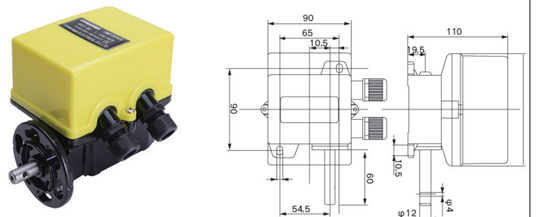
DXZ-3G 1:20



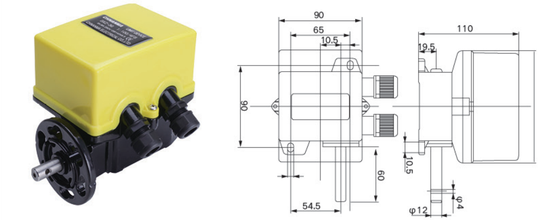
DXZ-3G 1:30



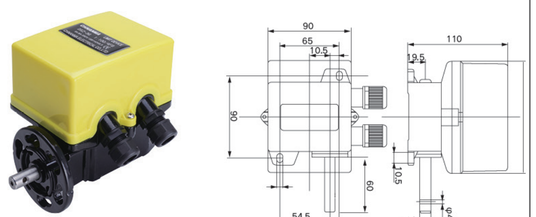
DXZ-3G 1:50



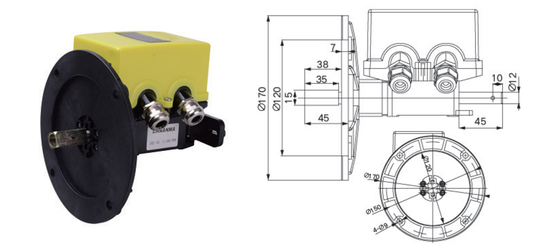
DXZ-3G 1:100



DXZ-3G 1:150



DXZ-3G 6/F 6NC/6NO



DXZ-3G/F 大法兰 Grand Flange

CHNANMA®



可替代意大利 GG 款
Can replace Italian GG model

DXZ-6N 起升高度限位器
Lifting height stopper

产品特性 Product characteristics

- ◎ 认证 CE
- ◎ 1NC+1ND 切换开关
- ◎ 银合金自动清晰触点
- ◎ 额定绝缘电压为 Ui250V
- ◎ 额定发热电流为 8A
- ◎ 电阻负荷 Ie 8A-250V ac
- ◎ 电感负载 Ie 3A-250V ac
- ◎ 工作温度 -25℃ +70℃
- ◎ 防护等级：IP65
- ◎ 电器控制 4 个回路

- ◎ Certified CE
- ◎ 1NC+1ND switch
- ◎ Silver alloy automatic clear contact
- ◎ The rated insulation voltage is Ui250V
- ◎ The rated heating current is 8A
- ◎ Resistance load Ie 8A-250V ac
- ◎ Inductive load Ie 3A-250V ac
- ◎ Operating temperature -25℃ +70℃
- ◎ Protection class: IP65
- ◎ The appliance controls 4 circuits

产品概述 Product overview

多功能转角式限位器 DXZ-6N 系引进国外最新技术的基础上，自主研发的一款新型限位器。产品质量稳定，深受广大客户的信赖 DXZ-6N 限位器广泛适用于塔机起重机、港机、舞台设备，船舶设备，传动机械的控制和限位。具有体积小、性能优、灵敏度高，狭小空间调整方便等特点。

DXZ-6N is a new type of multi-function corner stop based on the introduction of the latest foreign technology. Product quality is stable, deeply trusted by the majority of customers DXZ-6N stopper widely used in tower crane, port machinery, stage equipment, Marine equipment, transmission machinery control and limit. It has the characteristics of small volume, excellent performance, high sensitivity and convenient adjustment in narrow space.

工作原理 Working principle

当施工升降机吊笼向上运行时，行程开关上的小滚轮处于凸凹式拉条的凹点——通电位置。当升降机出现机械故障或操作者误操作时，吊笼一直上升至极限高度，即起升高度限位器设定高度处，由于吊笼横梁牵动细钢丝绳及凸凹式拉条，同时，行程开关上的小滚轮因受外力作用上移至凸凹式拉条的凸处，小滚轮从口点通电位置移动到凸点，使行程开关断电，切断上行电源，卷扬机电动机停止运转，使吊笼停止运行。手动起升高度限位器的凸凹式拉条，使行程开关上的小滚轮从凸点复位至凹点通电位置，即可使吊笼启动。

When the construction lift cage runs upward, the small roller on the travel switch is in the concave point of the convex and concave tie - the power position. When there is a mechanical failure or operator error, the lifting cage has been rising to the limit height, that is, the lifting height limit set height, because the lifting cage beam pulls the fine wire rope and the convex and concave brace, at the same time, the small roller on the stroke switch moves to the convex and concave brace due to external force, the small roller moves from the port point power position to the convex point, so that the stroke switch is powered off. Cut off the upstream power supply, the motor of the hoist stops running, and the lifting cage stops running. By manually lifting the convex and concave brace of the height limit, the small roller on the travel switch is reset from the convex point to the power position of the concave point, and the lifting cage can be started.

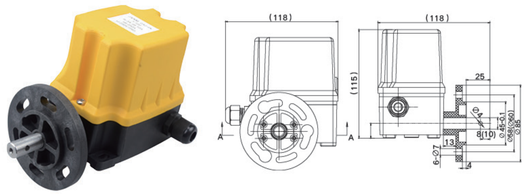
标准传动比序号表 Standard Drive Ratio

序号比 Ordinal ratio	1	2	3	4	5	6	7
传动比 Gear ratio	1:8	1:10	1:15	1 :20	1:25	1:30	1:50

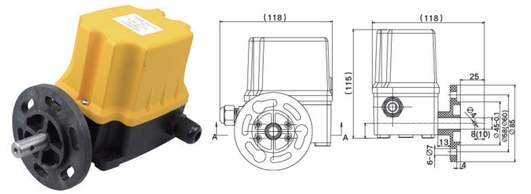
非标准传动比 Non Standard Transmission Ratio

传动比 Gear ratio	1:20	1:26	1:30	1:35	1:87	1:105	1:135	1:150
	1:160	1:188	1:247	1:330	1:360	1:453	1 : 480	1:660

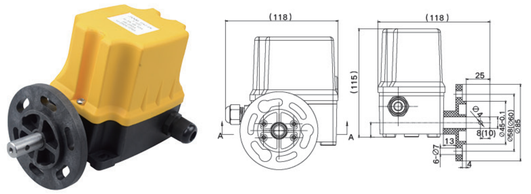
起升高度限位器 Lifting height stopper



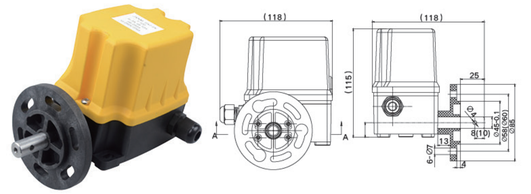
DXZ-6N 1:15



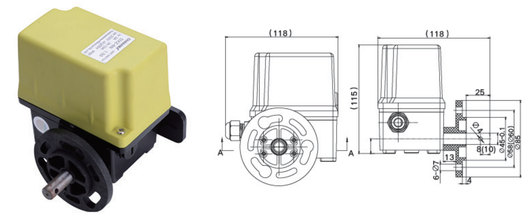
DXZ-6N 1:25



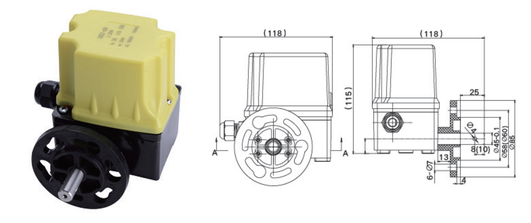
DXZ-6N 1:30



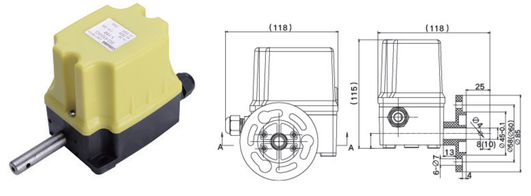
DXZ-6N 1:50



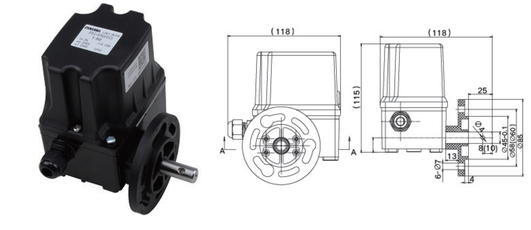
DXZ-6N



DXZ-6N 传动轴横置 Drive shaft transverse

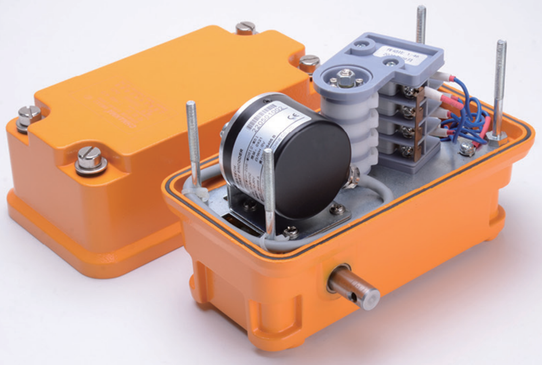


DXZ-6N 传动轴竖置 The drive shaft is erected



DXZ-6N-G01

CHNANMA®



高精度带编码器
High precision tape encoder

NMDXZ 起升高度限位器
Lifting height stopper

概述 Summary

本产品可广泛应用于建筑、港口、矿山等行业的起重、传输机械的之余间三座标的控制和限位。具有体积小、功能多、精度高、限位可调、通用性强及维护安装和使用调整方便等优点。限位器采用可调试机械记忆结构，具有性能可靠、灵敏高度等特点。

This product can be widely used in construction, port, mining and other industries of lifting, transmission machinery in the rest of the three coordinate control and limit. It has the advantages of small volume, multiple functions, high precision, adjustable limit, strong versatility, easy maintenance, installation and use adjustment. The stopper adopts the structure of adjustable mechanical memory and has the characteristics of reliable performance, high sensitivity and so on.

型号及含义 Model And Meaning

NM DXZ - 1 □□□

- W 电位器 B 编码器 W Potentiometer B encoder
- 标准传动比 Standard gear ratio
- 标准控制回路 Standard control loop
- 限位开关 Limit switch
- 南马 Nanma

技术参数 Technical Parameter

工作环境 Working environment	-20 +80 度	电压 Voltage	380V
相对湿度 Relative humidity	≤ 90%	额定电流 Rated current	6A
海拔高度 Altitude	≤ 2500m	控制回路 Control loop	4 回路 -loop

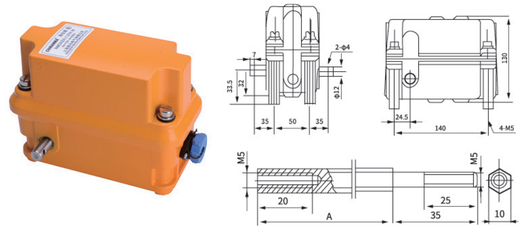
标准传动比序号表 Standard Drive Ratio

序号比 Ordinal ratio	1	2	3	4	5	6	7	8
传动比 Gear ratio	1:13	1:17	1:46	1 :60	1:78	1:210	1:274	1:960

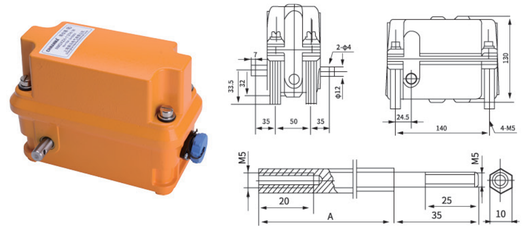
非标准传动比 Non Standard Transmission Ratio

传动比 Gear ratio	1:20	1:26	1:30	1:35	1:87	1:105	1:135	1:140
	1:160	1:188	1:247	1:330	1:360	1:453	1:480	1:660

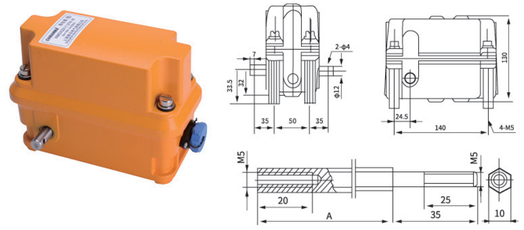
起升高度限位器 Lifting height stopper



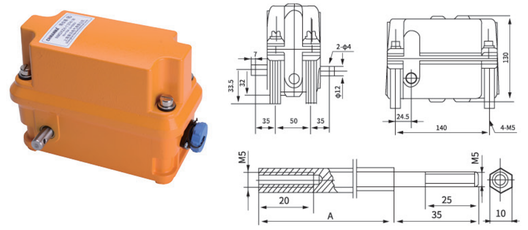
NMDXZ 1:13



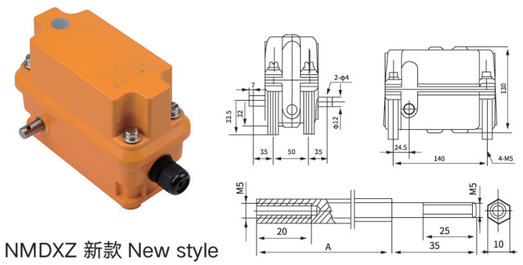
NMDXZ 1:17



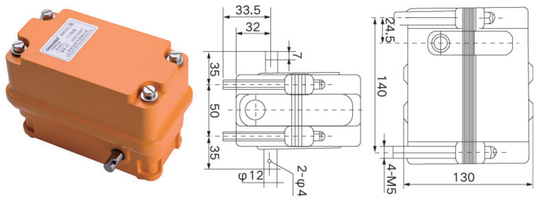
NMDXZ 1:46



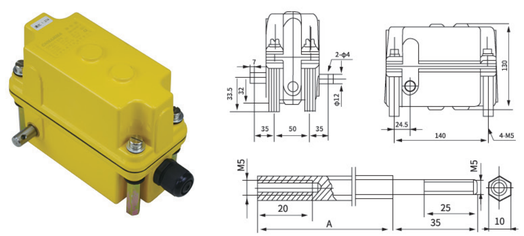
NMDXZ 1:60



NMDXZ 新款 New style



NMDXZ 新款带编码器 New tape encoder



DXZ 老款 Old model



十字联轴器 Cross coupling

十字联轴器 Cross coupling

万向节 Cardan joint

DXZ 联轴器 coupling



FCR/NKL/DXZ 十字限位开关 Cross limit switch

产品说明 Product description

DXZ(FCR)001、DXZ(FCR)006，带有 3-5 个闷门的 300mm 推杆的旋转控制开关，带有 12 到 200 转数 / 分钟的有 4 或者 6 个微型开关的旋转齿轮的控制开关。可分为正反 90 度旋转与正反 180 度旋转开关触点采用 AgCdo 材料，触电容量大，使用寿命长。结构件为 PA66 工程塑料阻燃材料。适用于起重机、行车、矿山机械，吊车等领域。

DXZ(FCR)001, DXZ(FCR)006, rotary control switches with 300mm push rods with 3 to 5 closed doors, control switches with rotary gears with 4 or 6 micro switches at 12 to 200 RPM. It can be divided into positive and negative 90 degree rotation and positive and 180 degree rotation switch contacts using AgCdo material, large electric shock capacity, long service life. The structural parts are PA66 engineering plastic flame retardant materials. Suitable for crane, crane, mining machinery, crane and other fields.

特点 Features

◎ 额定电压：最高 690V
◎ 额定电流：16A
◎ 防护等级：IP65
◎ 温度环境：-25~+70(℃)

◎ Rated voltage: up to 690V
◎ Rated current: 16A
◎ Protection class: IP65
◎ Temperature environment: -25~+70(℃)

结构形式 Structural form

描述Description	参考号 Reference number	电路图编号 Circuit diagram number
带有机械联锁阀位 适用于单速驱动控制 With mechanical interlocking valve position Suitable for single speed drive control	DXZ(FCR)001	1
带有机械联锁4阀位 适用于双速驱动控制 4 valve positions with mechanical interlocking Suitable for two-speed drive control	DXZ(FCR)006	2
	NKL-001	
	NKL-006	

电路图1 Circuit diagram1 带有机械联锁 With mechanical interlock

-90°	0°	+90°
1 1 1 / 2 2 2	1 1 1 / 2 2 2	1 1 1 / 2 2 2
3 3 3 / 4 4 4	3 3 3 / 4 4 4	3 3 3 / 4 4 4

单速001 Single speed 001

电路图2 Circuit diagram2 带有机械联锁 With mechanical interlock

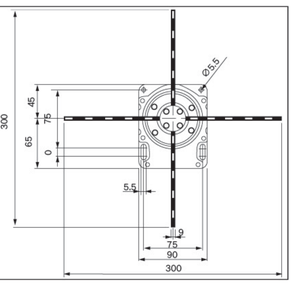
-180°	-90°	0°	+90°	+180°
5 1 / 6 2	5 1 / 6 2	5 1 / 6 2	5 1 / 6 2	5 1 / 6 2
7 3 / 8 4	7 3 / 8 4	7 3 / 8 4	7 3 / 8 4	7 3 / 8 4

双速006 Two-speed 006

十字开关 Cross switch

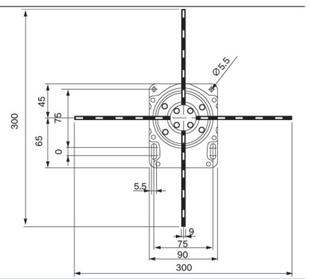


DXZ-001





DXZ-006



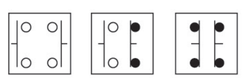
NMR(SC-1) 主令开关 Master switch



特点 Features

◎ 上、下、左、右四方向操作顺畅，具可任意选择一向、二向、三向、或四向
◎ 有保持、复位、无动作等三种操作方式
◎ 接点座有 2a(BR-1),1a1b(BR-2),2b(BE-3)。如下图可自由选择方向与接点之组合
◎ 具耐油、防水和防压结构

◎Smoothly and swiftly handle the lever in four directions upward, rightward, downward, and leftward
◎Three alternatives of movement are attainable in each direction：Go-on, auto-return, and blockade-enforcing
◎Operate in four, three, or two directions with the switch
◎Rubber bushing is water-proof, oil-resistant, and dustpreventive



BR-1 BR-2 BR-3

型号说明 Model Number Structure

CSK - 30 2 - 2 2 2 2 10 10 10 10
① ② ③ ④ ⑤

项目 Items	代号 Code	说明 Description
①型式 Type	NMR	圆型 Round type
	NMS	方型 Square type
	NMRS	圆型 Round type
	NMRN	密封圆型 Seal Round
②固定孔径 Mounting Hole	30	φ30m/m only
③接点座数目 No.of contact Blocks fitted	1~4	1~4

Note: When you place order, please kindly designate clockwise the movement way and type of contact fitted.

项目 Items	代号 Code	说明 Description
④操作方式 Actuating keys	1	保持 Go-on
	2	复位 Auto-return
	0	无动作 Blockade-enforcing
⑤接点排列型式 Type of contact Blocks fitted	00	None
	10	1a(1NO)
	20	2a(2NO)
	01	1b(1NC)
	02	2b(2NC)
	11	1a1b(1NO-1NC)

额定值 Ratings

交流 AC	额定电压 Rated voltage		110V	220V	440V
	额定电流 Rated current		10A	6A	3A
	开断电流 Breaking current capacity		50A	30A	10A
直流 DC	电阻性负载 Resistance Load	额定电压 Rated voltage	110V	220V	600V
		额定电流 Rated Current	2.2A	1.1A	0.4A
		开断电流 Breaking Current	2.42A	1.21A	0.44A
	电感性负载 Inductive Load	额定电流 Rated Current	1.2A	0.45A	0.2A
		开断电流 Breaking Current	1.32A	0.5A	0.22A



XCKMR/VR 十字限位开关 Cross Limit Switch

特点 Features

◎ 欧洲标准产品 (EN50047) 带有肯定断开触头，甚至还有可以用于安全领域的快速操作型产品。
◎ 很适合空间比较局促，操作环境恶劣的机器。
◎ The European standard product (EN50047) comes with a sure break contact, and there are even fast operating products that can be used in the field of safety.
◎ It is suitable for machines with cramped space and harsh operating environment.

产品说明 Product description

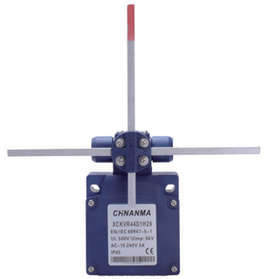
十字限位开关是用以限定机械设备的运动 K 限位置的电气开关。可以安装在相对静止的物体上或者运动的物体上。当动物接近静物时，开关的连杆驱动开关的接点引起闭合的接点分断或者断开的接点闭合。由开关接点开、合状态的改变去控制电路和机构的动作。

The cross limit switch is an electrical switch used to limit the motion K limit position of mechanical equipment. It can be installed on a relatively stationary object or on a moving object. When the animal approaches the still life, the connecting rod of the switch drives the switch contact, causing the closed contact to break or the open contact to close. The action of the circuit and mechanism is controlled by the change of the open and close state of the switch contact.

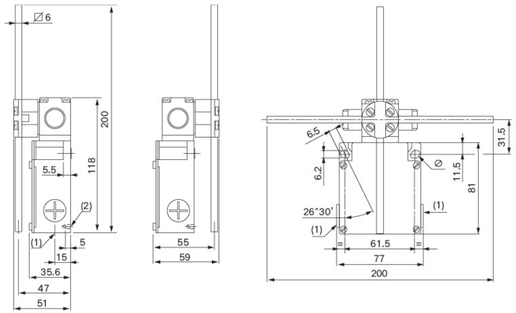
规格 /Specification

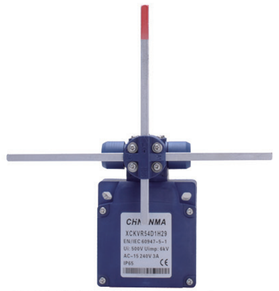
型号 Model number		XCK，XCK MR，XCK VR
型式 type		应用型 : 起重设备及装卸设备等恶劣应用场合 Applications: harsh applications such as lifting equipment and handling equipment
外壳 shell		金属或聚酯 Metal or polyester
模块化 modularization		头部，本体和连接部件的模块化 Modularization of the head, body and connecting parts
本体尺寸 Body size(W*H*D) mm		取决于型号 Depends on model
操作头 Operating head		线性运动 (直动)；转动 (摇杆)Linear motion (direct motion); turn
触点模块 Contact module	2 对带肯定断开功能的速动触点 2 pairs of quick action contacts with positive disconnect function	取决于型号 Depends on model
	3 对带肯定断开功能的速动触点 3 Pairs of quick action contacts with a positive disconnect function	
	C/O 速动触点 C/O quick action contact	取决于型号 Depends on model
	C/O 慢动触点 C/O slow acting contact	取决于型号 Depends on model
	2 对带肯定断开功能的慢动触点 2 pairs of slow moving contacts with a positive disconnect function	取决于型号 Depends on model
	2 对慢动触点 2 pairs of slow acting contacts	
	3 对带肯定断开功能的慢动触点 3 Pairs of slow moving contacts with a positive disconnect function	
绝缘电压 (Ui)/ 发热电流 (Ithe) Insulation voltage (Ui)/ Heating current (Ithe)		螺钉端子 2 对触点 ,500V/10A Screw terminal 2 pairs of contacts,500V/10A
防护等级 IP/IK Protection level IP/IK		根据型号不同 :IP66 IK05，IP65 IK05 或 IP54 IK05 Depending on the model :IP66 IK05, IP65 IK05 or IP54 IK05
连接 connect	螺钉端子 (电缆密封管进线孔)Screw terminal	根据型号不同 :1 个或 3 个 ISO M20 或 Pg13 电缆进线孔 Depending on the model :1 or 3 ISO M20 or Pg13 cable entry holes

十字限位开关 Cross Limit Switch

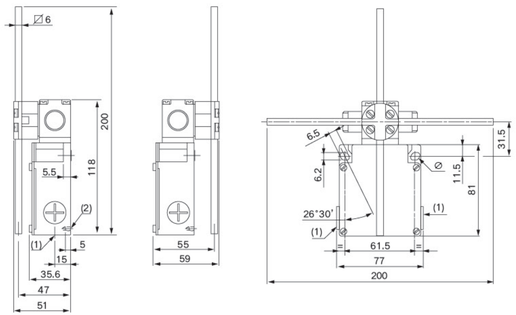


XCKMR44D1H29 (塑料 plastic)



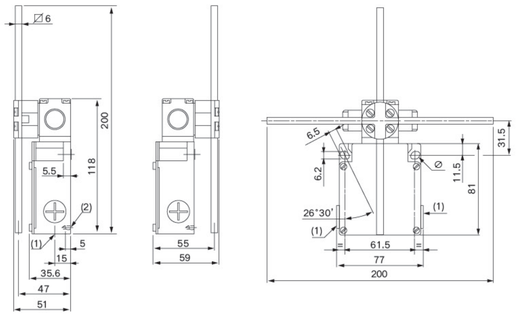


XCKVR54D1H29 (塑料 plastic)



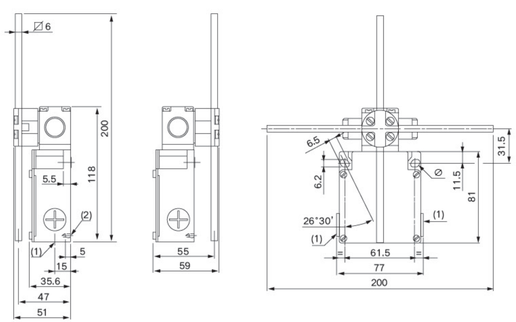


XCKVR44D1H29 (金属 metal)





XCKVR54D1H29 (金属 metal)





XCR 十字限位开关 Cross Limit Switch

特点 Features

◎ 欧洲标准产品 (EN50047) 带有肯定断开触头，甚至还有可以用于安全领域的快速操作型产品。
◎ 很适合空间比较局促，操作环境恶劣的机器。

◎ The European standard product (EN50047) comes with a sure break contact, and there are even fast operating products that can be used in the field of safety.
◎ It is suitable for machines with cramped space and harsh operating environment.

产品说明 Product description

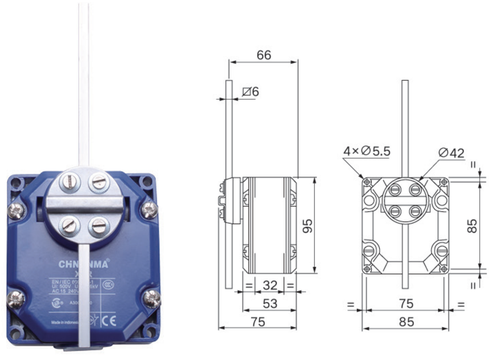
十字限位开关是用以限定机械设备的运动 K 限位置的电气开关。可以安装在相对静止的物体上或者运动的物体上。当动物接近静物时，开关的连杆驱动开关的接点引起闭合的接点分断或者断开的接点闭合。由开关接点开、合状态的改变去控制电路和机构的动作。

The cross limit switch is an electrical switch used to limit the motion K limit position of mechanical equipment. It can be installed on a relatively stationary object or on a moving object. When the animal approaches the still life, the connecting rod of the switch drives the switch contact, causing the closed contact to break or the open contact to close. The action of the circuit and mechanism is controlled by the change of the open and close state of the switch contact.

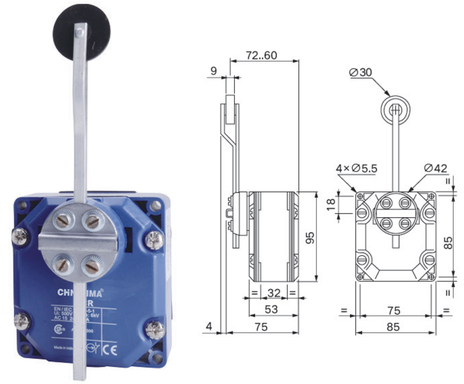
规格 /Specification

型号 Model number		XCR，XCK MR，XCK VR
型式 type		应用型 : 起重设备及装卸设备等恶劣应用场合 Applications: harsh applications such as lifting equipment and handling equipment
外壳 shell		金属或聚酯 Metal or polyester
模块化 modularization		头部，本体和连接部件的模块化 Modularization of the head, body and connecting parts
本体尺寸 Body size(W*H*D) mm		取决于型号 Depends on model
操作头 Operating head		线性运动 (直动)；转动 (摇杆)Linear motion (direct motion); turn
触点模块 Contact module	2 对带肯定断开功能的速动触点 2 pairs of quick action contacts with positive disconnect function	取决于型号 Depends on model
	3 对带肯定断开功能的速动触点 3 Pairs of quick action contacts with a positive disconnect function	
	C/O 速动触点 C/O quick action contact	取决于型号 Depends on model
	C/O 慢动触点 C/O slow acting contact	取决于型号 Depends on model
	2 对带肯定断开功能的慢动触点 2 pairs of slow moving contacts with a positive disconnect function	取决于型号 Depends on model
	2 对慢动触点 2 pairs of slow acting contacts	
	3 对带肯定断开功能的慢动触点 3 Pairs of slow moving contacts with a positive disconnect function	
绝缘电压 (Ui)/ 发热电流 (Ithe) Insulation voltage (Ui)/ Heating current (Ithe)		螺钉端子 2 对触点 ,500V/10A Screw terminal 2 pairs of contacts,500V/10A
防护等级 IP/IK Protection level IP/IK		根据型号不同 :IP66 IK05，IP65 IK05 或 IP54 IK05 Depending on the model :IP66 IK05, IP65 IK05 or IP54 IK05
连接 connect	螺钉端子 (电缆密封管进线孔)Screw terminal	根据型号不同 :1 个或 3 个 ISO M20 或 Pg13 电缆进线孔 Depending on the model :1 or 3 ISO M20 or Pg13 cable entry holes

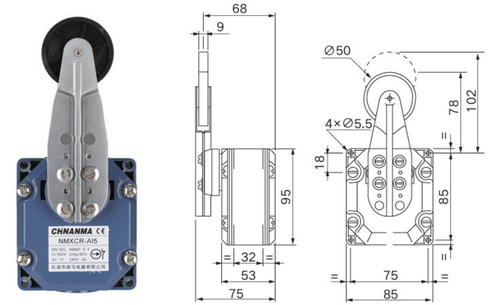
十字限位开关系列 Cross Limit Switch



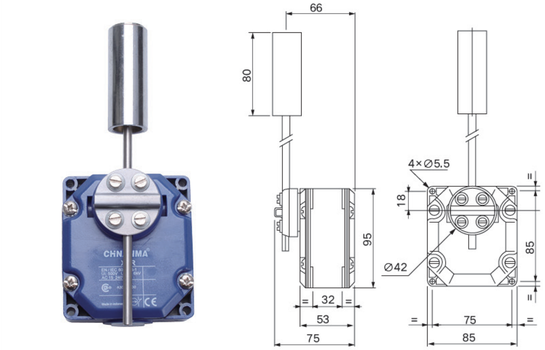
XCR-A11



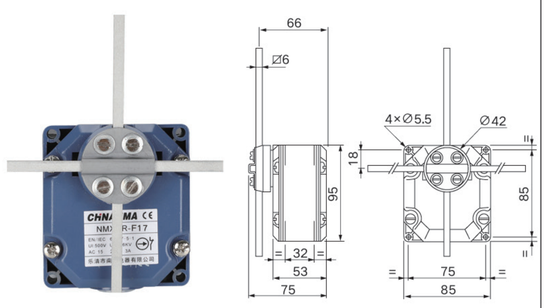
XCR-A12



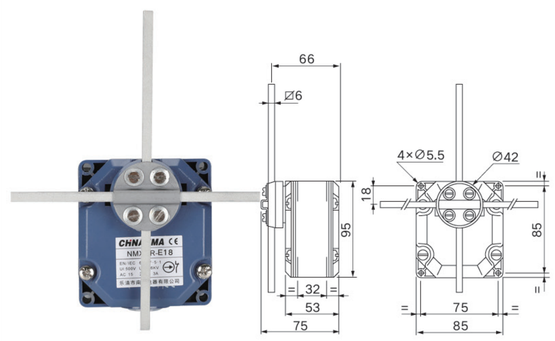
XCR-A15



XCR-T115



XCR-F17



XCR-E18

CHNANMA®

NMLX 小型起升高度限位器
Small lift height stopper



机械限位及电位器可选
Mechanical limit and potentiometer are optional

概述 Summary

本产品可广泛应用于建筑、港口、矿山等行业的起重、传输机械的之余间三座标的控制和限位。具有体积小、功能多、精度高、限位可调、通用性强及维护安装和使用调整方便等优点。限位器采用可调试机械记忆结构，具有性能可靠、灵敏高度等特点。

This product can be widely used in construction, port, mining and other industries of lifting, transmission machinery in the rest of the three coordinate control and limit. It has the advantages of small volume, multiple functions, high precision, adjustable limit, strong versatility, easy maintenance, installation and use adjustment. The stopper adopts the structure of adjustable mechanical memory and has the characteristics of reliable performance, high sensitivity and so on.

型号及含义 Model And Meaning

NM LX - 1 □□

- 标准传动比 Standard gear ratio
- 标准控制回路 Standard control loop
- 限位开关 Limit switch
- 南马 Nanma

技术参数 Technical Parameter

工作环境 Working environment	-20+45 度	电压 voltage	380V
相对湿度 Relative humidity	⩽ 90%	额定电流 Rated current	6A
海拔高度 Altitude	⩽ 2500m	控制回路 ontrol loop	2 回路 2-loop

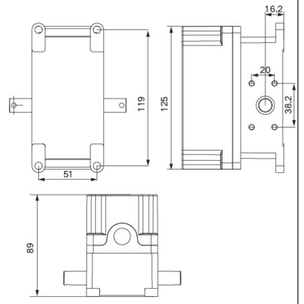
标准传动比序号表 Standard Drive Ratio

序号比 Ordinal ratio	1	2	3	4	5	6	7	8	9	10	11
传动比 Gear ratio	16	24	48	65	91	130	195	240	325	528	715

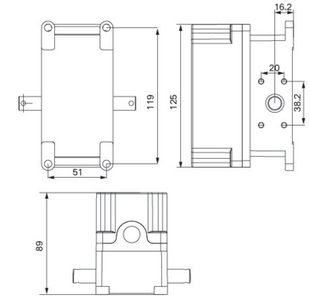
非标准传动比 Non Standard Transmission Ratio

传动比 Gear ratio	1:20	1:26	1:30	1:35	1:87	1:105	1:135	1:140
	1:160	1:188	1:247	1:330	1:360	1:453	1:480	1:660

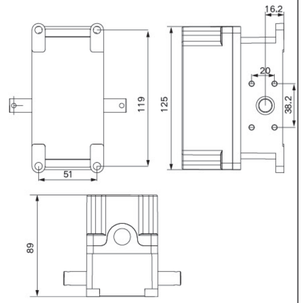
起升高度限位器 Lifting height stopper

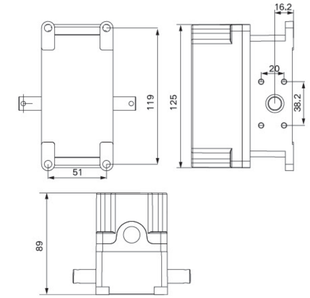
NMLX1 1:16

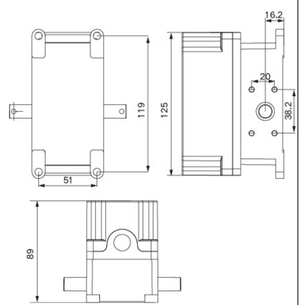
NMLX1 1:24

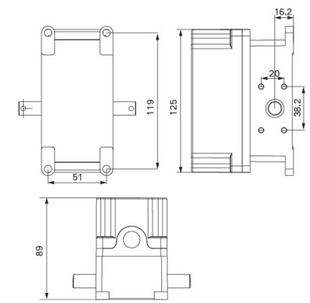
NMLX1 1:34

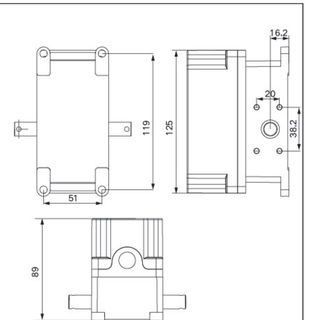
NMLX1 1:67

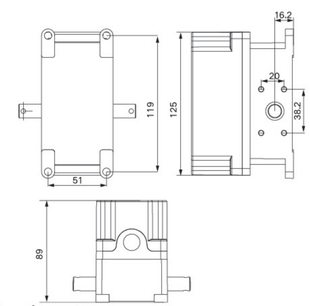
NMLX1 1:195

NMLX1 1:325

NMLX1 1:715

NMLX 带电位器 With potentiometer

CHNANMA®



SS 超小型微动开关
Subminiature Micro Switch

特点 Features

◎ 采用简单稳定的分割 2 片弹簧
◎ 可广泛应用于家用电器、OA 等用途
◎ 符合欧盟 REACH 法规

◎ Simple and stable split 2-piece spring is adopted
◎ It can be widely used in household appliances, OA and other purposes
◎ Compliance with EU REACH regulations

型号说明 Model Number Structure

SS - □ □ □ □ □ □ □ □
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

项目 Item	代号 Code	说明 Description
① 额定值 Type switch	10	10(3)A 125/250VAC
	5	5(2)A 125/250VAC
②接点间距 Contact spacing	无	0.5mm
	1M	1mm
	2M	2mm
③驱动杆 Drive rod	无	按钮型 Button type
	Z □	摆杆型 Swing rod type
	W □	R 型摆杆型 R-type swing rod type
	G □	滚轮摆杆型 Roller swing rod type
注：□内数字“无或 0~99”，表示不同尺寸的摆杆流水号 Note: □ the number "None" or 0 ~ 99 "indicates the serial number of swing rods of different sizes		
④动作力 (OF) 最大 Maximum action force (OF)	无	1.47N
	-F	0.59N
	-F1	1.0N
	-F2	2.27N
	-F3	3.7N
⑤接触种类 Contact type	无	双投型 (转换)
	-2	常闭型 (NC)
	-3	常开型 (NO)
⑥端子种类 Type of terminal	无	焊接端子
	T	#110 型端子
	T1	#110 型短端子
	D	PCB 型端子
	D1	左弯 PCB 型端子
	D2	右弯 PCB 型端子
⑦壳体材料 Shell material	无	PMC
	P	PBT
⑧特殊产品编码 Special product code	无或 - 任意六位以内数字或英文符号 None or - any number or English symbol within six digits	

接点规格 Contact Specification

项目 Project	型号 Model	SS-10	SS-5
接点 Contact	规格 Specifications	铆钉 Rivet	
	材质 Material	银合金 Silver alloy	
	间隔 (标准值) Interval (standard value)	0.5mm	
最小适用负载 Minimum applicable load	DC5V 160mA		

性能 Performance

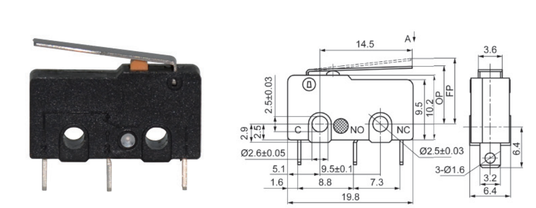
项目 Project		规格值 Specification value
容许操作速度 Allowable operating speed		0.1mm~1m/s
绝缘电阻 Insulation resistance		100MΩ 以上
接触电阻 (初始值) Contact resistance (initial value)		50mΩ 以上
耐压 Withstand voltage	同级端子之间 Between terminals of the same level	AC1000V 50/60Hz 1min
	带电金属部与地之间 Between live metal part and ground	AC1500V 50/60Hz 1min
	各端子与非带电金属部之间 Between each terminal and non electrified metal part	AC1500V 50/60Hz 1min
寿命 Life	机械 Mechanics	100 万次
	电气 Electrical	5 万次
防护等级 Degree of protection		IEC IP40
触电保护级 Electric shock protection level		CLASS I
PTI(漏电特性) PTI (leakage characteristic)		175
使用环境温度 / 湿度 Operating ambient temperature / humidity		-25℃ ~+125℃，60%RH 以下 (不结冰、无凝露) (no ice and condensation)

额定值 Rating

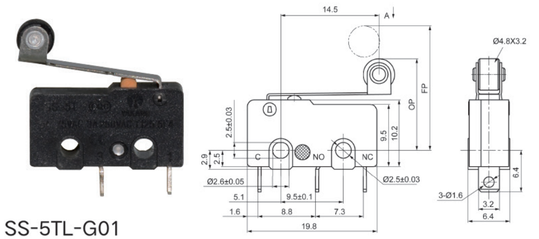
型号 Model	额定电压 Rated voltage	阻性负载 Resistive load
SS-10	AC125V	10A
	AC250V	10A
SS-5	AC125V	5A
	AC250V	5A

微动开关系列 MICRO SWITCH

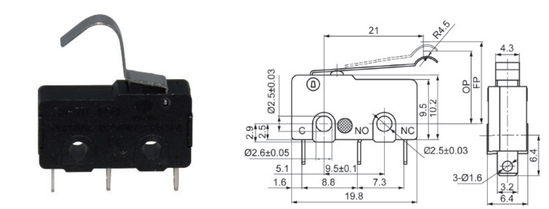
SS-5TD-Z04



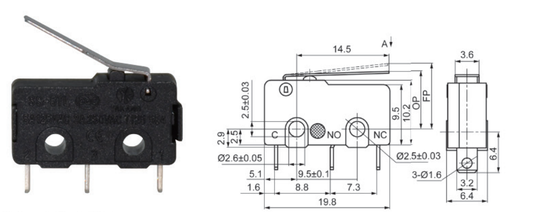
SS-5TL-G01



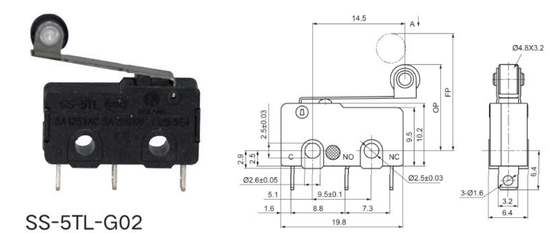
SS-5TL-W02



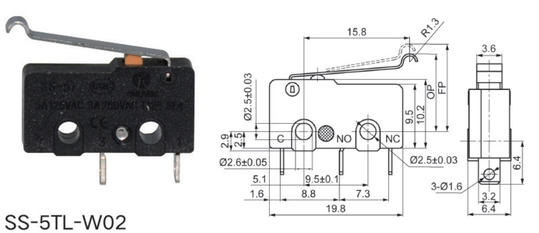
SS-5TL-Z01



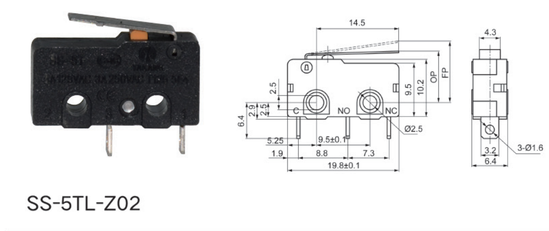
SS-5TL-G02



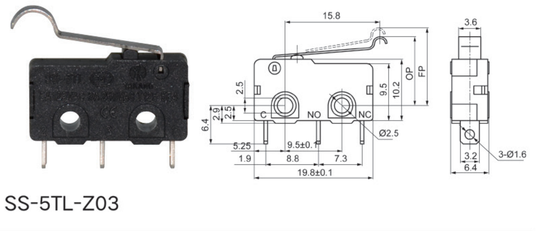
SS-5TL-W02



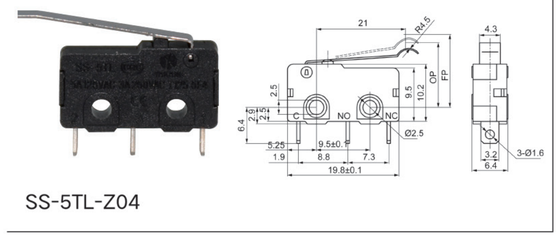
SS-5TL-Z02



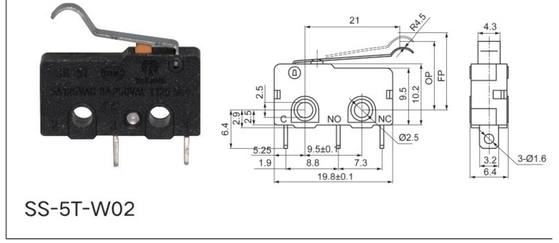
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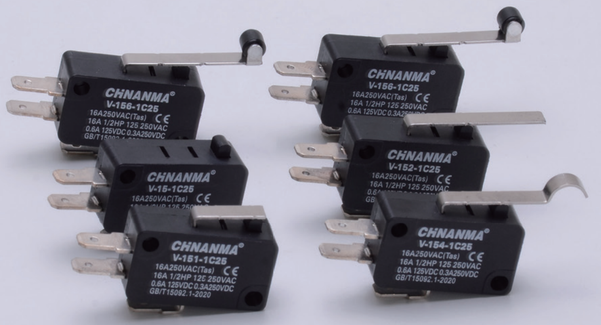
SS-5TL-Z04



SS-5T-W02



CHNANMA®



V15 小型微动开关
Miniature Snap Action Switch

型号说明 Model Number Structure

V - 15 · 1 - 1 C2 5
① ② ③ ④

项目 Item	代号 Code	说明 Description
① 额定电流 Rated Current	15	15A
②头部及传动杆 Head and driving rod	无	按钮型 Button type
	01	短杠杆型 Short lever type
	02	杠杆型 Lever type
	03	长杠杆型 Long lever type
	04	弧形杠杆型 Arc lever type
	05	滚轮短杠杆型 Roller short lever type
	06	滚轮杠杆型 Roller lever type
③触点形式 Contact form	1	一常开 一常闭触点 1NO/1NC
	2	一常闭触点 1NC
	3	一常开触点 1NO
④端子规格 Terminal specifications	C	#250 型端子 #250 terminal
	C2	#187 型端子 #187 terminal

规格 Specifications

项目 Item \ 型式 Type		V 型 V type
操作速度 Operation speed		0.05mm~1m/s(按钮型 Button type)
动作频率 Operating frequency		电气 Electrical：20 operations/min
绝缘电阻 Insulation resistance		100MΩ 以上 (在 500VDC 以下) 100mΩ above(at 500VDC)
接点电阻 Contact resistance		15mΩ 以下 (初期) 15mΩmax. (initial value)
耐电压 Withstand voltage	非连续端子间 Non-continuous terminals	1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute
	载电流和无载电流零件间，端子和接地之间 current-carrying and non-current-carrying metal parts, Between terminal and earthing	2,000VAC, 50/60Hz 持续 1 分钟 2000VAC, 50/60 Hz for 1 minute
振动 Vibration	误动作 Misoperation	10 至 55Hz, 1.5mm 双振幅 10 to 55Hz,1.5mm pairs swing
冲击 Shock	耐久 Durable	最大 1,000m/S2(约 100G) Maximum 1000 m/S2 (100G)
	误动作 Misoperation	最大 200m/S2(约 100G) Maximum 200 m/S2 (100G)
寿命 Life	电气 Electrical	16A，10 万次以上 More than 100000 times
使用周围温度 Temperature		使用时 :-20~+70℃ (没有结冰) Using：-20~+70℃ (With no icing)
使用周围湿度 Humidity		85%RH 以下 (+5~+35℃)Below 85% RH

额定值 Ratings

规格 Spec \ 项目 Item	额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)				突入电流 (A) Inrush Current	
		电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load			
		NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
16A	250VAC	15		2		10		3		40 以下 max.	
	8VDC	15		4		10		6			
	30VDC	10		4		10		4			
	125VDC	0.6		0.1		0.6		0.1			
	250VDC	0.3		0.05		0.3		0.05			

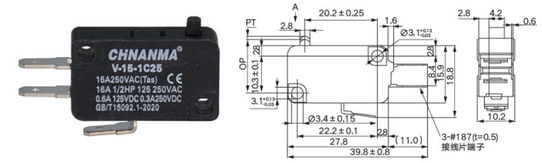
接点型式 Contact Form



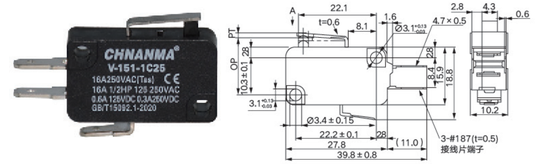
动作特性 Operating Characteristics

型式 Models	V-15	V-15-1C25	V-151-1C25	V-152-1C25	V-153-1C25	V-154-1C25	V-155-1C25	V-156-1C25
操作力 Operating force	OF 最大 (Max.)	1.96N	1.96N	1.23N	0.69N	1.23N	2.35N	1.23N
回弹力 Release force	RF 最小 (Min.)	0.49N	0.49N	0.14N	0.06N	0.14N	0.49N	0.14N
预行程 Pre-travel	PT 最大 (Max.)	1.2mm	1.2mm	4.0mm	9.0mm	4.0mm	1.6mm	4.0mm
过行程 Over travel	OT 最小 (Min.)	1.0mm	0.8mm	1.6mm	2.0mm	1.6mm	0.8mm	1.6mm
响应差的行程 Stroke with poor response	MD 最大 (Max.)	0.4mm	0.6mm	1.5mm	2.8mm	1.5mm	0.6mm	1.5mm
动作位置 Operating position	OP(mm.)	14.7±0.4mm	15.2±0.5mm	15.2±1.2mm	15.2 $^{+2.6}_{-3.2}$mm	18.7±1.2mm	20.7±0.6mm	20.7±1.2mm

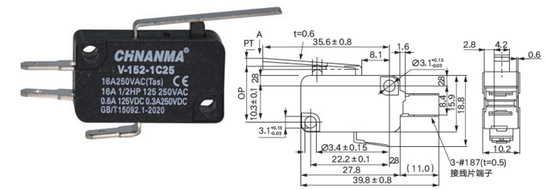
微动开关系列 MICRO SWITCH



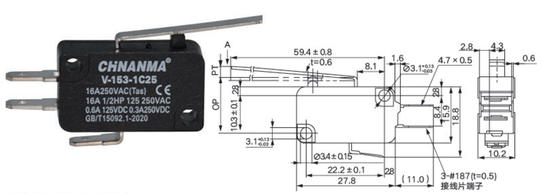
V-15-1C25



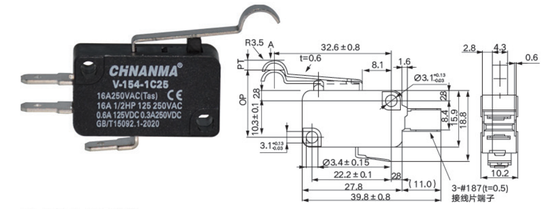
V-151-1C25



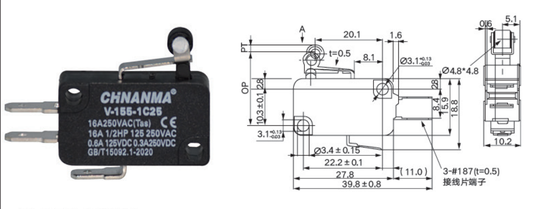
V-152-1C25



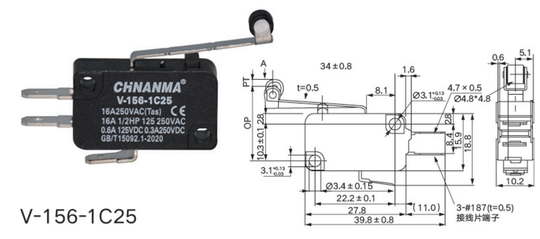
V-153-1C25



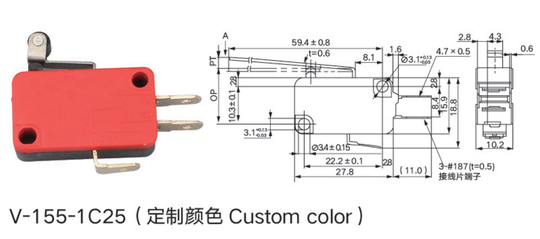
V-154-1C25



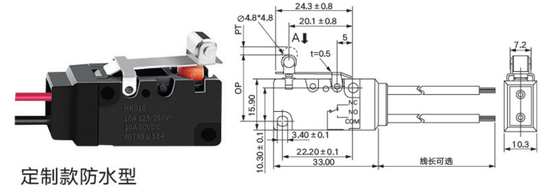
V-155-1C25



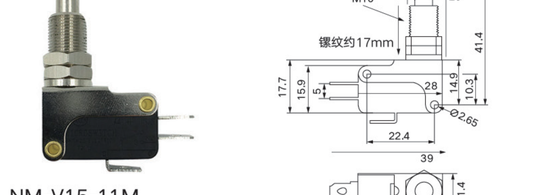
V-156-1C25



V-155-1C25（定制颜色 Custom color）



定制款防水型
Customized waterproof type



NM-V15-11M

CHNANMA®

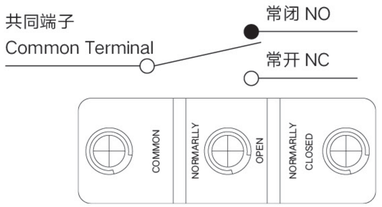


NM 卧式微动开关
Horizontal Micro Switch

特点 Features

◎ 采用简单稳定的分割 2 片弹簧
◎ 可广泛应用于家用电器、OA 等用途
◎ 符合欧盟 REACH 法规
◎ Phenolic bakelite shell
◎ Various actuators and some with adjustable operating position (such as TM1701)
◎ High accuracy wide range of operation speed

接点型式 Contact Form



* 黄铜端子螺丝，型号后加 (-T)。
* Brass terminal screw, model plus (-T).

规格 Specifications

操作速度 Operation speed	0.05mm 至 1m/s (柱塞型) 0.05mm-1m/s (Plunger type)
动作频率 Operating frequency	电气 :20 次 / 分 Electical: 20 operations/min
接点电阻 Contact resistance	15mΩ 以下 (初期) 15mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC ）
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	(*10 至 20Hz): 1.5mm 变振幅误动作耐久 : 10 至 55Hz (*10 to 20Hz): 1.5 Vibration amplitude action duration: 10 to 55Hz
冲击 Shock	机械耐久 :1,000m/Sec2(约 100G ’ S) 误动作耐久 :300m/Sec2(约 30G ’ S) Mechanical durable: 1, 000m/Sec2 (about 100G'S) Malfunction: 300m/Sec2 (about 30G'S)
周围温度 Ambien temperature	使用时：-20~+80℃（没有结冰） Using：-20~+80℃（With no icing）
湿度 Humidity	泛用型 : 85%RH 以上 密封型 : 95%RH General purpose type: 85% RH max., Sealed type: 95% RH max.
电气寿命 Electrical life	500,000 次以上 500,000 operations above
重量 Weight	约 22 至 58g About 22 to 58g

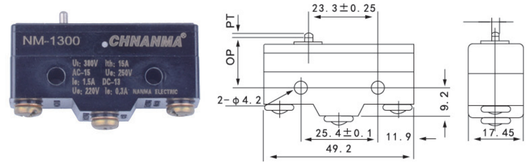
额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)				突入电流 (A) Inrush Current	
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load			
	NC	NO	NC	NO	NC	NO	NC	NO		
125VAC	15		3	1.5	15		5	2.5	30 以下 max.	15 以下 max.
250VAC	15		2.5	1.25	15		3	1.5		
500VAC	3		1.5	0.75	2.5		1.5	0.75		
8VDC	15		3	1.5	15		5	2.5		
14VDC	15		3	1.5	10		5	2.5		
30VDC	6(2)		3	1.5	5		5	2.5		
125VDC	0.4		0.4	0.4	0.05		0.05	0.05		
250VDC	0.2		0.2	0.2	0.03		0.03	0.03		

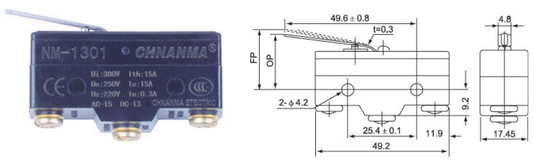
动作特性 Operating Characteristics

型式 Models	TM1300	TM1301	TM1303	TM1305	TM1306	TM1307	TM1308	TM1309	TM1701	TM1702	TM1703 TM1725	TM1704 TM1714	TM1705	TM1743
OF 最大 (Max.)	350g	300g	300g	350g	350g	350g	350g	350g	70g	160g	100g	160g	10g	160g
RF 最小 (Min.)	114g	50g	50g	114g	114g	114g	114g	114g	14g	28g	22g	42g	3g	42g
PT 最大 (Max.)	0.4mm	4mm	4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm	10mm	5mm	7.1mm	2.7mm	20mm	2.7mm
OT 最小 (Min.)	0.13mm	1.6mm	1.6mm	1.6mm	1.6mm	5.5mm	3.58mm	3.58mm	5.6mm	2mm	4mm	2.4mm	5.6mm	2.4mm
MD 最大 (Max.)	0.05mm	1.3mm	1.3mm	0.05mm	0.05mm	0.05mm	0.05mm	0.05mm	1.27mm	1mm	1.02mm	0.5mm	3mm	0.5mm
FP 最大 (Max.)		20.6mm	31.8mm						28.2mm	24.8mm	36.5mm	32.5mm		43.6mm
OP(mm)	15.9±0.4	17.4±0.8	28.6±0.8	28.2±0.5	21.5±0.5	21.8±0.8	33.4±1.2	33.4±1.2	19±0.8	19±0.4	30.2±0.8	30.2±0.4	19±0.8	43.1±0.8

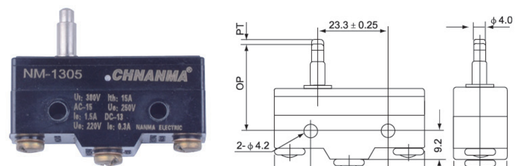
微动开关系列 MICRO SWITCH



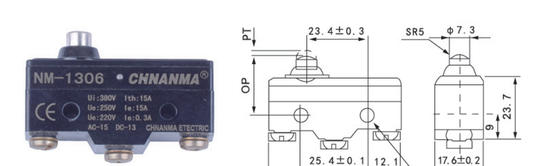
NM-1300



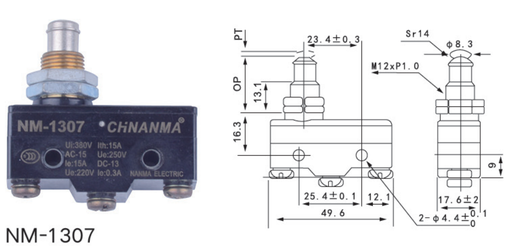
NM-1301



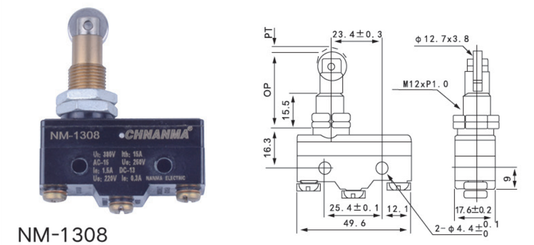
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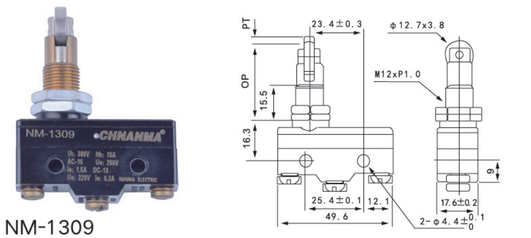
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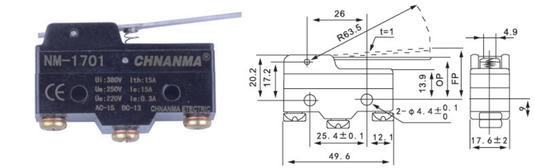
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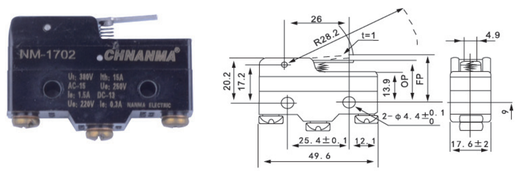
NM-1308



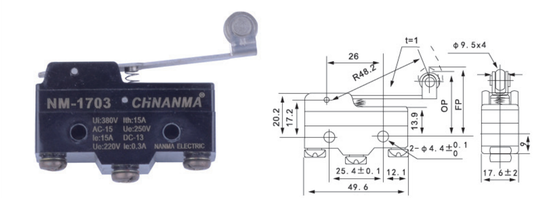
NM-1309



NM-1701



NM-1702



NM-1703

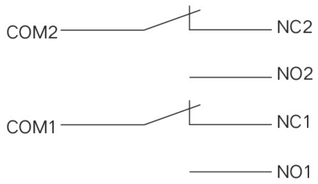


ADZ 双联式微动开关 Double Micro Switch

型号说明 Model Description

◎ 很适合切换在不同电压下的电路操作，且适于控制两个独立的电路
◎ It is suitable for switching circuit operation at different voltages and for controlling two independent circuits

接点型式 Contact Form



额定值 Ratings

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

规格 Specifications

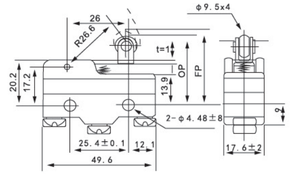
操作速度 Operation speed		0.1mm 至 1m/s *1 0.1mm-1m/s *1
动作频率 Operating frequency	机械 Mechanics	240 次 / 分 240 operations/min
	电气 Electical	20 次 / 分 20 operations/min
绝缘电阻 Insulation resistance		100MΩ 以上 (在 500VDC 下) 100mΩ min. （below 500VDC)
接触电阻 contact resistance		15mΩ 以下 (初期) 15mΩ max. (initial value)
绝缘强度 Insulation strength		1000ACV，50/60Hz，1 分钟，在非连续性端子之间 1000ACV，50/60Hz，1 minute，Between discontinuous terminals
		1500ACV，50/60Hz，1 分钟，在带电金属部与不带电金属部之间、带电金属部与地线之间以及开关之间 1500ACV，50/60Hz，1 minute，Between the live metal part and the non live metal part, between the live metal part and the ground wire, and between the switch
耐冲击 Impact resistance	误动作 Misoperation	10~55Hz 双振幅 1.5mm*2； 300m/s2 以下 *1*2 10~55Hz double amplitude 1.5mm*2； Below 300m / S2*1* 2
	毁坏 Damage	毁坏：1000m/s2 以下 Damage: below 1000m / s2
电气寿命 Electrical life	机械 Mechanics	1000000 次以上 More than 1000000 times
	电气 Electical	500000 次以上 More than 500000 times
防护等级 Degree of protection		IP00
触电保护等级 Electric shock protection level		Class I
漏电性能 (PTI) Leakage performance(PTI)		175
使用周围温度 Temperature		使用时：-25~+80℃（没有结冰） Using：-25~+80℃（With no icing）
使用周围湿度 Humidity		35%~85%RH
质量 Quality		约 30 至 50g About 30 to 50g

动作特性 Operating Characteristics

型式 Models	ADZ-10GW22-1B	ADZ-10GW2-1B	ADZ-10GW2-1B	ADZ-10GW-1B
OF 最大 (Max.)	3.92N	3.92N	2.09N	1.67N
RF 最小 (Min.)	0.83N	0.83N	0.41N	0.27N
OT 最小 (Min.)	0.9mm	0.9mm	1.2mm	1.6mm
MD 最大 (Max.)	2.4mm	2.4mm	3.3mm	4mm
FP 最大 (Max.)	39.7mm	39.7mm	47.6mm	46.3mm
OP(mm)	30.2±0.8mm	30.2±0.8mm	31.8±0.8mm	21.8±1mm

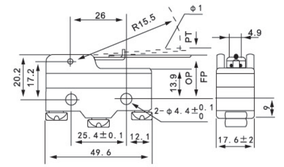
微动开关系列 MICRO SWITCH





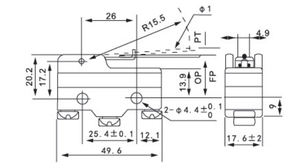
NM-1704





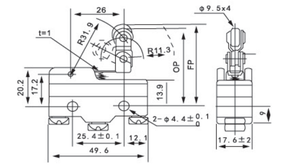
NM-1705





NM-1724





NM-1743



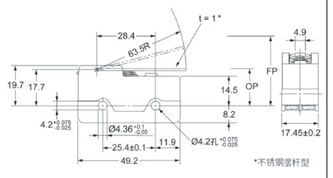
NM/TM 软护套 Flexible sheath



NM/TM 硬护套 Rigid sheath

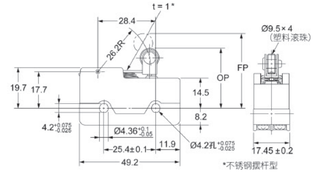
双联微动开关系列 MICRO SWITCH





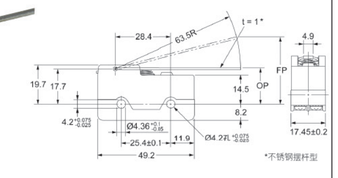
ADZ-10GW21-1B





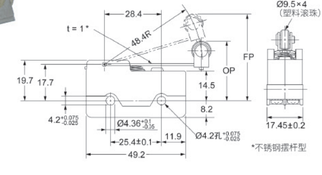
ADZ-10GW22-1B





ADZ-10GW-B





ADZ-10GW2-B



Z-15G 防水型微动开关 Waterproof microswitch

特征 FEATURE

◎ 高开闭容量 (15A)
◎ 高精确度
◎ OP 精度高达 ±0.4mm
◎ 广泛操作速度范围

◎ High switch on and off capacity(15A)
◎ High accuracy
◎ OP accuracy up to ±0.4mm
◎ Wide range of operation speed

规格 /Specification

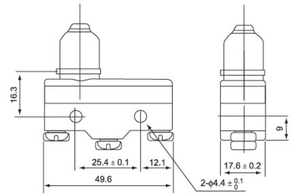
额定电压 Rated Voltage (V)	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)		突入电流 Lnrush current	
	电阻 Resistance Load		电感 Inductive		电动负荷 Motor Load			
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	15		15		5	2.5	30 最大 (Max)	15 最大 (Max)
250VAC	15		15		3	1.5		
500VAC	3		2.50		1.5	0.75		
8VDC	15		15		5	5		
14VDC	15		1		5	5		
30VDC	6(2)		5		5	5		
125VDC	0.4		0.05		0.05	0.05		
250VDC	0.2		0.03		0.03	0.03		

特性 /Characterstics

操作速度 Operation speed	0.01mm~1m/swc
工作频率 Operation frequentcy	机械的：240 次 / 分 电气的：20 次 / 分 Mechanical：240 times/min Electrical：20 times/min
绝缘电阻 Insulation resistance	1000MΩ 以上 (500VDC 以下) 1000MΩ min. (At 500VDC 以下)
接触电阻 Contact r8sistance	20mΩ 以下 (初期) 20mΩ or less (initial)
耐压 Dielectric xtrength	非串联的端子间 1,000AVC 持续一分钟； 端子间和地间 2,000VAC 持续一分钟 1,000AVC for one minute between non-series terminals; 2,000VAC for one minute between terminals and ground
振动 Vibration	机械承受力 双震幅：10~55Hz 1.5mm Mechenical durabiity 10~55Hz 1.5mm double amphtude
环境温度 Ambient operating	-25℃ ~+80℃
温湿度 Humidity	<85%RH max
使用寿命 Serivce life	机械：10,000,000 以上 Mechanocally：10,000,000 operations min 电气：5000,000 以上 Electrical：5000,000 or more

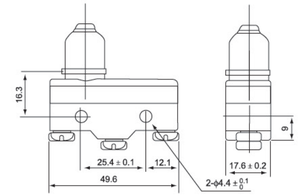
防水型微动开关 Waterproof microswitch





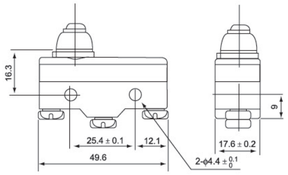
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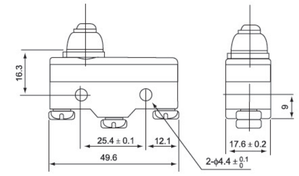
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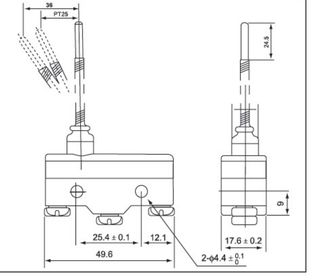
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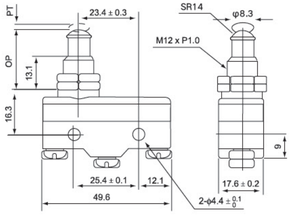
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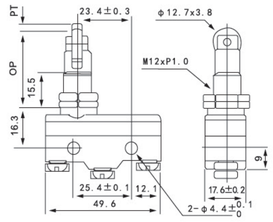
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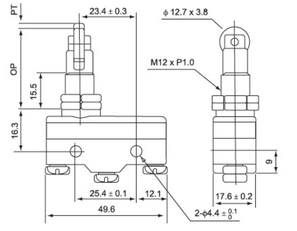
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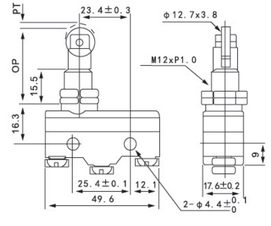
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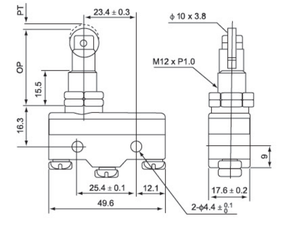
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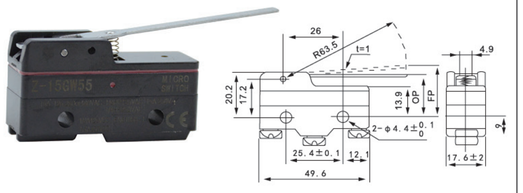
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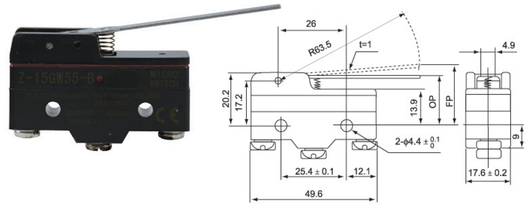


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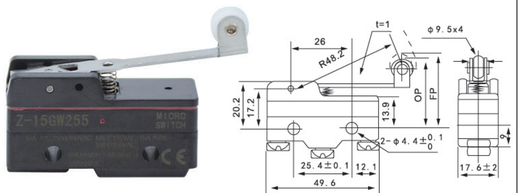
微动开关系列 MICRO SWITCH



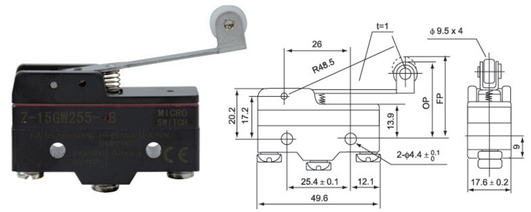
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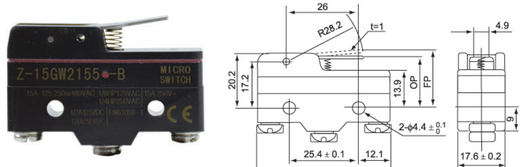
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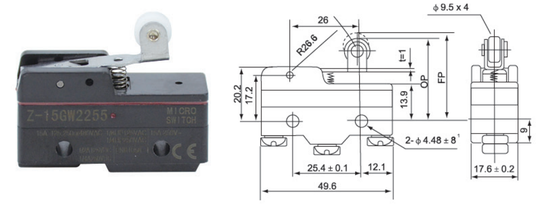
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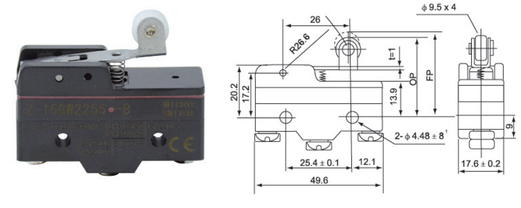
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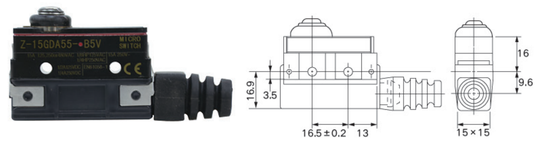


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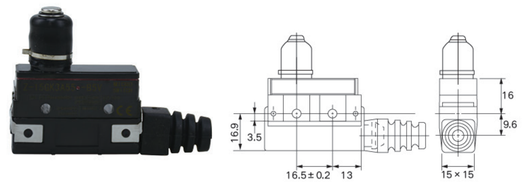


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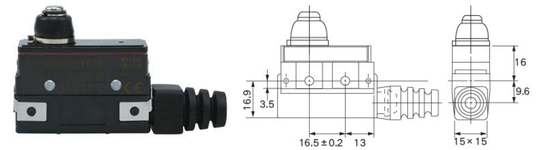
微动开关系列 MICRO SWITCH



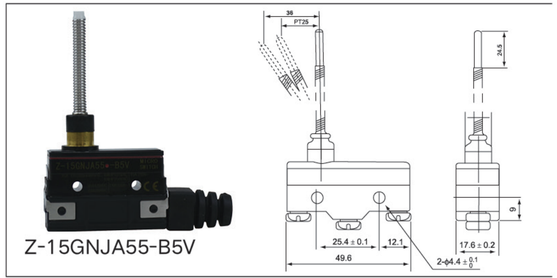
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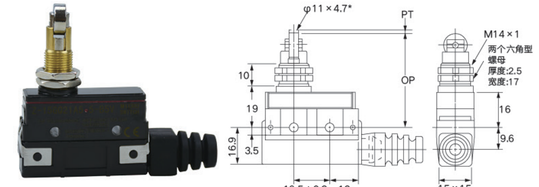
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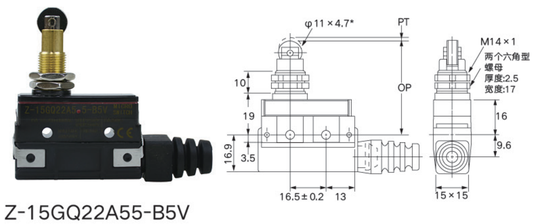
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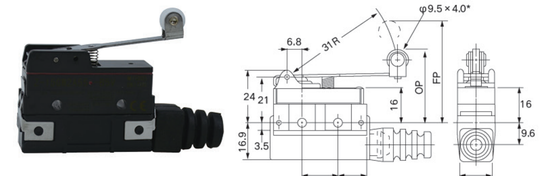
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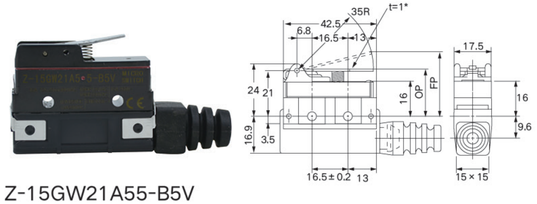
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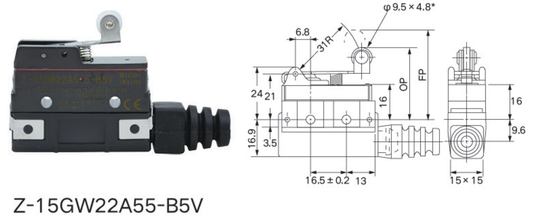
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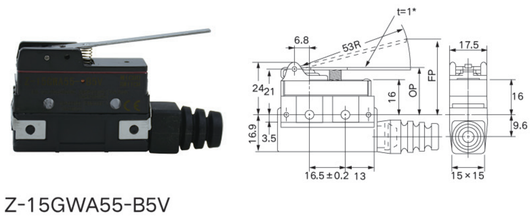
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Z-15GW21A55-B5V



Z-15GW22A55-B5V



Z-15GWA55-B5V



LX33 限位开关 Limit Switch

概述 summarize

LX33 行程开关适用于交流 50-60HZ;AC380V;DC220V; 电流 10A 的控制线路中，作为起重机平移机构的行程限制及终端保护。
正常工作在环境温度 -5℃ ~+40℃；
环境温度 90%；
机械寿命 100 万次，防护等级 IP44;
符合 IEC337-1 GB14048.5-2001 标准。

LX33 stroke switch is suitable for AC 50-60HZ; AC380V; DC220V; In the control line of 10A current, it is used as the travel limitation and terminal protection of the crane translation mechanism.
Normal operation at ambient temperature -5℃ ~+40℃ ;
Ambient temperature 90%;
Mechanical life of 1 million times, protection grade IP44;
Comply with IEC337-1 GB14048.5-2001 standard.

正常工作条件 Normal working condition

◎ 周围空气温度上限 40℃；
◎ 周围空气温度下限值不低于 -5℃；
◎ 周围空气温度 24h 的平均值不超过 35℃。
◎ 海拔：安装地点的海拔不超过 2000m。
◎ 湿度：空气相对湿度在最高温度为 40℃时，不超过 50%，在较 1 低温度下可以有较高的相对湿度，最湿月的月平均最低温度不超过 25℃，该月的月平均最大相对湿度不超过 90%。由于温度变化发生在产品上的凝露情况必须采取措施。
◎ 污染等级：污染等级为 3 级。
◎ 安装类别：安装类别为 II 类。

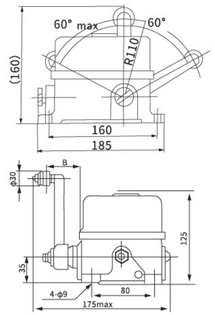
◎ Upper ambient air temperature of 40℃ ;
◎ ambient air temperature lower limit of not less than -5℃ ;
◎ The average ambient air temperature for 24h does not exceed 35℃ .
◎ Elevation: The elevation of the installation site does not exceed 2000m.
◎ Humidity: The relative humidity of the air does not exceed 50% when the maximum temperature is 40℃ , and can have a higher relative humidity at a lower temperature, the monthly average minimum temperature of the wettest month does not exceed 25 ℃ , and the monthly average maximum relative humidity of the month does not exceed 90%. Measures must be taken due to temperature changes occurring in the condensation situation on the product.
◎ Pollution level: The pollution level is 3.
◎ Installation Category: The installation category is Category II.

技术参数 Technical Parameter

防护等级 Class of protection	IP42	机械寿命 Mechanical life	60X104
约定发热电流 Conventional heating current	20A	环境温度 Ambient temperature	-5℃ +40℃
额定电压 Rated voltage	AC380V/DC220V	相对湿度 Relative humidity	≤ 90%
额定控制电流 Rated control current	AC9.5A/DC0.55A	应用范围 Scope of application	控制线路中作为起重机平移机构或起升机构的行程限制及终端保护 The travel limitation and terminal protection of the crane translation mechanism or lifting mechanism in the control line

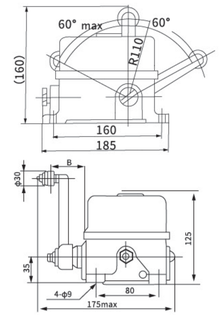
限位开关系列 Limit Switch





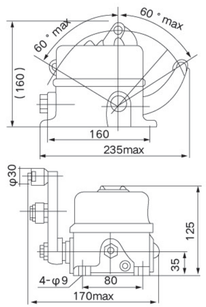
NMLX33-11





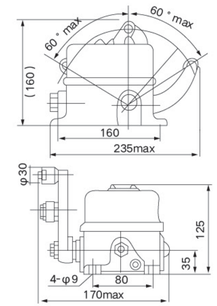
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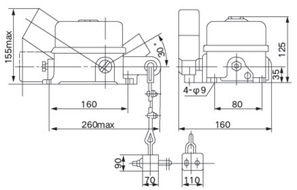
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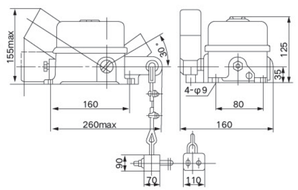
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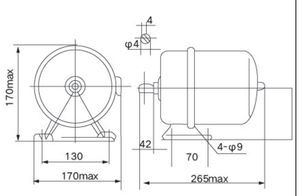
NMLX33-31





NMLX33-32





NMLX33-41/42



NMLX33-31/32 重锤附件 Weight attachment



耐高温可选
High temperature optional

DQX1/LX205 重型限位开关 Heavy duty limit switch

概述 summarize

DQX1/LX205 重型限位开关适用于交流 50-60HZ;AC380V;DC220V;电流 10A 的控制线路中，作为起重机平移机构的行程限制及终端保护。
正常工作在环境温度 -5℃ ~+40℃；
环境温度 90%；
机械寿命 100 万次，防护等级 IP44;
符合 IEC337-1 GB14048.5-2001 标准。

DQX1/LX205 Heavy duty limit switch is suitable for AC 50-60HZ; AC380V; DC220V; In the control line of 10A current, it is used as the travel limitation and terminal protection of the crane translation mechanism.
Normal operation at ambient temperature -5℃ ~+40℃ ;
Ambient temperature 90%;
Mechanical life of 1 million times, protection grade IP44;
Comply with IEC337-1 GB14048.5-2001 standard.

正常工作条件 Normal working condition

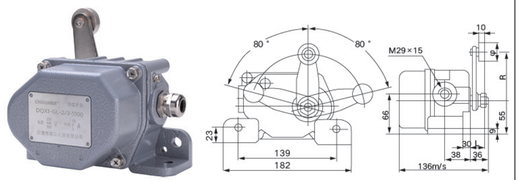
◎ 周围空气温度上限 40℃；
◎ 周围空气温度下限值不低于 -5℃；
◎ 周围空气温度 24h 的平均值不超过 35℃。
◎ 海拔：安装地点的海拔不超过 2000m。
◎ 湿度：空气相对湿度在最高温度为 40℃时，不超过 50%，在较 1 低温度下可以有较高的相对湿度，最湿月的月平均最低温度不超过 25℃，该月的月平均最大相对湿度不超过 90%。由于温度变化发生在产品上的凝露情况必须采取措施。
◎ 污染等级：污染等级为 3 级。
◎ 安装类别：安装类别为 II 类。

◎ Upper ambient air temperature of 40℃ ;
◎ ambient air temperature lower limit of not less than -5℃ ;
◎ The average ambient air temperature for 24h does not exceed 35℃ .
◎ Elevation: The elevation of the installation site does not exceed 2000m.
◎ Humidity: The relative humidity of the air does not exceed 50% when the maximum temperature is 40℃ , and can have a higher relative humidity at a lower temperature, the monthly average minimum temperature of the wettest month does not exceed 25 ℃ , and the monthly average maximum relative humidity of the month does not exceed 90%. Measures must be taken due to temperature changes occurring in the condensation situation on the product.
◎ Pollution level: The pollution level is 3.
◎ Installation Category: The installation category is Category II.

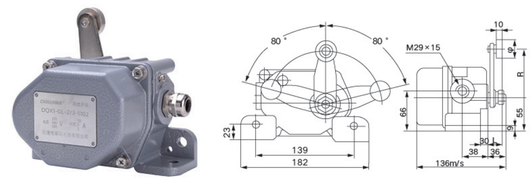
技术参数 Technical Parameter

防护等级 Class of protection	IP42	机械寿命 Mechanical life	60X104
约定发热电流 Conventional heating current	20A	环境温度 Ambient temperature	-5℃ +40℃
额定电压 Rated voltage	AC380V/DC220V	相对湿度 Relative humidity	≤ 90%
额定控制电流 Rated control current	AC9.5A/DC0.55A	应用范围 Scope of application	控制线路中作为起重机平移机构或起升机构的行程限制及终端保护 The travel limitation and terminal protection of the crane translation mechanism or lifting mechanism in the control line

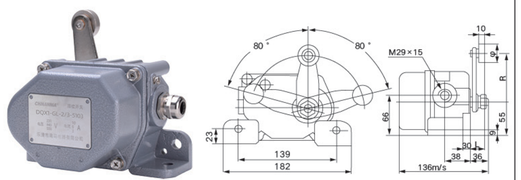
限位开关系列 LIMIT SWITCH



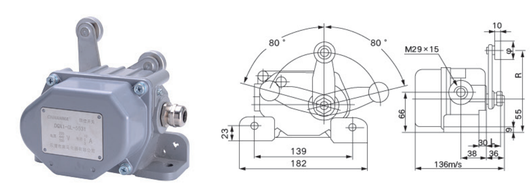
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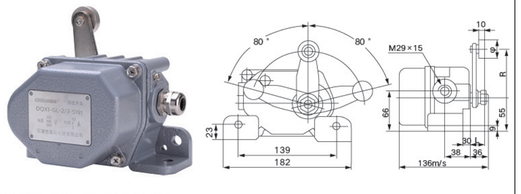
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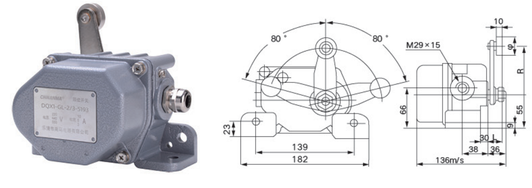
DQX1-GL-2 3-5103



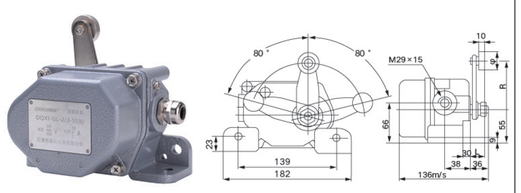
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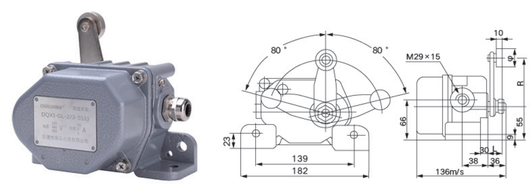
DQX1-GL-2 3-5191



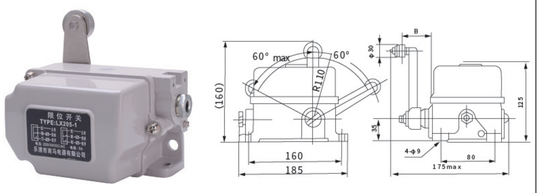
DQX1-GL-2 3-5193



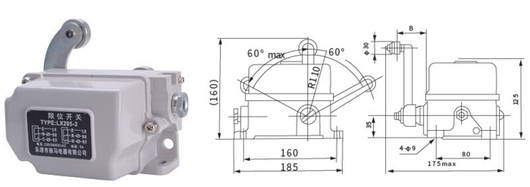
DQX1-GL-2 3-5530



DQX1-GL-2 3-5533



LX205-1



LX205-2



NMLXT/TA 重型限位开关 Heavy duty limit switch

概述 summarize

NMLXT/TA 重型限位开关适用于交流 50-60HZ;AC380V;DC220V; 电流 10A 的控制线路中，作为起重机平移机构的行程限制及终端保护。
正常工作在环境温度 -20℃ ~80℃；
环境温度 90%；
机械寿命 100 万次，防护等级 IP44;
符合 IEC337-1 GB14048.5-2001 标准。

DQX1/LX205 Heavy duty limit switch is suitable for AC 50-60HZ; AC380V; DC220V; In the control line of 10A current, it is used as the travel limitation and terminal protection of the crane translation mechanism.
Normal operation at ambient temperature -5℃ ~+40℃ ;
Ambient temperature 90%;
Mechanical life of 1 million times, protection grade IP44;
Comply with IEC337-1 GB14048.5-2001 standard.

正常工作条件 Normal working condition

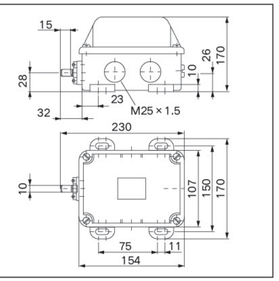
◎ 周围空气温度上限 80℃；
◎ 周围空气温度下限值不低于 -20℃；
◎ 周围空气温度 24h 的平均值不超过 35℃。
◎ 海拔：安装地点的海拔不超过 2000m。
◎ 湿度：空气相对湿度在最高温度为 40℃时，不超过 50%，在较 1 低温度下可以有较高的相对湿度，最湿月的月平均最低温度不超过 25℃，该月的月平均最大相对湿度不超过 90%。由于温度变化发生在产品上的凝露情况必须采取措施。
◎ 污染等级：污染等级为 3 级。
◎ 安装类别：安装类别为 II 类。

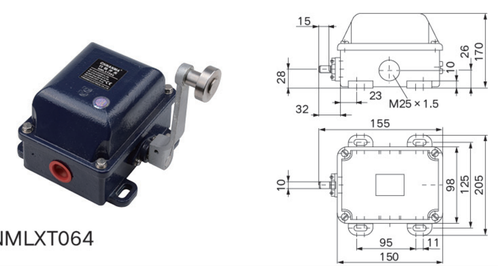
◎ Upper ambient air temperature of 80℃ ;
◎ ambient air temperature lower limit of not less than -20℃ ;
◎ The average ambient air temperature for 24h does not exceed 35℃ .
◎ Elevation: The elevation of the installation site does not exceed 2000m.
◎ Humidity: The relative humidity of the air does not exceed 50% when the maximum temperature is 40℃ , and can have a higher relative humidity at a lower temperature, the monthly average minimum temperature of the wettest month does not exceed 25 ℃ , and the monthly average maximum relative humidity of the month does not exceed 90%. Measures must be taken due to temperature changes occurring in the condensation situation on the product.
◎ Pollution level: The pollution level is 3.
◎ Installation Category: The installation category is Category II.

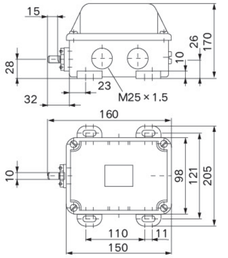
技术参数 Technical Parameter

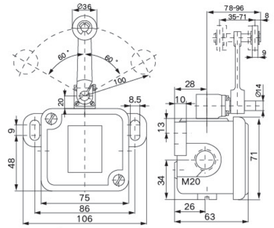
防护等级 Class of protection	IP42	机械寿命 Mechanical life	60X104
约定发热电流 Conventional heating current	20A	环境温度 Ambient temperature	-20℃ ~80℃
额定电压 Rated voltage	AC380V/DC220V	相对湿度 Relative humidity	⩽ 90%
额定控制电流 Rated control current	AC9.5A/DC0.55A	应用范围 Scope of application	控制线路中作为起重机平移机构或起升机构的行程限制及终端保护 The travel limitation and terminal protection of the crane translation mechanism or lifting mechanism in the control line

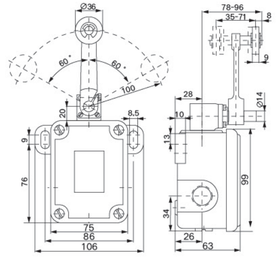
限位开关系列 LIMIT SWITCH

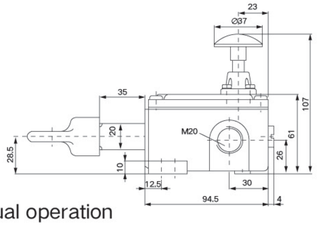


NMLXT130

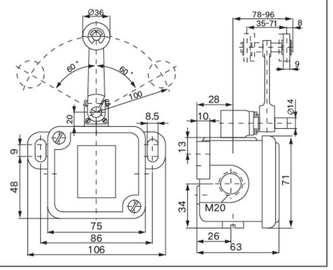

NMLXT064

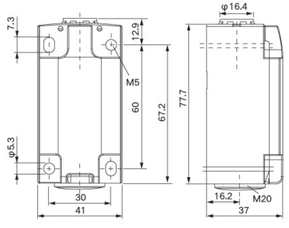


NMLXT067

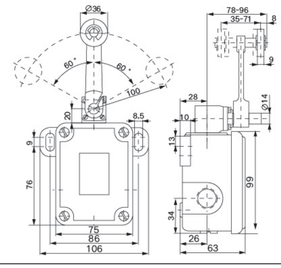


TL 422-01Y 手动 Manual operation



TL 441-01Y



TL 441-01Y 手动 Manual operation



TL 422-01Y



TK016-12y



TD452-12Y-2512


INO/2NC 3NC

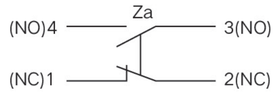


Z4V 金属型行程开关
Metal type travel switch

特点 Features

- ◎ 经济金属型
- ◎ 不锈钢滚轮，冲头及弹簧
- ◎ 特大 ±95 ° 摇管摆幅
- ◎ 导管连接器尺寸标配 M20×1.5
- ◎ Economic metal type
- ◎ Stainless steel roller, punch and spring
- ◎ Swing amplitude, extra large ± 95 °
- ◎ M20x1.5 cable gland that can be equipped

接触形式 Contact form



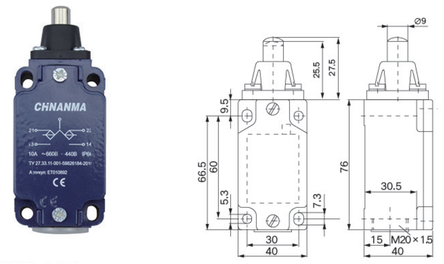
规格 Specifications

双断开机械功用 Double Break Mechanism	INO+INC Force Break snap action 强迫断开快速机芯
额定电压 / 电流 Rated Voltage/Current	10(4)A, 125, 250VAC/6(2)A, 380VAC Forinductance Load, Cosφ=0.4
接触电阻 Contact Resistance	25m Ω max. (initial value)
绝缘电阻 Insultation Resistance	100m Ω min.(at 500VDC)
电介强度 Dielectric Strength	1000VAC, 50/60 Hz for 1 minute between terminals of the same polaritg
	电气寿命 Electrical Life
	机械寿命 Mechanical Life
电气寿命 Electrical Life	500,000 at 10A 250VAC Resistive
机械寿命 Mechanical Life	10,000,000 operations min.(under rated conditions)
操作速度 Operating Speed	5mm/s to 0.5m/s
防水防尘能力 Degree of Protection	IP65
上升温度 Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current
合乎标准 Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660
操作温度 Operating Temperature	-5℃ ~+65℃ (with no icing)
保存温度 Storage Temperature	-5℃ ~+65℃ (with no icing)
湿度 Ambient Operating Humditg	95% RH Max.
冲击系数 Shock Resistance	Mechanicaldurable: 1000m/s2, min
	其他螺丝扭力 Other Screw Torsional Force
振动频率 Vibration Frequencg	Malfunction: 10 t0 55Hz, 1.5mm double amplitude
端子螺丝扭力 Terminal Screw Torsional Force	6-8 kgf-cm
其他螺丝扭力 Other Screw Torsional Force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgf/cm
裸铜线尺寸 Bare Wire Diameter	Φ2 Max
电缆尺寸 Cable Diameter	Φ12 Max

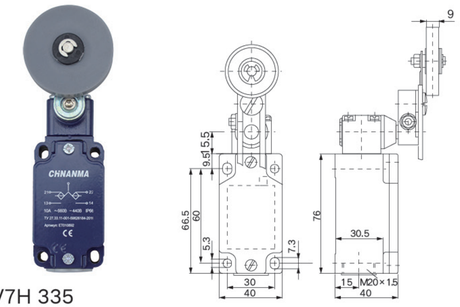
注：带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。
Note: Product with spring, its usoble ronge of operating part is within one third of the whole spring length from the front end of spring

行程开关系列 TRAVEL SWITCH

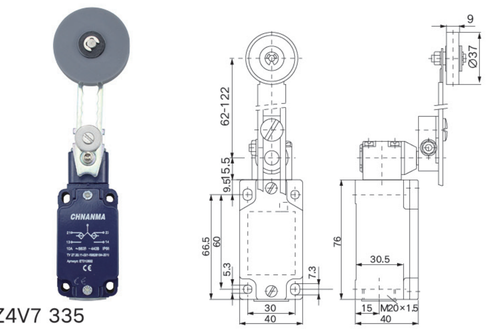
ZS 335-11Z



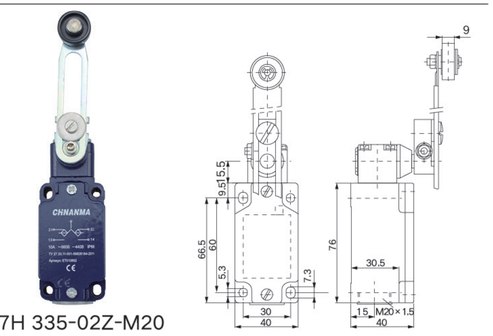
Z4V7H 335



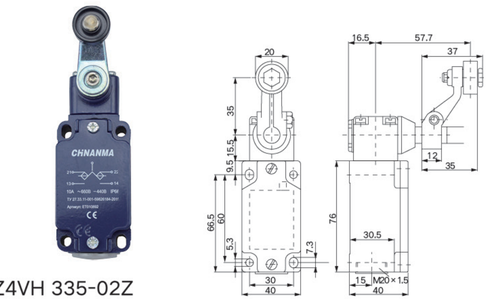
Z4V7 335



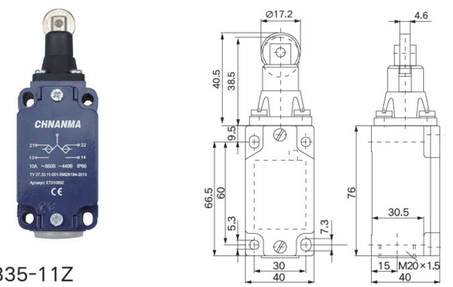
Z4V7H 335-02Z-M20



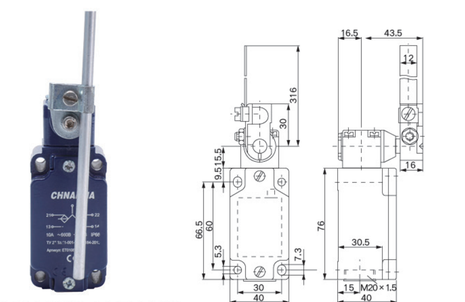
Z4VH 335-02Z



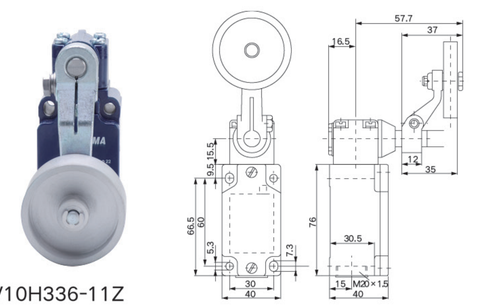
ZR 335-11Z



T4V10H 336-11Z-M20



Z4V10H336-11Z



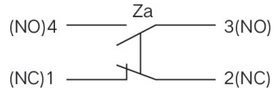


Z4V 塑料型行程开关
Plastic type travel switch

特点 Features

- ◎ 经济塑料型
- ◎ 不锈钢滚轮，冲头及弹簧
- ◎ 特大 ±95 ° 摇管摆幅
- ◎ 导管连接器尺寸标配 M20×1.5
- ◎ Economical & plastic tgpe
- ◎ Stainless steel roller, punch and spring
- ◎ Swing amplitude, extra large ± 95 °
- ◎ M20x1.5 cable gland that can be equipped

接触形式 Contact form

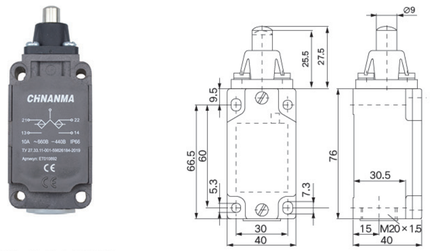


规格 Specifications

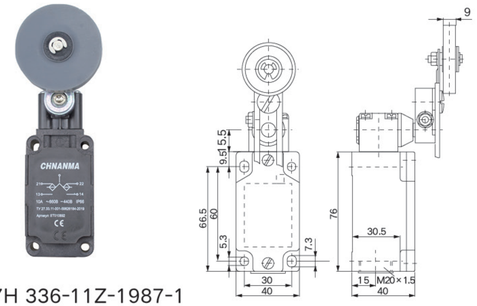
双断开机械功用 Double Break Mechanism	INO+INC Force Break snap action 强迫断开快速机芯
额定电压 / 电流 Rated Voltage/Current	10(4)A, 125, 250VAC/6(2)A, 380VAC Forinductance Load, Cosφ=0.4
接触电阻 Contact Resistance	25m Ω max. (initial value)
绝缘电阻 Insultation Resistance	100m Ω min.(at 500VDC)
电介强度 Dielectric Strength	1000VAC, 50/60 Hz for 1 minute between terminals of the same polaritg
	电气寿命 Electrical Life
	机械寿命 Mechanical Life
电气寿命 Electrical Life	500,000 at 10A 250VAC Resistive
机械寿命 Mechanical Life	10,000,000 operations min.(under rated conditions)
操作速度 Operating Speed	5mm/s to 0.5m/s
防水防尘能力 Degree of Protection	IP65
上升温度 Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current
合乎标准 Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660
操作温度 Operating Temperature	-5℃ ~+65℃ (with no icing)
保存温度 Storage Temperature	-5℃ ~+65℃ (with no icing)
湿度 Ambient Operating Humditg	95% RH Max.
冲击系数 Shock Resistance	Mechanicaldurable: 1000m/s2, min
	其他螺丝扭力 Other Screw Torsional Force
振动频率 Vibration Frequencg	Malfunction: 10 t0 55Hz, 1.5mm double amplitude
端子螺丝扭力 Terminal Screw Torsional Force	6-8 kgf-cm
其他螺丝扭力 Other Screw Torsional Force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgf/cm
裸铜线尺寸 Bare Wire Diameter	Φ2 Max
电缆尺寸 Cable Diameter	Φ12 Max

注：带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。
Note: Product with spring, its usoble ronge of operating part is within one third of the whole spring length from the front end of spring

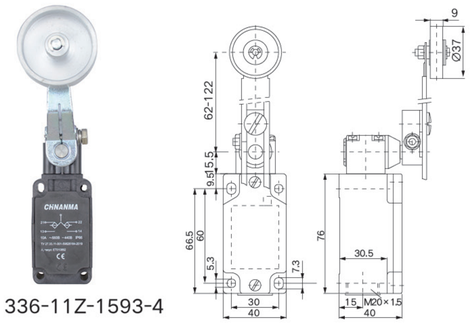
行程开关系列 TRAVEL SWITCH



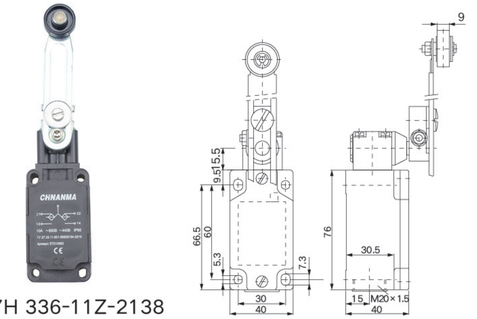
TS 336-11Z-M20



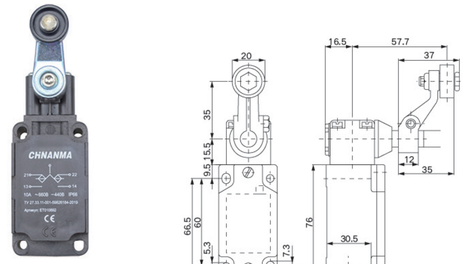
T4V7H 336-11Z-1987-1



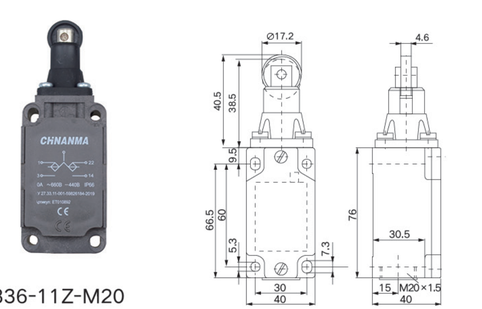
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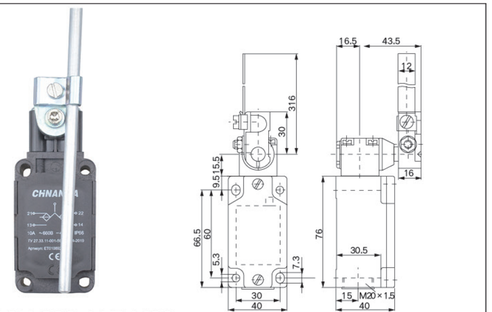
T4V7H 336-11Z-2138



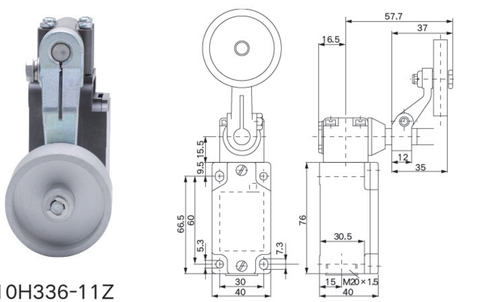
Z4VH 336-02Z-M20



TR 336-11Z-M20



T4V10H 336-11Z-M20



Z4V10H336-11Z

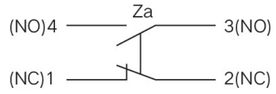


ZS/ZK 金属型行程开关
Metal type travel switch

特点 Features

- ◎ 经济金属型
- ◎ 不锈钢滚轮，冲头及弹簧
- ◎ 特大 ±95 ° 摇管摆幅
- ◎ 导管连接器尺寸标配 M20×1.5
- ◎ Economic metal type
- ◎ Stainless steel roller, punch and spring
- ◎ Swing amplitude, extra large ± 95 °
- ◎ M20x1.5 cable gland that can be equipped

接触形式 Contact form

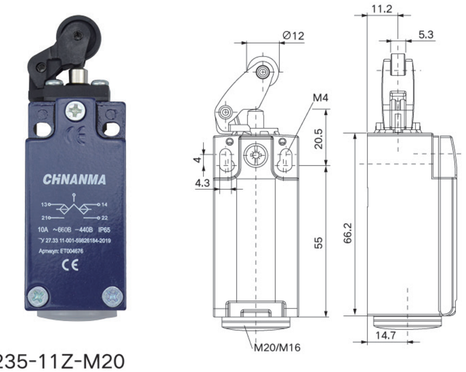


规格 Specifications

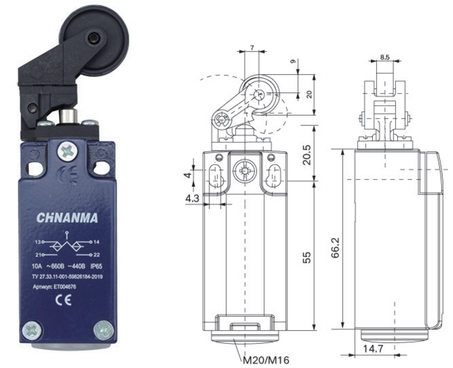
双断开机械功用 Double Break Mechanism	INO+INC Force Break snap action 强迫断开快速机芯
额定电压 / 电流 Rated Voltage/Current	10(4)A, 125, 250VAC/6(2)A, 380VAC Forinductance Load, Cosφ=0.4
接触电阻 Contact Resistance	25m Ω max. (initial value)
绝缘电阻 Insultation Resistance	100m Ω min.(at 500VDC)
电介强度 Dielectric Strength	1000VAC, 50/60 Hz for 1 minute between terminals of the same polaritg
	电气寿命 Electrical Life
	机械寿命 Mechanical Life
电气寿命 Electrical Life	500,000 at 10A 250VAC Resistive
机械寿命 Mechanical Life	10,000,000 operations min.(under rated conditions)
操作速度 Operating Speed	5mm/s to 0.5m/s
防水防尘能力 Degree of Protection	IP65
上升温度 Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current
合乎标准 Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660
操作温度 Operating Temperature	-5℃ ~+65℃ (with no icing)
保存温度 Storage Temperature	-5℃ ~+65℃ (with no icing)
湿度 Ambient Operating Humditg	95% RH Max.
冲击系数 Shock Resistance	Mechanicaldurable: 1000m/s2, min
	其他螺丝扭力 Other Screw Torsional Force
振动频率 Vibration Frequencg	Malfunction: 10 t0 55Hz, 1.5mm double amplitude
端子螺丝扭力 Terminal Screw Torsional Force	6-8 kgf-cm
其他螺丝扭力 Other Screw Torsional Force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgf/cm
裸铜线尺寸 Bare Wire Diameter	Φ2 Max
电缆尺寸 Cable Diameter	Φ12 Max

注：带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。
Note: Product with spring, its usoble ronge of operating part is within one third of the whole spring length from the front end of spring

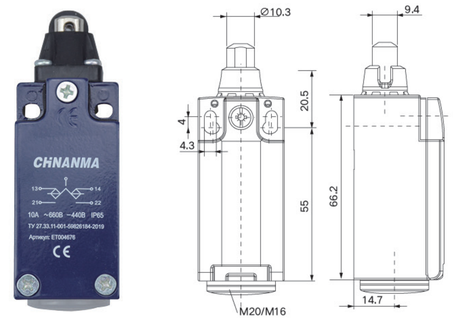
行程开关系列 TRAVEL SWITCH



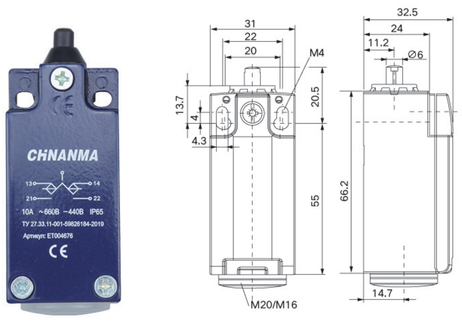
Z1R 235-11Z-M20



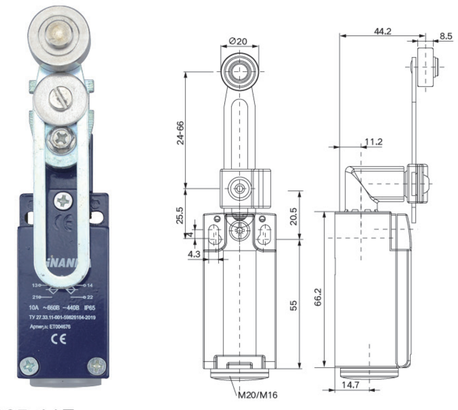
ZK 235-11Z-M20



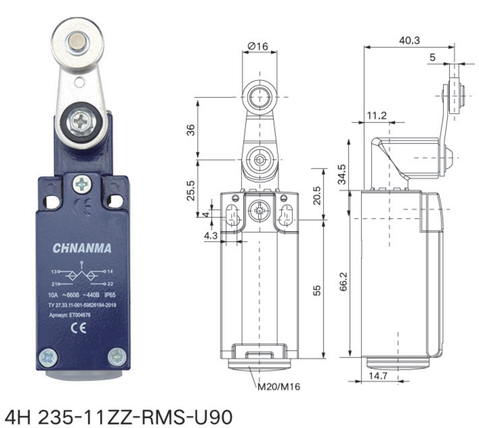
ZR 235-11Z-M20-2325



ZS 235-11Z-M20



ZV4H 235-11Z



ZV14H 235-11ZZ-RMS-U90

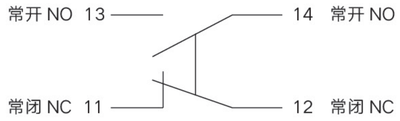


HL 行程开关 Limit Switch

特征 FEATURE

◎ 金属底壳
◎ 不锈钢滚轮，冲头及弹簧
◎ 高电型 10A 250V 50 万次
◎ Metallice bottom shell
◎ Stanless steel roller,punch and spring
◎ Strong electric proporty 10A 250V for 500,000 times

接点型式 Contact Form



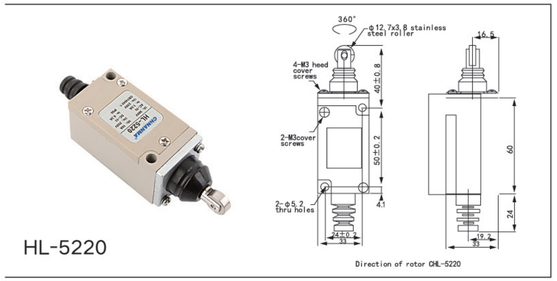
规格 /Specification

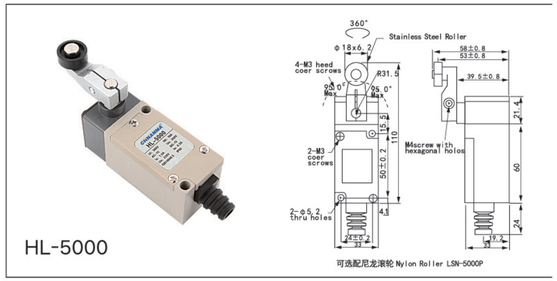
防护等级 Protection		I P65
寿命 life	机械的 Mechaniac	1,000 万次以上 Ten milion times above
	电气的 Elratrical	电气的寿命曲线 Electric life curve 5mm~0.5m/sl
操作速度 Operation speed		5mm~0.5m/sl
操作频率 Operation frequentcy	机械的 Mechaniac	120 次 / 分 120times/m
	电气的 Elratrical	30 次 / 分 30tiems/m
绝缘电阻 Insulation resistance		100MΩ DC500V
接触电阻 Contact resistance		<25mΩ
耐高压 With stand voltage (50/60Hz 1 分钟)	同极端子间 Between theterminals of same pole	AC1,000V
	充电金属部间 Between charged metal parts	AC1,500V
	各端子非充电金属部间 Between charged metal parts each terminal	AC1,000V
振动 Vibration	误动作 Misoperation	10~15Hz 复振幅 1.5mm 10~15Hz amplitude 1.5mm
负荷 Load		AC 250V 5A
		AC 380V 5A
		AC 125V 3A
		AC 250V 3A

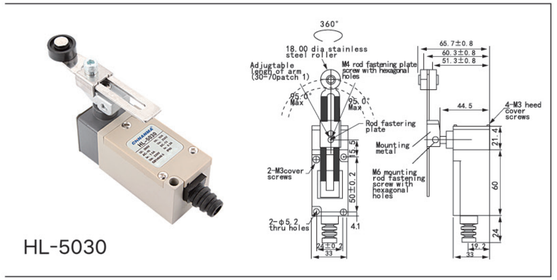
工作特性 /Operating Characteristics

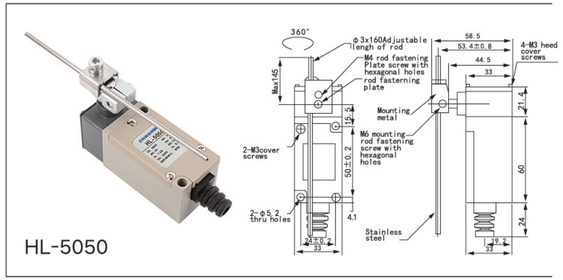
型号 Model	HL-5000	HL-5030	HL-5050	HL-5100	HL-5200	HL-5220	HL-5300	HL-5330	HL-5381	HL-5391
OF 最大 (Max)	750g-cm	750g-cm	750g-cm	750g-cm	900g-cm	900g-cm	150g	150g	150g	550g-cm
RF 最小 (Min)	100g-cm	100g-cm	100g-cm	200g	200g	200g	30g	30g	30g	100g-cm
PT 最大 (Max)	20 °	20 °	20 °	1.8mm	1.8mm	1.8mm	30mm	30mm	30mm	20 °
OT 最小 (Min)	22.5 °	22.5 °	22.5 °	2.0mm	2.0mm	2.0mm	22.5 °	22.5 °	22.5 °	22.5 °
MD 最大 (Max)	10 °	10 °	10 °	1.2mm	1.2mm	1.2mm	14 °	14 °	14 °	14 °
EP 最大 (Max)	75 °	75 °	75 °	4.0mm	4.0mm	4.0mm	20mm	20mm	20mm	75 °
OP(mm)	95 °	95 °	95 °	5.8mm	5.8mm	5.8mm	50mm	50mm	50mm	95 °

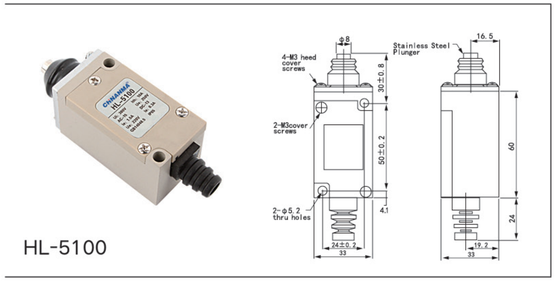
HL 立式限位开关 Vertical Limit Switch

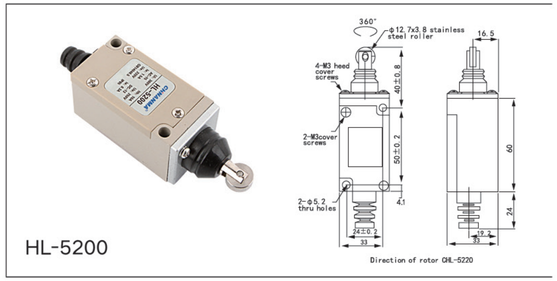


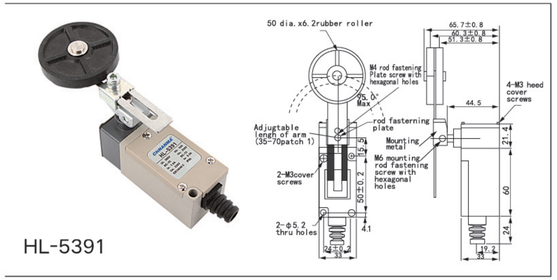


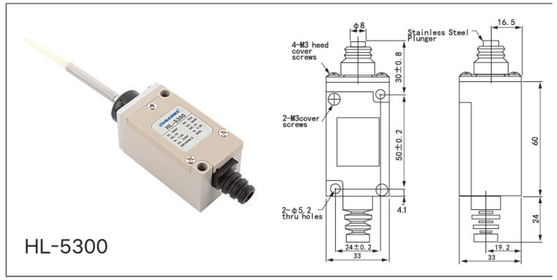


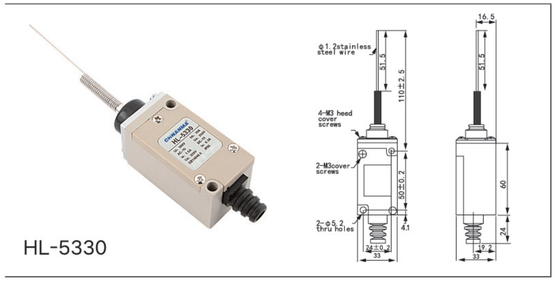


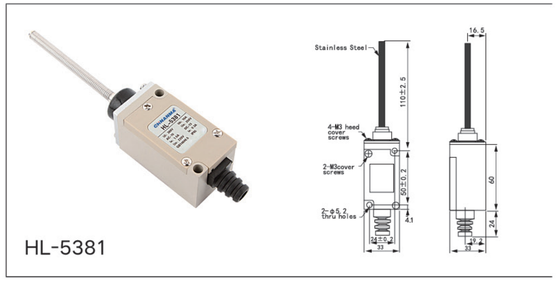


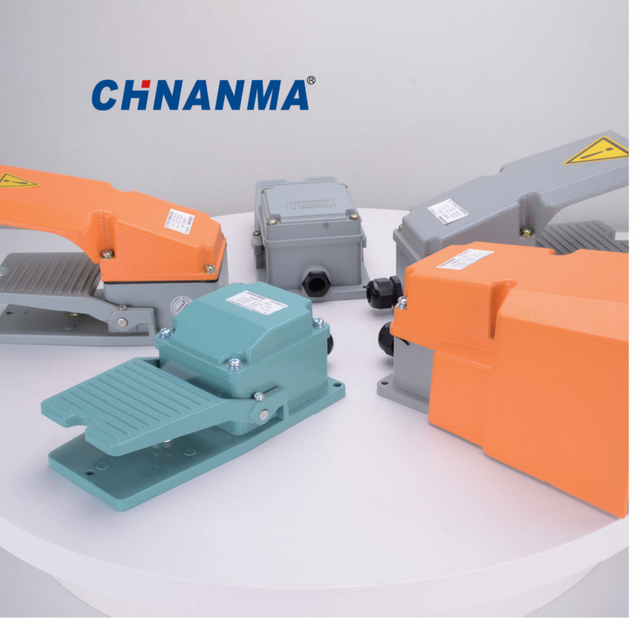












FS 脚踏开关 Foot Switch

特点 Features

◎ 塑料外壳与金属外壳可供选择
◎ Plastic shell and metal shell are for selection

接点型式 Contact Form

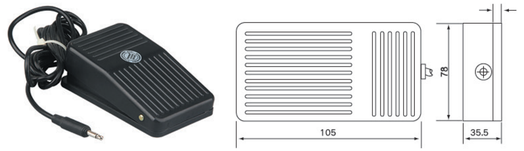


规格 Specifications

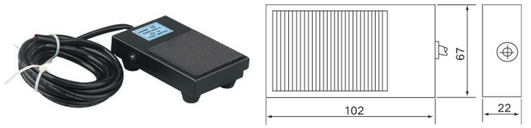
种类 Designation	型式 Model	负荷 Rating	微动开关形式 Type of switch enclosed & contact arrangement	电缆种类 / 长度 Cable type / length	接点 Cantact	动作压力 Action force	外壳材质 Material of Rind
标准型 复归式 Standard type Momentary Action	FS-101	16A 250VAC	V-16-1C25	0.5mm2，20cm~2m	1A1B	1.2kg	塑胶 Plastic
	FS-2	16A 250VAC	V-16-1C25	0.5mm2，20cm~2m	1A1B	1.1kg	铝合金 Aluminum Cast
	FS-3	16A 250VAC	V-16-1C25	0.5mm2，20cm~2m	1A1B	1.2kg	
	FS-3S	16A 250VAC	V-16-1C25	0.5mm2，20cm~2m	1A1B	1.1kg	
小型附 回定片 Mini foot switch Front end push	FS-201	16A 250VAC	V-16-1C25	0.5mm2，20cm~2m	1A1B	0.7kg	塑胶 Plastic
	FS-01	16A 250VAC	V-16-1C25	0.5mm2，20cm~2m	1A1B	0.7kg	
	FS-1	16A 250VAC	V-16-1C25	0.5mm2，20cm~2m	1A1B	0.9kg	铁壳 Iron
护盖型 Protective guard foot switch	FS-302	15A 250VAC	TM-1704	附电缆固定头，不附电缆 Accessory: Cable gland (No cable)	1A1B	3.2kg	铝合金 Aluminum Cast
	FS-502	15A 250VAC	TM-1704		1A1B	3.2kg	
	FS-602	15A 250VAC	TM-1704		2*1A1B	2.8kg	
大型 Large type	FS-402	15A 250VAC	按钮弹簧式 Button spring type		1A1B	3.2kg	

注：导管连接器尺寸常规默认为 M20x1.5，配电缆接头；导管连接器尺寸 PG13.5，型号加 (-P)，例：FS-302-P。
The default size of conduit connector is M20x1.5, outfiting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:FS-302-P.

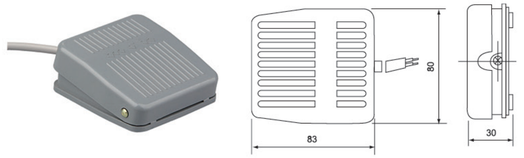
脚踏开关系列 FOOT SWITCH



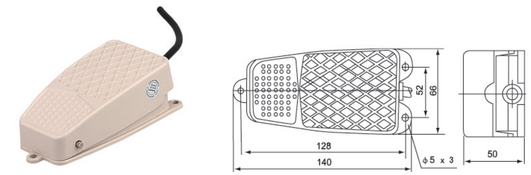
FS-01



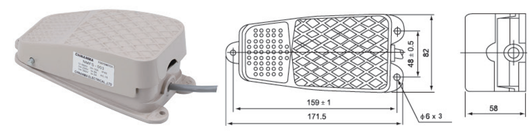
TFS-1



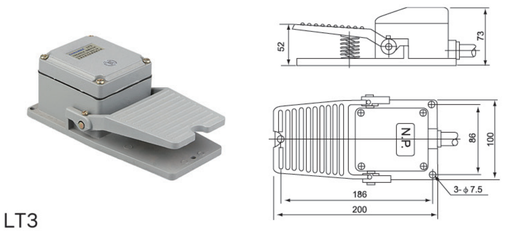
FS-201



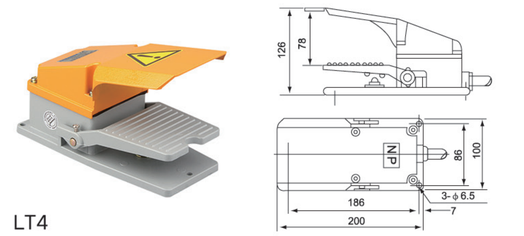
FS-2



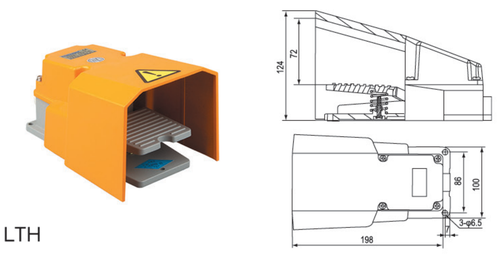
FS-3



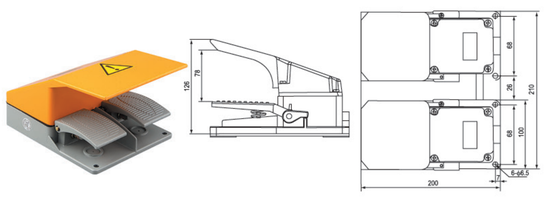
LT3



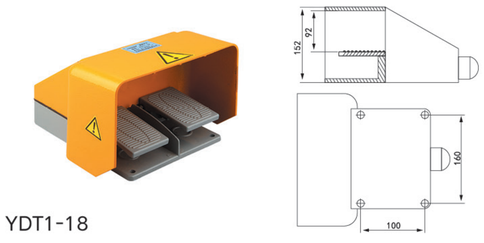
LT4



LTH



YDT1-15

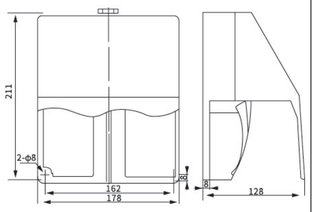


YDT1-18

脚踏开关系列 FOOT SWITCH

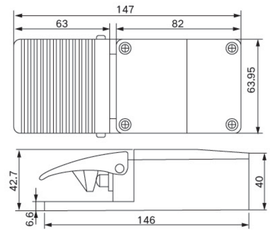
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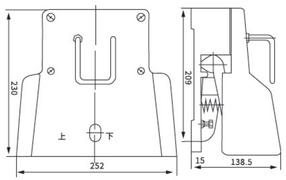
YDT1-17



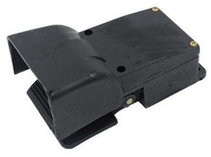


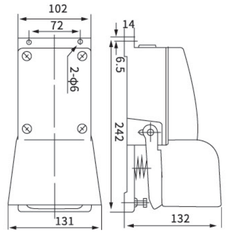
YDT1-14





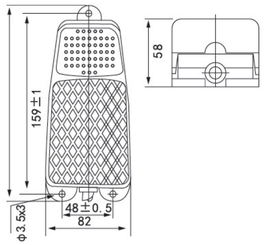
YDT1-11





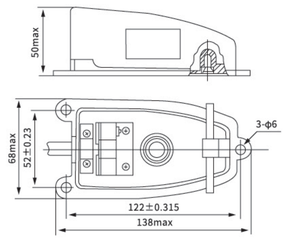
FS-101 102 105





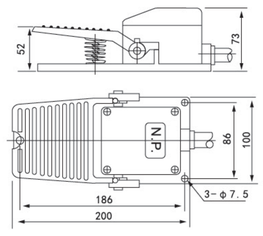
EKW-5A-B





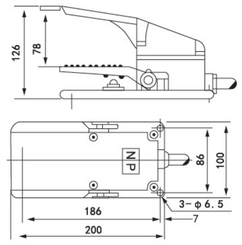
FS-402





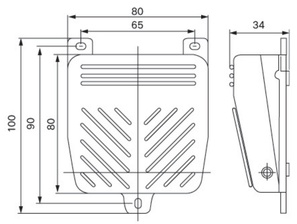
FS-302





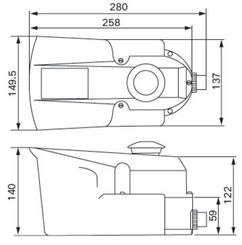
FS-201M2





FS-502/F

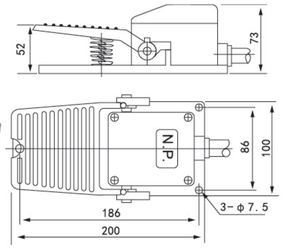




加厚脚踏开关系列 Thickened foot switch series

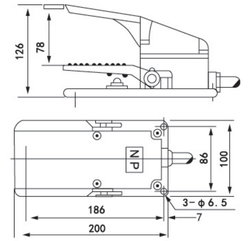
NMFS-402B





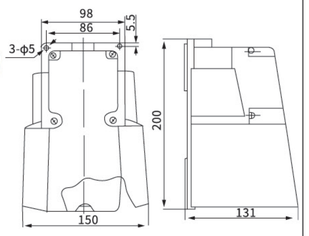
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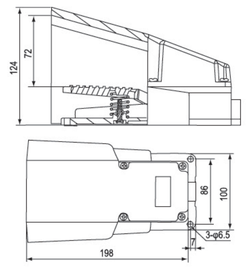
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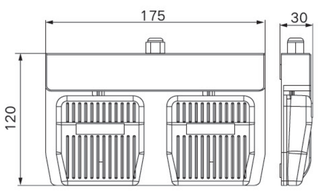
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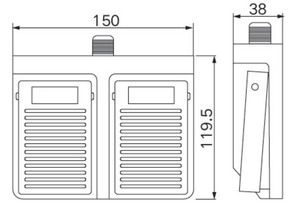
FS-201 双联 Double wheel





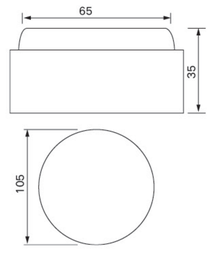
FS-201 双联 Double wheel





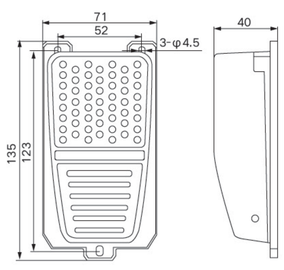
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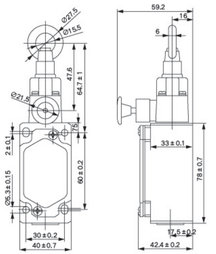


FS-5

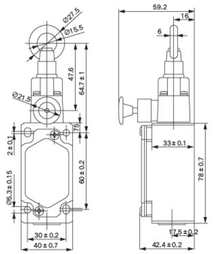




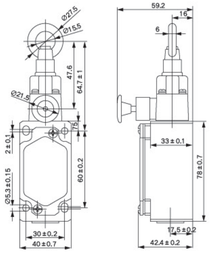
拉绳跑偏开关系列 PULL CORD SWITCH

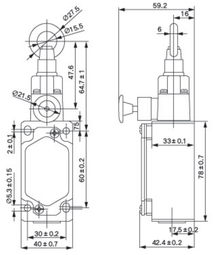
SN4170-SL-C

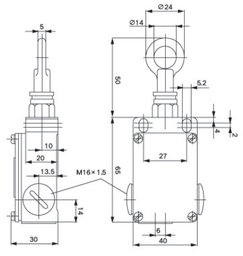
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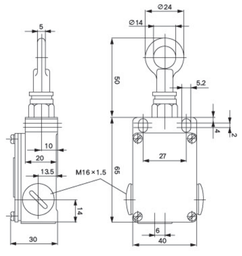
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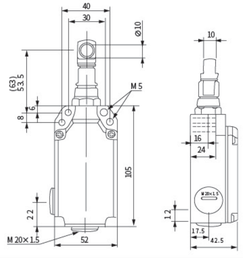
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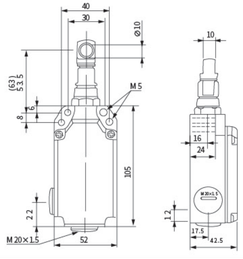
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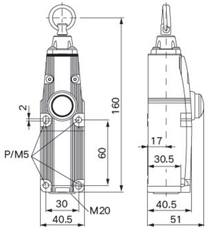
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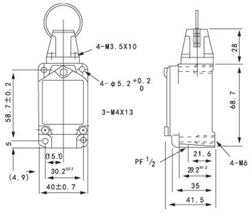
LS-LX-Z

LS-LX-S

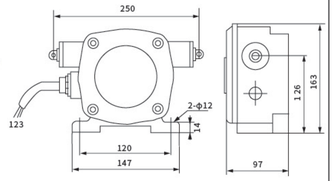



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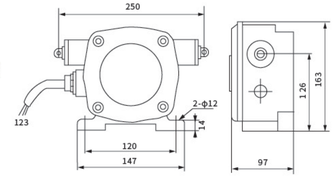



WL D202

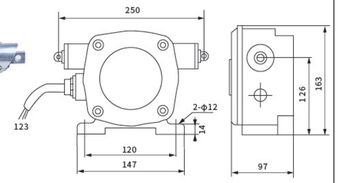
拉绳跑偏开关系列 PULL CORD SWITCH 交流极限开关 Ac limit switch

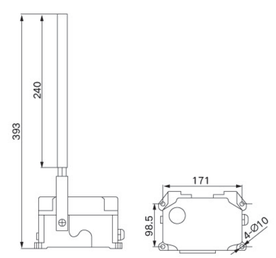
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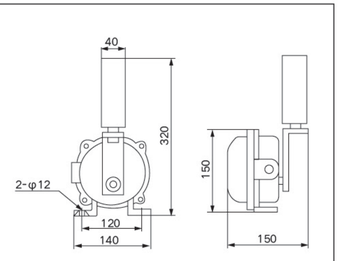
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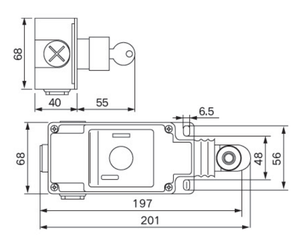
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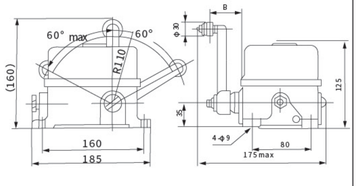
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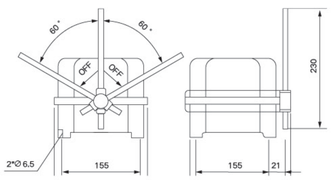
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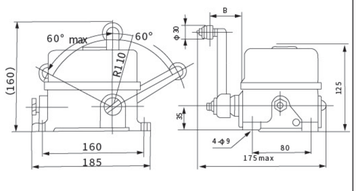
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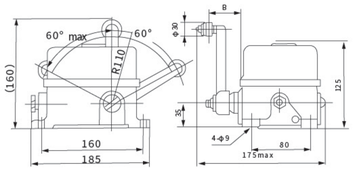
JK16-100

JK18-125

DF1-A

DF1-B



LXW20 NMCSK 普通式直流磁吹式微动开关

Ordinary DC Magnetic Blowing Micro Switch

型号说明 Model Number Structure

LX ① W ② 20 ③ - □ ④ □ ⑤

项目 Item	代号 Code	说明 Description
① 种类开关 Type switch	LX	主令行程开关 Master stroke switch
②种类开关 Type switch	W	微动开关 Micro Switch
③设计代号 Design code	20	阿拉伯数字 Arabic numerals
④基本规格代号 Basic specification code	11	常开 + 常闭 NO+NC
	01	常闭 NC
	10	常开 NO
⑤派生规格号 Derived specification number	M	磁吹灭弧装置 Magnetic arc blowing device

接点型式 Contact Form

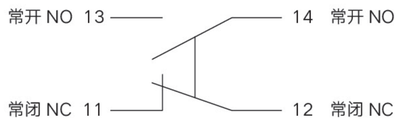
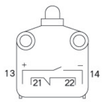
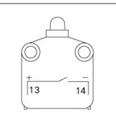
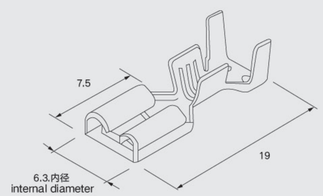


示意图 Sketch Map	型号 model	磁吹装置 Magnetic blowing device	接触方式 Contact mode
	LXW20-11	—	一开一闭 Open and close
	LXW20-11M	◯	
	LXW20-01	—	一常闭 One normally closed
	LXW20-01M	◯	
	LXW20-10	—	一常开 One normally open
	LXW20-10M	◯	

冷压端子

cold pressed terminal



动作特性 Operating Characteristics

型式 Models	LXW20	LXW20-11	LXW20-11M
操作力 Operating force	OF 最大 (Max.)	3.5N	3.5N
回弹力 Release force	RF 最小 (Min.)	0.8N	0.8N
预行程 Pre-travel	PT 最大 (Max.)	2.5 ± 0.8mm	2.5 ± 0.8mm
过行程 Over travel	OT 最小 (Min.)	3mm	3mm
响应差的行程 Stroke with poor response	MD 最大 (Max.)	1.6mm	1.6mm

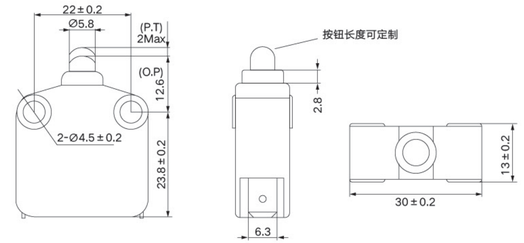
外观和尺寸 Appearance and Dimension

LXW20-11
普通式 (新款)
Swing rod type(New)





抗冲击台阶
Impact step

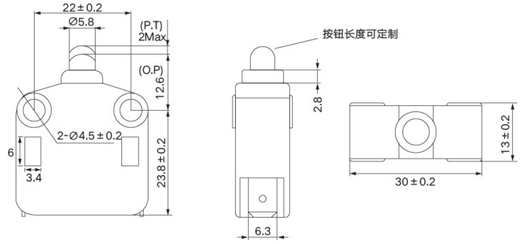


LXW20-11M
磁吹式 (新款)
Ordinary type(New)





抗冲击台阶
Impact step

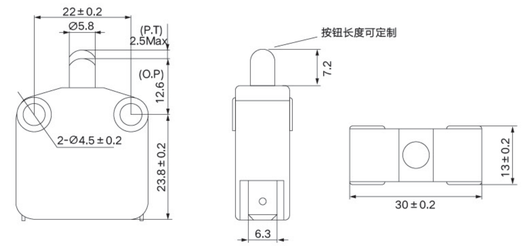


LXW20-11
普通式
Swing rod type





无台阶
stepless

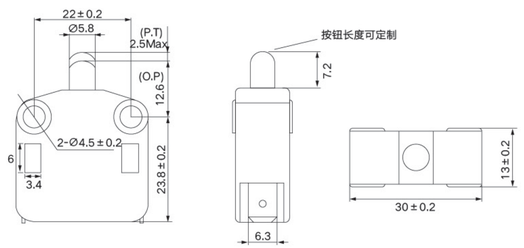


LXW20-11M
磁吹式
Ordinary type





无台阶
stepless



注：按钮标准长度为 8MM，如需加长可咨询本公司订制。
The standard length of the button is 8mm. If you need to lengthen it, you can consult our company for customization.

CHNANMA®



CSK11-A
NMCSK11-A

型磁吹开关
Magnetic Blowback Switch

使用说明 Instructions for use

CSK-1-11 开关适用于控制各种高压开关操作机构的合闸、分闸、开关锁、信号回路等二次回路之用。该开关由外壳、滑轮组、钢动机构、常开、闭触头组组成。

CSK-1-11 系列开关适用于交流 50Hz，额定工作电压 AC380V，DC220V，额定工作电流 DC220V/5A AC380V/8A 的电路中。

The CSK-1-11 switch is suitable for controlling various high-voltage switch operating mechanisms for closing, breaking, switch locking, signaling circuits and other secondary circuits. The switch consists of shell, pulley set, steel moving mechanism, normally open and closed contact set.

CSK-1-11 series switches are suitable for use in circuits with AC 50Hz, rated operating voltage AC380V, DC220V, rated operating current DC220V/5A AC380V/8A.

特点 Features

◎ 开关内部的瞬动机构具有动作速度快、拉弧少、操作灵活、轻巧等优势。触头采用银基合金。

◎ 其特点是触点接触面积大、散热快，外壳材质为聚碳酸脂。其机械具有强度高、耐热、耐寒、抗老化和电气性能好等特点。

◎ The momentary mechanism inside the switch has the advantages of fast action, less arc pulling, flexible operation and light weight. The contacts are made of silver-based alloy.

◎ It is characterized by large contact area and fast heat dissipation of the contacts, and the shell material is polycarbonate. Its machinery is characterized by high strength, heat resistance, cold resistance, anti-aging and good electrical performance.

型号说明 Model Number Structure

CSK - 1 □ □

① ② ③ ④

代号 Code	项目 Item
① CSK	磁吹开关 Magnetic Blowout Switch
② 1	设计序号 Design number
③□	通断形式：11 为 1 常开 1 常闭，22 为 2 常开 2 常闭 On-off form: 11 for 1 normally open 1 normally closed, 22 for 2 normally open 2 normally closed
④□	不标识：常规型号；标 W：带延长支架 No marking: regular model; labeled W: with extension bracket

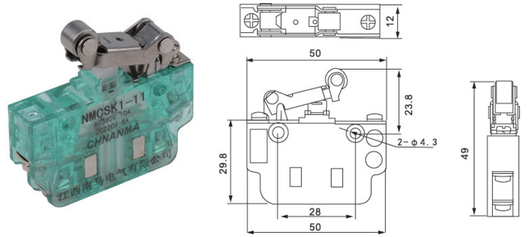
规格 Specifications

额定电压 Rated voltage	额定电流 Rated current	变形温度等级 Heat distortion temperature	绝缘电阻 Insulation resistance	耐电压 Withstand voltage	接触电阻初期值 Initial contact resistance
DC 250V	5A	≤ 120℃	≥ 100MΩ	AC 1500V	≤ 50mV
动作力 OF	回复力 RF	动作行程 PT	机械寿命 Mechanical life	电气寿命 Electrical life	端子扭力 Terminal resistance
≥ 600g	≥ 200g	3mm ± 1mm	100 万次	5 万次	1.2N

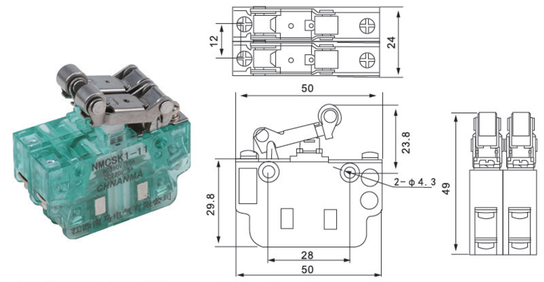
注：本图片仅供选型时参考，客户订购时敬请垂询，以保证正确购买。

Note：This picture just for customer's references ,please inquiry for details when ordering.

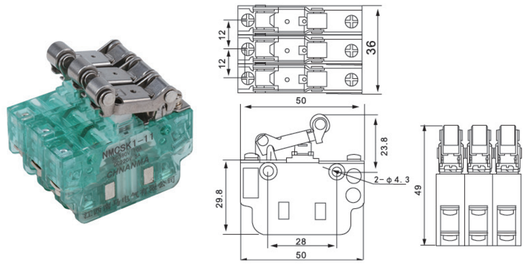
磁吹开关系列 MAGNETIC BLOW SWITCH



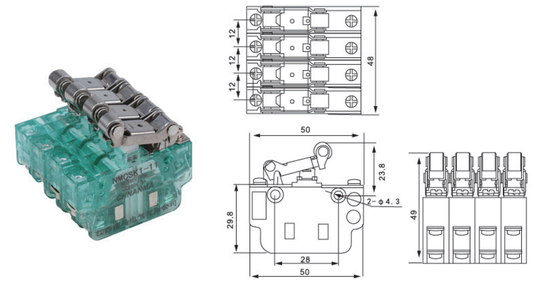
NMCSK1-11 单联 Single wheel



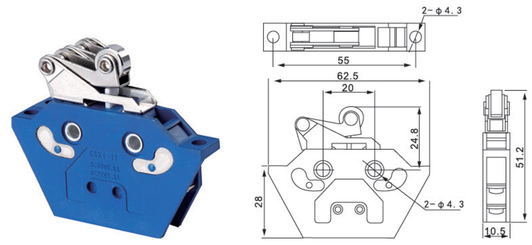
NMCSK1-22 双联 Double wheel



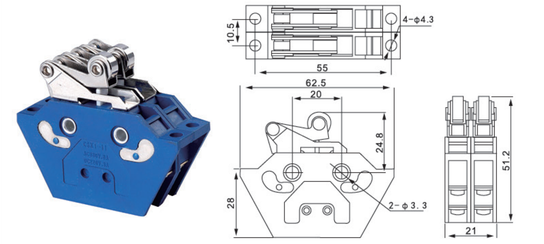
NMCSK1-33 三联 Three wheel



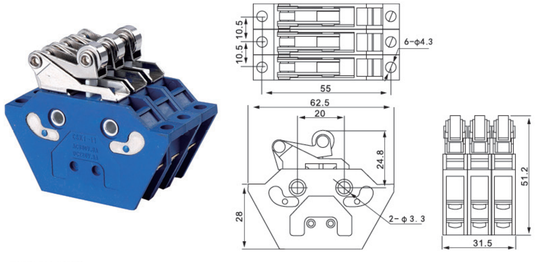
NMCSK1-22 四联 Four wheel



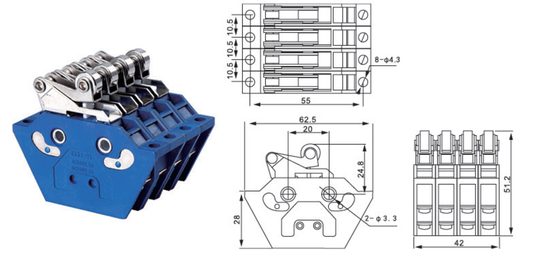
CSK-11



CSK-22

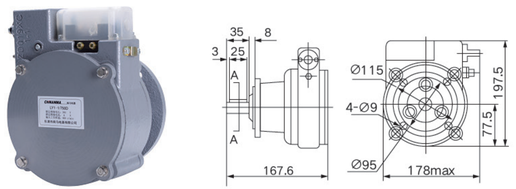


CSK-33

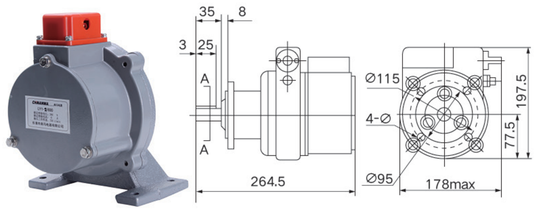


CSK-44

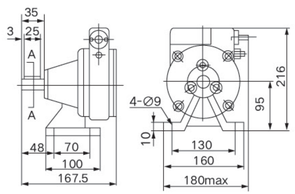
超速开关系列 Overspeed switch series



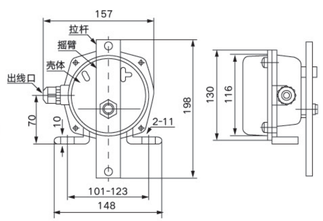
NMLY1-1/600.750.1000/D



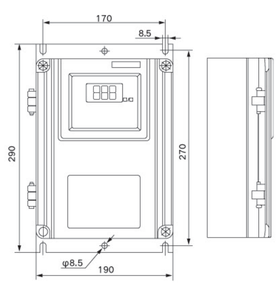
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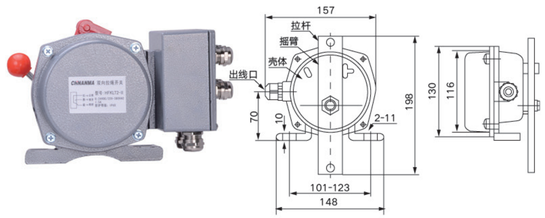
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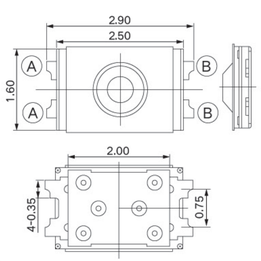
HFKPT1-12-30/F

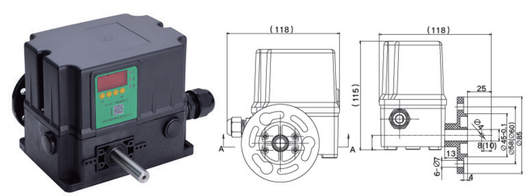
ZDH-V



HFKLT2-II/F

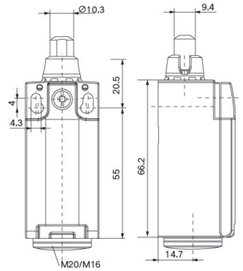



微电脑超速开关 NMLY1-1/99
Microcomputer overspeed switch

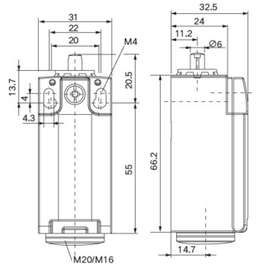


超速开关 NMDXZ-1:274CS 含编码器
Overspeed switch NMDXZ-1:274CS includes encoder

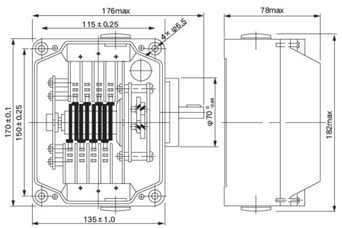
行程限位开关系列 Travel limit switch series　　红外线防撞行程开关 Infrared anti-collision stroke switch

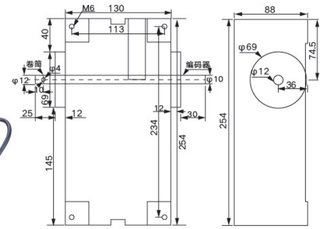
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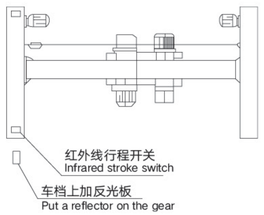
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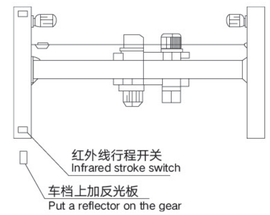
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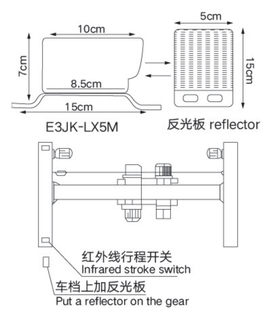
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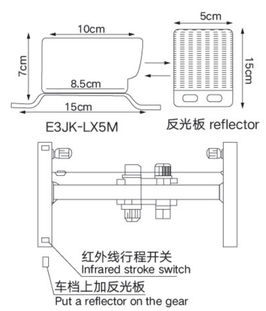
NM-YS73-R5F

NM-YS73-R5F

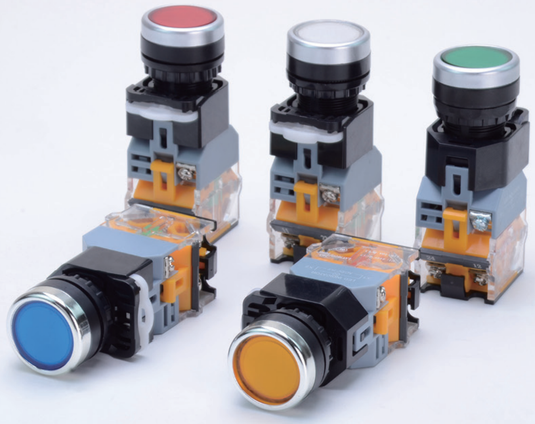



NME3LX-5M

NME3LX-5M

CHNANMA®



LA38 按钮开关 Push button switch

产品特点 Product characteristics

・多种安装尺寸：提供 φ12mm、φ16mm、φ22mm、φ25mm、φ30mm 等多种安装尺寸，满足不同需求。
・ 多样化的按钮类型：包括复位按钮、自锁按钮、带灯按钮、蘑菇钮、旋钮、钥匙钮、急停钮等，适应不同的操作需求。
・ 触点自洁功能：具有触点自洁功能，确保接触可靠。
・ 耐用材料：零部件采用进口材料，坚固耐用，耐磨损。

・ Various mountingsizes ：Provide φ12mm, φ16mm, φ22mm, φ25mm, φ30mm and other mounting sizes to meet different needs. diversified button types ：including reset button, self-locking button, button with light, mushroom button, knob, key button, emergency stop button, etc., to adapt to different operation needs.
・contact self-cleaning function ：with contact self-cleaning function to ensure reliable contact.
・Durable material ：The parts are made of imported materials, durable and wear-resistant.

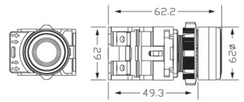
型号说明 Model Number Structure

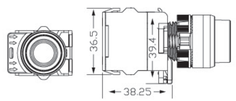
LA38 - ⊙ ■ □ ▲ ○ △

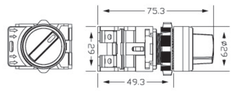
LA38-	⊙	■	□	-▲	-○	△
系列号 serial number	触点类型 Contact type	操作类型 Operation type	选择开关位置 Select switch position	需求功能 Function	颜色 color	灯电压 Lamp voltag
	01:1NC 10:1NO 02:2NC 20:2NO 11: 1NO1NC 22:11+11 03:02+01 30:20+10 04:02+02 40:20+20 12:11+01 21:11+10 13:11+02 31:11+20 常开常闭触点根据需要组合 NO/NC contact combinations based on needs.	PN: 自复平钮 PN: Self-reset flat button PNZS: 自锁平钮 PNZS: Self-locking flat button PND: 带灯自复平钮 PND: Illuminated self-rest flat button PNDZS: 带灯自锁平钮 PNDZS: Illuminated self-locking flat button GN: 自复高钮 GN: Self-reset high button GNZS: 自锁高钮 GNZS: Self-locking high button GND: 带灯自复高钮 GND: Illuminated self-reset high button GNDZS: 带灯自锁高钮 GNDZS: Illuminated self-locking high button S: 不锈钢头自复平钮 S: Stainless steel self-reset flat button SZS: 不锈钢头自锁平钮 SZS:Stainless steel self-locking flat button SD: 带灯不锈钢头自复平钮 SD: luminated stainless steel self-reset flat button SDZS: 带灯不锈钢头自锁平钮 SDZS: Illuminated stainless steel self-locking flat button M40/60: 蘑菇头自复按钮 M40/60: Mushroom self-reset button MZS40/60: 蘑菇头自锁按钮 MZS40/60: Mushroom self-locking button MD40/60: 带灯蘑菇头自复按钮 MD40/60: Illuminated mushroom self-reset button MDZS40/60: 带灯蘑菇头自锁按钮 MDZS40/60: Illuminated mushroom self-locking button ZS40/60: 急停钮 ZS40/60: E-Stop button ZSD40/60: 带灯急停钮 ZSD40/60: Illuminated E-stop button X: 旋钮 X: Knob XC: 长旋钮 XC: Long knob XD: 带灯旋钮 XD: Illuminated knob Y: 钥匙钮 Y: Key button PNSW: 双位平钮 PNSW: Twin flat pushbutton PNDSW: 带灯双位平钮 PNDSW: Illuminated flat button GNSW: 双位高钮 GNSW: Twin high pushbutton GNDSW: 带灯双位高钮 GNDSW: Illuminated twin high pushbutton	21: 二位保持式 21:Two-position holding type 22: 二位自复式 22:Two-position self-reset type 31: 三位保持式 31: Three-position holding type 32: 三位左保持右自复式 32:Three-position left-holding and right-self-reset type 33: 三位自复式 33: Three-position self-reset type	Q: 喷漆塑头部和 I 型中座 Q: Painted plastci head & type I middle C: 塑胶头部和 I 型中座 C: Plastic head & type I middle L: 铝材头部和 I 型中座 L: Alumimum head & Type I middle S: 不锈钢头部和 I 型中座 S: Stainless steel head & Type I middle FH1:" ↓ " 定制符号 FH1: " ↓ "custom code FH2:"O" 定制符号 FH2: "O" custom code FH3:"- " 定制符号 FH3:"- " custom code FH4:"= " 定制符号 FH4:"= " custom code FH5:" 启动 " 定制符号 FH5:"START" custom code FH6:"STOP" 定制符号 FH6: "STOP" custom code IP65: 定制防水按钮 IP65: Custom IP65button K: 抗干扰带灯按钮 K: Anti-interference illuminated button	部分型号可选颜色详见产品选型 / 带灯产品无黑色 For the optional colors of some types,please refer to product selection (illuminated product without black)	AC/DC 6V AC/DC 12V AC/DC 24V AC/DC 36V AC/DC 48V AC/DC 110V AC/DC 220V AC/DC 380V AC 110V AC 220V AC380V

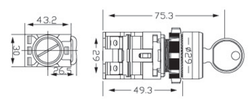
上述表格为型号解释说明，部分型号组合无实际产品，具体见产品选型或咨询厂商。
The above table is an explanatory note for models, some model combinations without actual products, see product selection or consult the manufacturer.

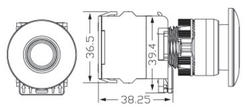
LA38 按钮开关 LA38 Push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	平头按钮 Flush push button switch	LA38-B1-10	G R Y B W K	NO -	
		LA38-B1-01		- NC	
		LA38-B1-11		1NO 1NC	
	平头自锁按钮 Flush maintained push button switch	LA38-B1-20T		2NO -	
		LA38-B1-02T		- 2NC	
		LA38-B1-22T		2NO 2NC	

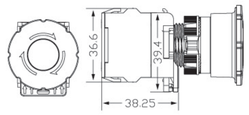
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	高位按钮 Extended push button switch	LA38-B1-10H	G R Y B W K	NO -	
		LA38-B1-01H		- NC	
		LA38-B1-11H		1NO 1NC	
	高位自锁按钮 Extended maintained push button switch	LA38-B1-20HT		2NO -	
		LA38-B1-02HT		- 2NC	
		LA38-B1-22HT		2NO 2NC	

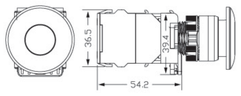
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	二位选择开关 2 position selector switch	LA38-B1-10X		NO -	
		LA38-B1-01X		- NC	
		LA38-B1-11X		1NO 1NC	
	三位选择开关 3 position selector switch	LA38-B1-20XS		2NO -	
		LA38-B1-02XS		- 2NC	
		LA38-B1-22XS		2NO 2NC	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	二位钥匙选择开关 2 position key selector switch	LA38-B1-10Y		NO -	
		LA38-B1-01Y		- NC	
		LA38-B1-11Y		1NO 1NC	
	三位钥匙选择开关 3 position key selector switch	LA38-B1-20YS		2NO -	
		LA38-B1-02YS		- 2NC	
		LA38-B1-22YS		2NO 2NC	

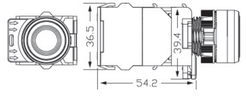
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	蘑菇头按钮 Mushroom push button switch	LA38-B1-10M	G R Y B W K	NO -	
		LA38-B1-01M		- NC	
		LA38-B1-11M		1NO 1NC	
	蘑菇头自锁按钮 Mushroom maintained push button switch	LA38-B1-20MT		2NO -	
		LA38-B1-02MT		- 2NC	
		LA38-B1-22MT		2NO 2NC	

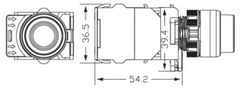
LA38 按钮开关 LA38 Push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	急停按钮 Emergency stop switch	LA38-B1-01ZS	R	- NC	
		LA38-B1-11ZS		1NO 1NC	

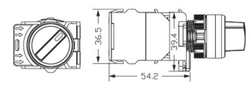
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	带灯急停按钮 Illuminated emergency stop switch	LA38-B1-01ZSD	R	- NC	
		LA38-B1-11ZSD		1NO 1NC	

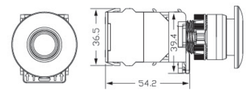
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	双键按钮 Double push button switch	LA38-B1-11R		1NO 1NC	
		LA38-B1-22R		2NO 2NC	
	带灯双键按钮 Illuminated double push button switch	LA38-B1-11RD		1NO 1NC	
		LA38-B1-22RD		2NO 2NC	

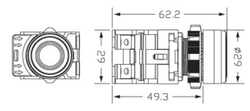
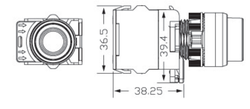
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	带灯按钮 Illuminated push button switch	LA38-B1-10D	G R Y B W	NO -	
		LA38-B1-01D		- NC	
		LA38-B1-11D		1NO 1NC	
	带灯自锁按钮 Illuminated maintained push button switch	LA38-B1-20TD		2NO -	
		LA38-B1-02TD		- 2NC	
		LA38-B1-22TD		2NO 2NC	

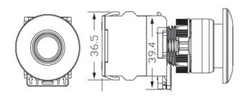
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	带灯高位按钮 Illuminated extended push button switch	LA38-B1-10HD	G R Y B W	NO -	
		LA38-B1-01HD		- NC	
		LA38-B1-11HD		1NO 1NC	
	带灯自锁高位按钮 Illuminated maintained extended push button switch	LA38-B1-20HTD		2NO -	
		LA38-B1-02HTD		- 2NC	
		LA38-B1-22HTD		2NO 2NC	

LA38 按钮开关 LA38 Push button switch

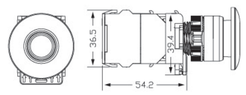
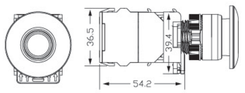
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	二位带灯选择开关 2 position illuminated selector switch	LA38-B1-10XD	G R Y B W	NO -	
		LA38-B1-01XD		- NC	
		LA38-B1-11XD		1NO 1NC	
	三位带灯选择开关 3 position illuminated selector switch	LA38-B1-20XSD		2NO -	
		LA38-B1-02XSD		- 2NC	
		LA38-B1-22XSD		2NO 2NC	

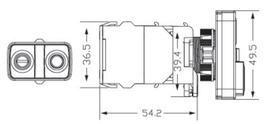
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	带灯磨菇头按钮 Illuminated mushroom push button switch	LA38-B1-10MD	G R Y B W	NO -	
		LA38-B1-01MD		- NC	
		LA38-B1-11MD		1NO 1NC	
	带灯自锁磨菇头按钮 Illuminated maintained mushroom push button switch	LA38-B1-11MD		1NO 1NC	
		LA38-B1-20MTD		2NO -	
		LA38-B1-02MTD		- 2NC	

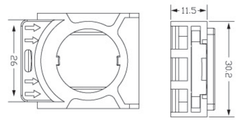
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	平头按钮 Flush push button switch	LA38-B3-10	G R Y B W K	NO -	
		LA38-B3-01		- NC	
		LA38-B3-11		1NO 1NC	
	平头自锁按钮 Flush maintained push button switch	LA38-B3-20T		2NO -	
		LA38-B3-02T		- 2NC	
	高位按钮 Extended push button switch	LA38-B3-10H	G R Y B W K	NO -	
		LA38-B3-01H		- NC	
		LA38-B3-11H		1NO 1NC	
	高位自锁按钮 Extended maintained push button switch	LA38-B3-20HT		2NO -	
		LA38-B3-02HT		- 2NC	

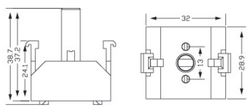
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	蘑菇头按钮 Mushroom push button switch	LA38-B3-10M	G R Y B W K	NO -	
		LA38-B3-01M		- NC	
		LA38-B3-11M		1NO 1NC	
	蘑菇头自锁按钮 Mushroom maintained push button switch	LA38-B3-11M		1NO 1NC	
		LA38-B3-20MT		2NO -	
		LA38-B3-02MT		- 2NC	

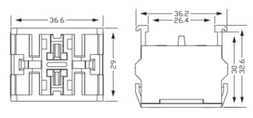
LA38 按钮开关 LA38 Push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	急停按钮 Emergency stop switch	LA38-B3-01ZS	R	- NC	
		LA38-B3-11ZS		1NO 1NC	
	带灯急停按钮 Illuminated emergency stop switch	LA38-B3-01ZSD	G R Y B W	- NC	
		LA38-B3-11ZSD		1NO 1NC	
	带灯磨菇头按钮 Illuminated mushroom push button switch	LA38-B3-10MD	R	NO -	
		LA38-B3-01MD		- NC	
		LA38-B3-11MD		1NO 1NC	
	带灯自锁磨菇头按钮 Illuminated maintained mushroom push button switch	LA38-B3-11MD		1NO 1NC	
		LA38-B-20MTD	G R Y B W	2NO -	
		LA38-B1-02MTD		- 2NC	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	带灯双键按钮 Illuminated double push button switch	LA38-B3-11R LA38-B3-22R	ON OFF START ST OP	1NO 1NC	
		LA38-B3-11RD LA38-B3-22RD	ON OFF START ST OP	2NO 2NC	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	B 型中板 B type medium bracket	LA38-B-Z	GR	-	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	B 型灯座 B type lamp holder	LA38-B-D	G R Y B W	-	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	触点 Contact block	LA38-B-01	G R	-	
		LA38-B-10			
		LA38-B-11			

AD16 按钮开关 pushbutton switch



特点 Features

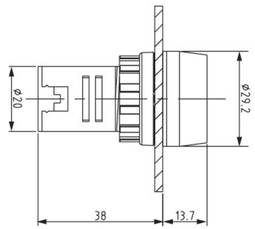
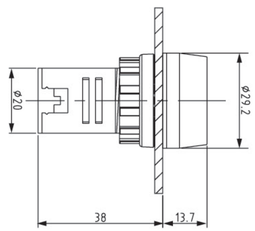
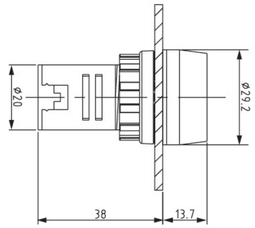
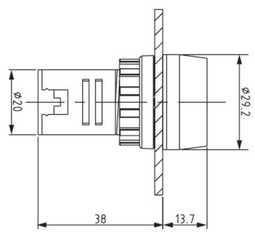
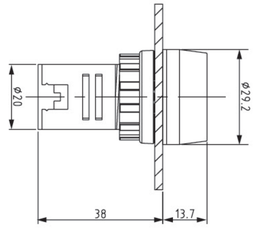
◎ 开孔尺寸：φ22mm，可通过选用变径圈来实现 φ25mm、φ30mm 的孔径；
◎ 多种头部风格，五种颜色，明确指示不同工作状态；
◎ 发光体采用纯色超高亮 led 芯片，色彩纯正，寿命可达 10 万小时；
◎ 可根据客户的需要，配置指示灯的字符内容；
◎ 零部件采用进口材料，坚固耐用，耐磨损；
◎ 内置螺钉式接线，更安全、方便。

◎ Hole opening size: φ22mm, φ25mm, φ30mm hole diameter can be realized by optional reducer ring;.
◎ Multiple head styles, five colors, clear indication of different working status;
◎ Luminous body adopts pure color super bright led chip, pure color, life time up to 100,000 hours;
◎ The character content of the indicator can be configured according to the needs of customers;
◎ Parts and components are made of imported materials, durable and wear-resistant.
◎ Built-in screw type wiring, safer and more convenient.

型号说明 Model Number Structure

AD16 - ⊙ ■ / □ - ○ △ ▲
① ② ③ ④ ⑤ ⑥ ⑦

项目 Item	代号 Code	说明 Description
①系列号 Serial number	AD16	系列号 Serial number
②安装孔径 Installation aperture	22	022mm
③功能代号 Function code	DS	指示灯 Indicator light
	M	蜂鸣器 Buzzer
	ML	连续式蜂鸣器 Continuous buzzer
	SM	闪光蜂鸣器 Flash buzzer
	SML	常亮连续式蜂鸣器 Constant bright continuous buzzer
④辅助代号 Auxiliary code	无 None	常规型 Conventional
	F	放电灯 Discharge lamp
	K	抗干扰电压 Anti-interference voltage
	FS	防水信号灯 Waterproof Indicator Light
⑤颜色 Color	○	红 绿 黄 蓝 白 黑 只有无灯蜂鸣器可选择黑色 Black is only available for no light buzzer
⑥灯电压 Lamp voltage	△	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC 48V AC/DC110V AC/DC220V AC/DC380V AC110V AC 220V AC 380V 其他特殊电压需咨询能否定做 For other special voltages ,please consult the manufacturer
⑦干扰电压 Interference voltage	▲	24V 40V 60V 90V 110V 其他特殊电压需咨询能否定做 For other special voltages ,please consult the manufacturer

外形图 Picture	颜色 color	尺寸图 Outline drawing
	R G Y B W B	
	R G Y B W B	
	R G Y B W B	
	R G Y B W B	
	R G Y B W B	

AD36 指示灯 Indicator light



产品概述 PRODUCT DESCRIPTION

AD36 系列信号指示灯均采用 LED 高度纯色，寿命长、能耗低、体积小、重量轻， 是 XD 型各类白炽灯和氖灯信号指示灯的更新换代产品， 灯罩采用高强度聚碳酸酯制成，具有良好的抗冲击性能，内置柳钉式接线，更加安全、方便。该系列信号指示灯适用于铁路、电力、电讯、机床、船舶、纺织、印刷、矿山机械等设备的线路中作信号指示、预告信号、事故信号及其他指示用信号。

Taking LED chip as the light source, AD136 series indicator light shows long service life, low energy consumption, small volume and light weight. It is the new generation product instead of XD Model incandescent lamps and neon indicating lamps. its lamp shade is made of high strength polycarbonate and with fine anti-impact capability. It is of inner screw Model connection, which makes the terminal more convenient and safer. This series of indicator lights are used as indicating, accidental signals and other pilot signal of instrument circuit in the areas of electric power, telecommunication, machinery, marine, textile, printing, mining etc.

性能特征 Performance characteristics

工作寿命 working life	⩾ 3, 0000h
瞬时电压波动立 Instantaneous voltage fluctuation	0 ± 20%(110V 以上 Above)
工频耐压 Power frequency withstand voltage	2.5KV (交流有效值 AC effective value) 1min
频率 (AC)frequency	50-60Hz
额定电流 Rated current	⩽ 20mA
光亮度 Luminance	⩾ 100cd/m2
漏电指数 Leakage index	CTI ⩾ 100, 阻燃 Flame retardancy
绝缘电阻 insulation resistance	Ui ⩽ 60V5MΩ
发光颜色 Luminescence color	R G Y W B

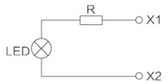
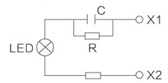
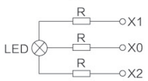
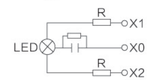
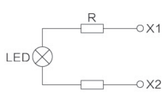
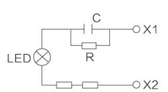
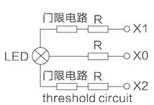
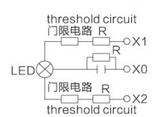
型号说明 Model Number Structure

AD36 - □ □ □ □ □ □

① ② ③ ④ ⑤ ⑥

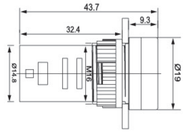
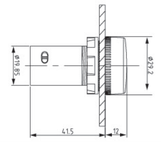
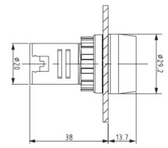
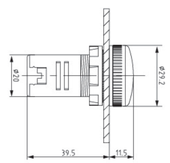
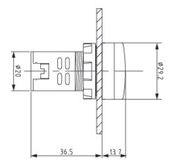
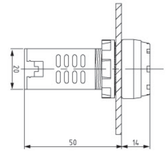
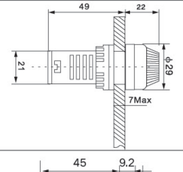
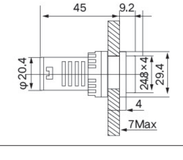
代号 Code	项目 Item
① AD36	企业专用型号 Special model for enterprise
②□	颈部产品尺寸 (φ16/22/30)Installing size of neck
③□	A、B、C、D、E、F、H 表示不同外观风格 A, B, C, D, E, F, H mean different appearance style.
④□	无字母为标准型，"S" 表示短型壳体，"F" 表示放电灯 No letter is standard Model. Mark “S” for ultra-short Model, “F” for discharge lamp.
⑤□	颜色 Color
⑥□	电压 Voltage

内部接线示意图 Internal wiring diagram

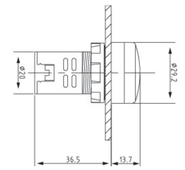
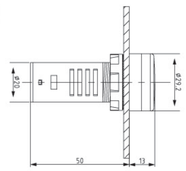
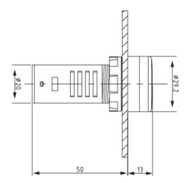
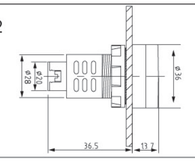
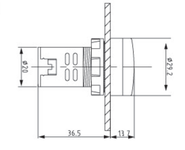
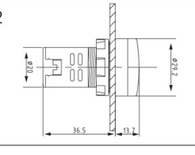
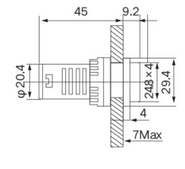
	AC/DC 型信号指示灯 AC/DC type indicator	AC 型信号指示灯 AC type indicator	AC/DC 型双色灯 AC/DC type double color lamp	AC 型双色灯 AC type double color lamp
普通型 Common Model				
抗干扰型 Anti-interference type				

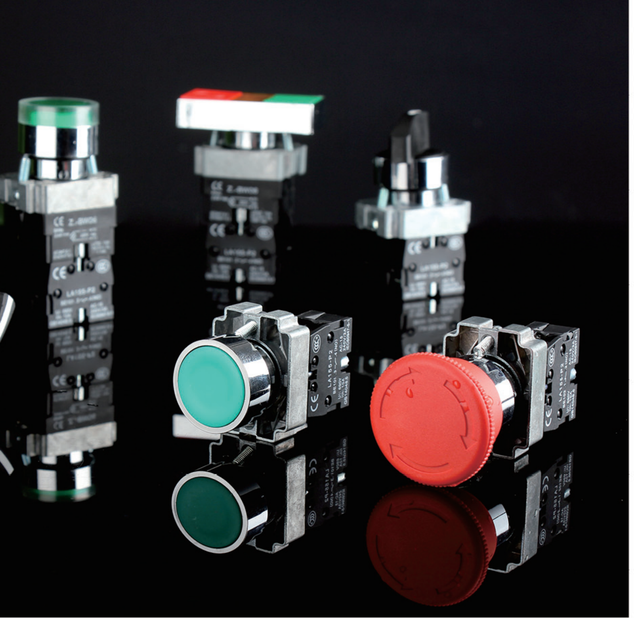
电压 Voltage	AC/DC6V	AC/DC12V	AC/DC24V	AC/DC36V	AC/DC48V	AC/DC110V	AC/DC220V	AC380V
代码 Code	21	22	23	24	25	26	28	32

AD36 指示灯 AD36 indicator light

外形图 Picture	品名 Description	型号 Model	颜色 color	尺寸图 Outline drawing
φ16 	LED. 组合式指示灯 (LED 已预装成一体不可拆分) LED combined indicator Installing size Φ16 (LED has been preinstalled into unsplit one)	AD36-16D AD36-16DS	G R Y B W	φ16 
φ22 	LED 新型线路板指示灯 (抗干扰带放电功能一体) LED new PCB type indicator (Anti-interference with discharge function integrated)Soft lighting and long life	AD36-22A	G R Y B W	φ22 
φ22 	LED. 组合式指示灯 (LED 已预装成一体不可拆分) LED combined indicator Installing size Φ22 (LED has been preinstalled into unsplit one)	AD36-22B AD36-22BS	G R Y B W	φ22 
φ22 	LED. 组合式指示灯 (LED 已预装成一体不可拆分) LED combined indicator Installing size Φ22 (LED has been preinstalled into unsplit one)	AD36-22C AD36-22CS	G R Y B W	φ22 
φ22 	LED. 短尾款组合式指示灯 (LED 已预装成一体不可拆分) LED ultra-short combined indicator Installing size Φ22 (LED has been preinstalled into unsplit one)	AD36-22D AD36-22DS	G R Y B W	φ22 
φ22 	LED. 组合式指示灯 (LED 已预装成一体不可拆分) LED combined indicator Installing size Φ22 (LED has been preinstalled into unsplit one)	AD36-22E AD36-22ES	G R Y B W	φ22 
φ22 	LED. 组合式指示灯 (LED 已预装成一体不可拆分) LED combined indicator Installing size Φ22 (LED has been preinstalled into unsplit one)	AD36-22HS	G R Y B W	φ22 
φ22 	LED. 组合式指示灯 (LED 已预装成一体不可拆分) LED combined indicator Installing size Φ22 (LED has been preinstalled into unsplit one)	AD36-22F	G R Y B W	φ22 

AD36 指示灯 AD36 indicator light

外形图 Picture	品名 Description		型号 Model	颜色 color	尺寸图 Outline drawing
φ22 φ16 	峰鸣器 Φ16 Buzzer	不闪光带鸣（M） only sound, no flash	AD36-16D/S	G R K	φ22 φ16 
		闪光带鸣（SM） flash and sound			
	峰鸣器 Φ22 Buzzer	不闪光带鸣（M） only sound, no flash	AD36-22D/S		
		闪光带鸣（SM） flash and sound			
φ22 	双色闪光灯 单色闪光灯：AD36-22 B （可以选择 B、C、D、E、H 等外型） Double color flashing lamp Installing size Φ22 Single color flashing lamp: AD36-22S1 (Body shape B, C, D, E, H for choice)		AD36-22D/B	G R	φ22 
φ22 	双色接地位置指示灯 Double color grounding position indicator		AD36-22W/N	G R	φ22 
	双色隔离刀闸位置指示 Double color disconnecting switch indicator		AD36-22W/G		
	双色断路器位置指示 Double color circuit breaker indicator		AD36-22W/D		
φ22 	LED. 组合式指示灯 (LED 已预装成一体不可拆分) LED combined indicator Installing size Φ30 (LED has been preinstalled into unsplit one)		AD36-30D	G R Y B W	φ22 
φ22 	电压指示灯适用于开孔 Φ22 Voltage indicator lamp Installing size Φ22		AD36-22DSV	G R Y B W	φ22 
	电流指示灯适用于开孔 Φ22 Ampere indicator lamp Installing size Φ22		AD36-22DSA		
φ22 	电流电压指示灯适用于开孔 Φ22 Ampere and Voltage indicator Installing size Φ22		AD36-22DSVA	G R Y B W	φ22 
φ22 	电压指示灯 适用于开孔 Φ22 Voltage indicator Installing size Φ22		AD36-22VMS	G R Y B W	φ22 
	电流指示灯 适用于开孔 Φ22 Ampere indicator lamp Installing size Φ22		AD36-22AMS		
	电流电压指示灯 适用于开孔 Φ22 Ampere and Voltage indicator Installing size Φ22		AD36-22VAM		



NB2- 按钮开关 Push button switch

产品概述 PRODUCT DESCRIPTION

在实际的使用中，为了防止误操作，通常在按钮上做出不同的标记或涂以不同的颜色加以区分，其颜色有红、黄、蓝、白、黑、绿等。一般红色表示“停止”或“危险”情况下的操作；绿色表示“启动”或“接通”。急停按钮必须用红色蘑菇头按钮。按钮必须有金属的防护挡圈，且挡圈要高于按钮帽防止意外触动按钮而产生误动作。安装按钮的按钮板和按钮盒的材料必须是金属的并与机械的总接地母线相连。

In actual use, in order to prevent misoperation, different marks are usually made on the button or painted with different colors to distinguish, the colors are red, yellow, blue, white, black, green and so on. General red indicates "stop" or "dangerous" operation; Green indicates Enabled or Connected. The emergency stop button must be a red mushroom button. The button must have a metal protective ring, and the ring should be higher than the button cap to prevent accidental touching of the button and resulting in misaction. The material of the button plate and button box for mounting the button must be metal and connected to the general ground bus of the machine.

产品概述 PRODUCT DESCRIPTION

- 多种安装尺寸：提供 φ12mm、φ16mm、φ22mm、φ25mm、φ30mm 等多种安装尺寸，满足不同需求。
- 多样化的按钮类型：包括复位按钮、自锁按钮、带灯按钮、蘑菇钮、旋钮、钥匙钮、急停钮等，适应不同的操作需求。
- 触点自洁功能：具有触点自洁功能，确保接触可靠。
- 耐用材料：零部件采用进口材料，坚固耐用，耐磨损。
- 发光体：带灯按钮采用纯色超高亮 LED，光亮度大于 100cd/m2。
- 防护等级：防护等级高达 IP65，具备出色的防水防尘性能。
- 认证：获得 CE、UL、3C 等国际认证，确保产品的高质量和可靠性。

- Various mounting sizes ：Provide φ12mm, φ16mm, φ22mm, φ25mm, φ30mm and other mounting sizes to meet different needs.
diversified button types ：including reset button, self-locking button, button with light, mushroom button, knob, key button, emergency stop button, etc., to adapt to different operation needs.
- contact self-cleaning function ：with contact self-cleaning function to ensure reliable contact.
- Durable material ：The parts are made of imported materials, durable and wear-resistant.
- Luminous body ：The button with light uses a solid color ultra-bright LED, the brightness is greater than 100cd/m2.
- protection level ：protection level up to IP65, with excellent waterproof and dustproof performance.

Certification ：We have obtained CE, UL, 3C and other international certifications to ensure the high quality and reliability of our products.

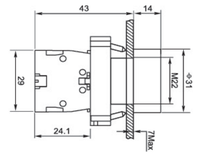
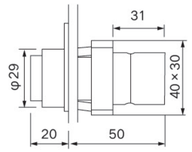
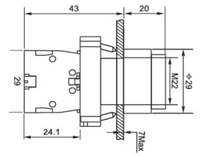
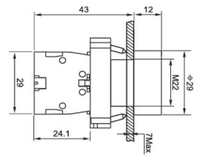
结构原理 Structural principle

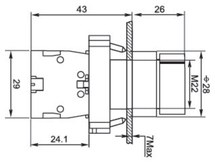
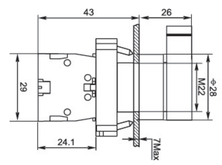
按钮开关的结构种类很多，可分为普通揿钮式、蘑菇头式、自锁式、自复位式、旋柄式、带指示灯式、带灯符号式及钥匙式等，有单钮、双钮、安钮及不同组合形式。一般是采用积水式结构，由按钮帽、复位弹簧、静触头、动触头和外壳等组成，通常做成复合式，有一对常闭触头和常开触头，有的产品可通过多个元件的串联增加触头对数。还有一种自持式按钮，按下后即可自动保持闭合位置，断电后才能打开。

在按钮未按下时，动触头与上面的静触头是接通的，这对触头称为常闭触头。此时，动触头与下面的静触头是断开的，这对触头称为常开触头：按下按钮，常闭触头断开，常开触头闭合；松开按钮，在复位弹簧的作用下恢复原来的工作状态。

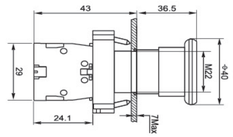
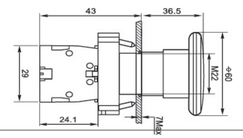
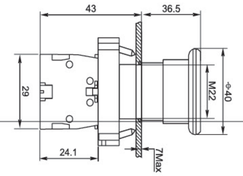
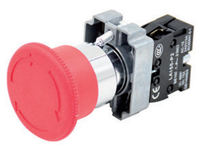
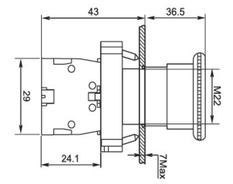
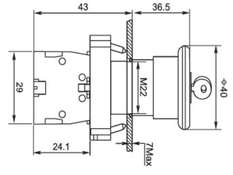
There are many types of button switch structure, which can be divided into ordinary snap button type, mushroom head type, self-locking type, self-resetting type, handle type, with indicator light type, with light symbol type and key type, etc., there are single button, double button, button and different combination forms. Generally, it is a water-standing structure, composed of button cap, reset spring, static contact, moving contact and shell, etc., usually made of compound, with a pair of normally closed contacts and normally open contacts, and some products can increase the number of contacts through the series of multiple components. There is also a self-supporting button, which can automatically maintain the closed position after being pressed, and can be opened after the power is turned off.
When the button is not pressed, the moving contact is connected with the static contact above, which is called the normally closed contact. At this time, the moving contact is disconnected from the following static contact, which is called normally open contact: press the button, normally closed contact is disconnected, normally open contact is closed; Release the button and restore the original working state under the action of the reset spring.

NB2- 按钮开关 NB2- push button switch

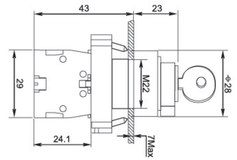
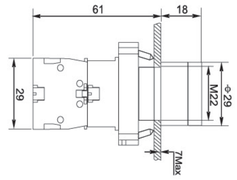
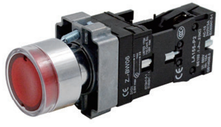
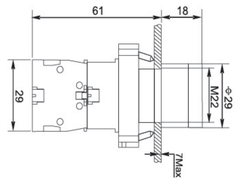
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	平头按钮 Flush push button switch	NB2-BA21	G R Y B W K	NO -	
		NB2-BA31		NO -	
		NB2-BA51		NO -	
		NB2-BA61		NO -	
		NB2-BA42		- NC	
		NB2-BA35		NO NC	
	平头自锁按钮 Flush maintained push button switch	NB2-BZ11	G R Y B W K	NO -	
		NB2-BZ21		NO -	
		NB2-BZ31		NO -	
		NB2-BZ51		NO -	
		NB2-BZ61		NO -	
		NB2-BZ42		- NC	
	凸头按钮 Extended push butto switch	NB2-BL21	G R Y B W K	NO -	
		NB2-BL31		NO -	
		NB2-BL51		NO -	
		NB2-BL61		NO -	
		NB2-BL42		- NC	
		NB2-BL35		NO NC	
	平头按钮 Flush push button switch	NB2-BA3311		NO -	
		NB2-BA3341		NO -	
		NB2-BA3351		NO -	
		NB2-BA4322		- NC	
		NB2-BA4342		- NC	
		NB2-BA4325		NO NC	

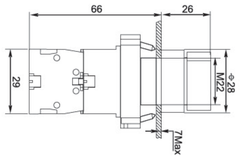
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	二位选择开关 Two position rotation button switch	NB2-BD21		NO -	
		NB2-BD25		NO NC	
		NB2--BD41		NO -	
		NB2-BD45		NO NC	
	三位选择开关 Three position rotation button switch	NB2-BD33		2NO -	
		NB2-BD53		2NO -	
		NB2-BD73		2NO -	
	二位长柄选择开关 2 Position with long handle switch	NB2-BJ21		NO -	
		NB2-BJ25		NO NC	
		NB2-BJ41		2NO -	
		NB2-BJ45		2NO -	
	三位长柄选择开关 3 Position with long handle switch	NB2-BJ33		2NO -	
		NB2-BJ53		2NO -	
		NB2-BJ73		2NO -	

NB2- 按钮开关 NB2- push button switch

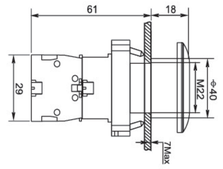
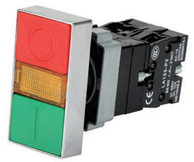
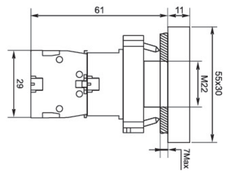
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	蘑菇头按钮 Mushroom push button switch Φ40mm	NB2-BC21	G R Y B W K	NO -	
		NB2-BC31		NO -	
		NB2-BC51		NO -	
		NB2-BC61		NO -	
		NB2-BC42		- NC	
		NB2-BC35		NO NC	
		NB2-BC45		NO NC	
	蘑菇头按钮 Mushroom push button switch Φ60mm	NB2-BR21	G R	NO -	
		NB2-BR31		NO -	
		NB2-BR42		- NC	
	按拉式急停 Push-pull push button switch Φ40mm Φ60mm	NB2-BT42	R	- NC	
		NB2-BT45		NO NC	
		NB2-BX42		- NC	
		NB2-BX45		NO NC	
	转动复位急停 Emergency stop push button switch Φ30mm Φ40mm Φ60mm	NB2-BS442	G R B W K	- NC	
		NB2-BS445		NO NC	
		NB2-BS521		NO -	
		NB2-BS531		NO -	
		NB2-BS542		- NC	
		NB2-BS545		NO NC	
		NB2-BS621		NO -	
		NB2-BS631		NO -	
		NB2-BS642		- NC	
	钥匙复位急停 (Ronis n ° 455) Emergency stop push button with key Φ40mm	NB2-BS142		- NC	
		NB2-BS145		NO NC	

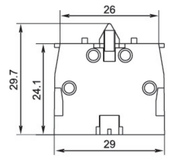
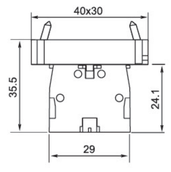
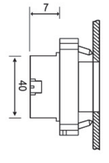
NB2- 按钮开关 NB2- push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	二位钥匙选择开关 2 position key selector switch	NB2-BG21		NO -	
		NB2-BG25		NO NC	
		NB2-BG41		NO -	
		NB2-BG45		NO NC	
		NB2-BG61		NO -	
		NB2-BG65		NO NC	
	三位钥匙选择开关 3 position key selector switch	NB2-BG33		2NO -	
		NB2-BG53		2NO -	
		NB2-BG63		2NO -	
		NB2-BG73		2NO -	
	带灯按钮开关 直接式 Button switch with lamp Direct formula switch	NB2-BW3161	G R Y B W	NO -	
		NB2-BW3361		NO -	
		NB2-BW3462		- NC	
		NB2-BW3561		NO -	
		NB2-BW3661		NO -	
	带灯按钮开关 阻容式 Button switch with lamp Resistance capacity	NB2-BW3171		NO -	
		NB2-BW3371		NO -	
		NB2-BW3472		- NC	
		NB2-BW3571		NO -	
		NB2-BW3671		NO -	
	带灯按钮开关 直接式 带灯自锁按钮 Push button with lamp maintained	NB2-BZ3161	G R Y B W	NO -	
		NB2-BZ3361		NO -	
		NB2-BZ3462		- NC	
		NB2-BZ3561		NO -	
		NB2-BZ3661		NO -	
	带灯按钮开关 阻容式 带灯自锁按钮 Illuminated push button Resistance capacity Self locking button with lamp	NB2-BZ3171		NO -	
		NB2-BZ3371		NO -	
		NB2-BZ3472		- NC	
		NB2-BZ3571		NO -	
		NB2-BZ3671		NO -	

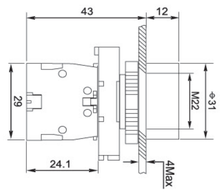
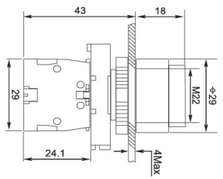
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	二位带灯选择开关 2 position illuminated selector	NB2-BK2365	G R Y B W	NO NC	
		NB2-BK2465		NO NC	
		NB2-BK2565		NO NC	
		NB2-BK2665		NO NC	
		NB2-BK2765		NO NC	
	三位带灯选择开关 3 position illuminated selector	NB2-BK3365	G R Y B W	NO NC	
		NB2-BK3465		NO NC	
		NB2-BK3565		NO NC	
		NB2-BK3665		NO NC	
		NB2-BK3765		NO NC	

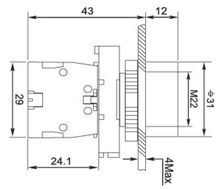
NB2- 按钮开关 NB2- push button switch

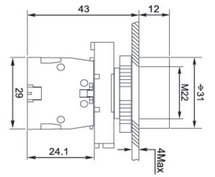
外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	带灯磨菇头按钮 Illuminated mushroom push button switch	NB2-BW4161	G R Y B W	NO -	
		NB2-BW4361		NO -	
		NB2-BW4462		- NC	
		NB2-BW4561		NO -	
		NB2-BW4661		NO -	
	双键按钮 Double push button switch	NB2-BL8325		NO NC	
		NB2-BL8425		NO NC	
	带灯双键按钮 Illuminated double push button switch	NB2-BW8365		NO NC	
		NB2-BW8465		NO NC	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	辅助 / 可替换的触点 螺旋压入式电子 Contact block	NB2-BE101	-	NO -	
		NB2-BE102		- NC	
	带 1/2 个触点模块的基座用于按钮及 2 位选择开关和钥匙开关 The middle base with contact block	NB2-BZ101	-	NO -	
		NB2-BZ102		- NC	
		NB2-BZ103		2NO -	
	全电压灯泡 直接插入式灯座 Bottom seat of button with lamp Direct Model	NB2-BV6	-		
		NB2-BW06			

NB2- 按钮开关 NB2- push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	平头按钮 Flush push button switch	NB2-EA11	G R Y B W	NO -	
		NB2-EA21		NO -	
		NB2-EA31		NO -	
		NB2-EA51		NO -	
		NB2-EA61		NO -	
		NB2-EA22		NO -	
		NB2-EA42		- NC	
		NB2-EA35		NO NC	
		NB2-EA45		NO NC	
	凸头按钮 Extended push button switch	NB2-EL21		NO -	
		NB2-EL31		NO -	
		NB2-EL51		NO -	
		NB2-EL61		NO -	
		NB2-EL22		- NC	
		NB2-EL42		- NC	
		NB2-EL35		NO NC	
		NB2-EL45		NO NC	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	带罩按钮 Push button with waterproof cover switch	NB2-EP21	G R Y B W	NO -	
		NB2-EP31		NO -	
		NB2-EP51		NO -	
		NB2-EP61		NO -	
		NB2-EP42		- NC	
		NB2-EP35		NO NC	
		NB2-EP45		NO NC	

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	标志式 平头按钮 Flush push button with mark switch	NB2-EA3311		NO -	
		NB2-EA3341		NO -	
		NB2-EA3351		NO -	
		NB2-EA4322		- NC	
		NB2-EA4342		- NC	
		NB2-EA4325		NO NC	
		NB2-EA4345		NO NC	



LA 金属按钮开关
Metal push button switch

产品概述 PRODUCT DESCRIPTION

在实际的使用中，为了防止误操作，通常在按钮上做出不同的标记或涂以不同的颜色加以区分，其颜色有红、黄、蓝、白、黑、绿等。一般红色表示“停止”或“危险”情况下的操作；绿色表示“启动”或“接通”。急停按钮必须用红色蘑菇头按钮。按钮必须有金属的防护挡圈，且挡圈要高于按钮帽防止意外触动按钮而产生误动作。安装按钮的按钮板和按钮盒的材料必须是金属的并与机械的总接地母线相连。

In actual use, in order to prevent misoperation, different marks are usually made on the button or painted with different colors to distinguish, the colors are red, yellow, blue, white, black, green and so on. General red indicates "stop" or "dangerous" operation; Green indicates Enabled or Connected. The emergency stop button must be a red mushroom button. The button must have a metal protective ring, and the ring should be higher than the button cap to prevent accidental touching of the button and resulting in misaction. The material of the button plate and button box for mounting the button must be metal and connected to the general ground bus of the machine.

产品概述 PRODUCT DESCRIPTION

- 多种安装尺寸：提供 φ12mm、φ16mm、φ22mm、φ25mm、φ30mm 等多种安装尺寸，满足不同需求。
- 多样化的按钮类型：包括复位按钮、自锁按钮、带灯按钮、蘑菇钮、旋钮、钥匙钮、急停钮等，适应不同的操作需求。
- 触点自洁功能：具有触点自洁功能，确保接触可靠。
- 耐用材料：零部件采用进口材料，坚固耐用，耐磨损。
- 发光体：带灯按钮采用纯色超高亮 LED，光亮度大于 100cd/m2。
- 防护等级：防护等级高达 IP65，具备出色的防水防尘性能。
- 认证：获得 CE、UL、3C 等国际认证，确保产品的高质量和可靠性。

- Various mounting sizes ：Provide φ12mm, φ16mm, φ22mm, φ25mm, φ30mm and other mounting sizes to meet different needs.
diversified button types ：including reset button, self-locking button, button with light, mushroom button, knob, key button, emergency stop button, etc., to adapt to different operation needs.
- contact self-cleaning function ：with contact self-cleaning function to ensure reliable contact.
- Durable material ：The parts are made of imported materials, durable and wear-resistant.
- Luminous body ：The button with light uses a solid color ultra-bright LED, the brightness is greater than 100cd/m2.
- protection level ：protection level up to IP65, with excellent waterproof and dustproof performance.

Certification ：We have obtained CE, UL, 3C and other international certifications to ensure the high quality and reliability of our products.

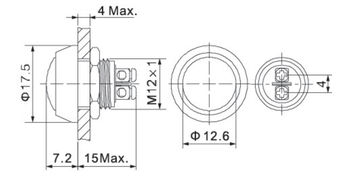
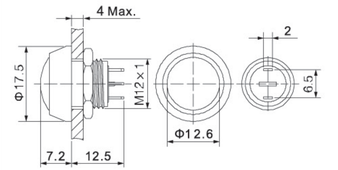
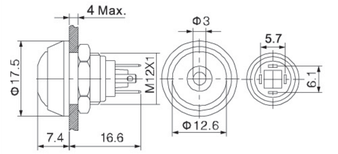
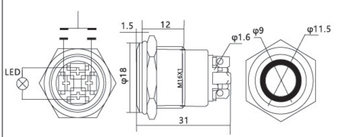
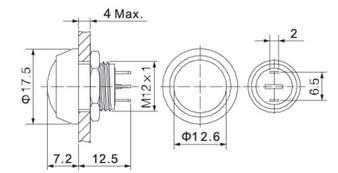
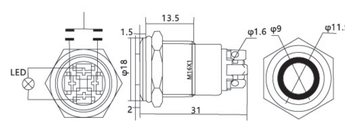
结构原理 Structural principle

按钮开关的结构种类很多，可分为普通揿钮式、蘑菇头式、自锁式、自复位式、旋柄式、带指示灯式、带灯符号式及钥匙式等，有单钮、双钮、安钮及不同组合形式。一般是采用积水式结构，由按钮帽、复位弹簧、静触头、动触头和外壳等组成，通常做成复合式，有一对常闭触头和常开触头，有的产品可通过多个元件的串联增加触头对数。还有一种自持式按钮，按下后即可自动保持闭合位置，断电后才能打开。

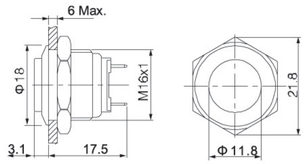
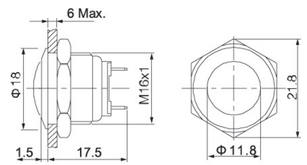
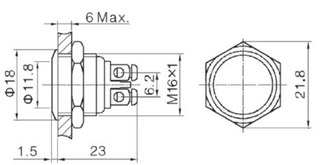
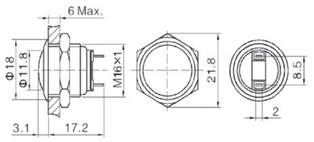
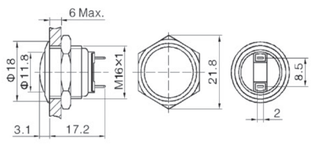
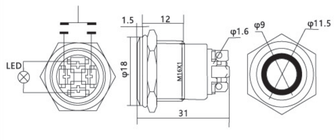
在按钮未按下时，动触头与上面的静触头是接通的，这对触头称为常闭触头。此时，动触头与下面的静触头是断开的，这对触头称为常开触头：按下按钮，常闭触头断开，常开触头闭合；松开按钮，在复位弹簧的作用下恢复原来的工作状态。

There are many types of button switch structure, which can be divided into ordinary snap button type, mushroom head type, self-locking type, self-resetting type, handle type, with indicator light type, with light symbol type and key type, etc., there are single button, double button, button and different combination forms. Generally, it is a water-standing structure, composed of button cap, reset spring, static contact, moving contact and shell, etc., usually made of compound, with a pair of normally closed contacts and normally open contacts, and some products can increase the number of contacts through the series of multiple components. There is also a self-supporting button, which can automatically maintain the closed position after being pressed, and can be opened after the power is turned off.
When the button is not pressed, the moving contact is connected with the static contact above, which is called the normally closed contact. At this time, the moving contact is disconnected from the following static contact, which is called normally open contact: press the button, normally closed contact is disconnected, normally open contact is closed; Release the button and restore the original working state under the action of the reset spring.

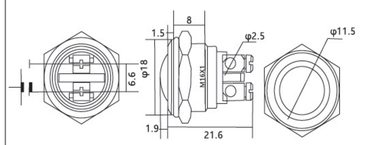
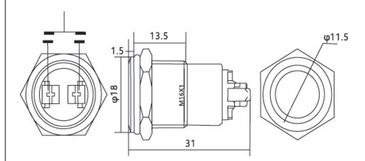
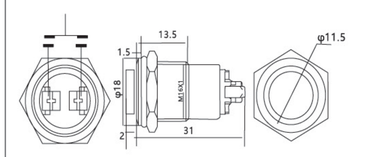
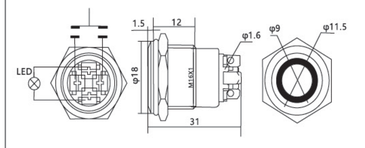
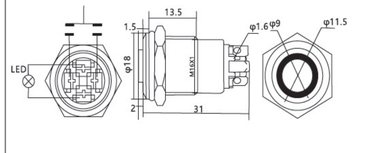
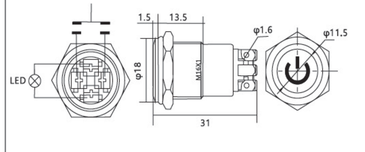
LA 金属按钮开关 LA push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	金属塑料平头按钮 High strength color push button switch φ12mm	LA-G12-10	G R Y B W K	NO	
	金属塑料头球形按钮 High strength color push button switch φ12mm	LA-G12-Q10/J	G R Y B W K	NO	
	金属塑料头带灯按钮 High strength color push button switch φ12mm	LA-G12-10 △ /J	G R Y B W	NO	
	高位按钮 High flat round push button switch φ12mm	LA-G12K-10H	-	NO	
	球形按钮 High strength anti-break push button switch φ12mm	LA-G12S-Q10/J	-	NO	
	高位环形带灯按钮 High ring lamp button switch φ12mm	LA-G12S-11HE △	G R Y B W O P	1NO+1NC	

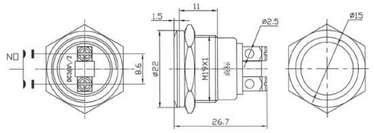
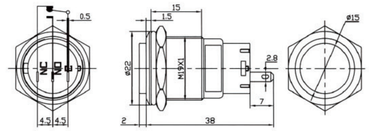
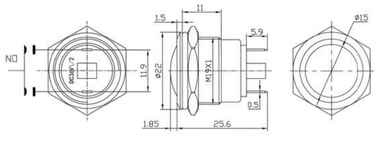
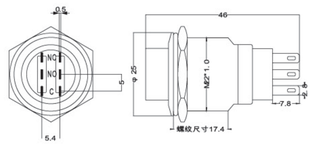
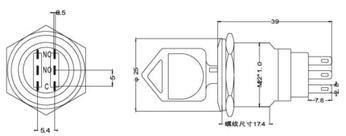
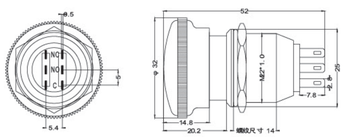
LA 金属按钮开关 LA push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	球型高位按钮 Ball type high button switch φ16mm	LA-G16S-10H	-	NO	
	球形平头按钮 Spherical flat head button switch φ16mm	LA-G16S-Q10	-	NO	
	平头按钮 Flat push button switch φ16mm	LA-G16S-10	-	NO	
	高位按钮 High flat round push button switch φ16mm	LA-G16S-10H/J	-	NO	
	球形平头按钮 Spherical flat head button switch φ16mm	LA-G16S-Q10/J	-	NO	
	平头环形带灯按钮 Flat head ring illuminated button switch φ16mm	LA-G16S-11E △	G R Y B W O P	1NO+1NC	

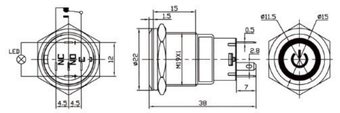
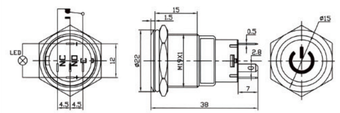
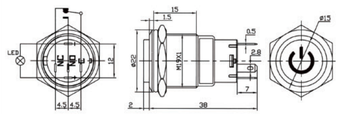
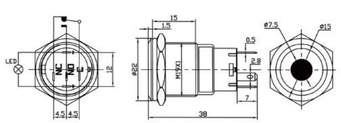
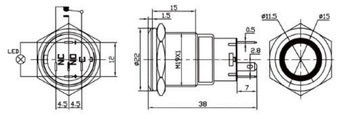
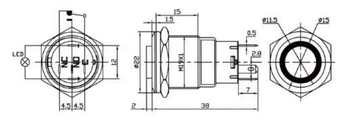
LA 金属按钮开关 LA push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	球型按扭开关 Ball button switch button φ16mm	LA-G16S-Q10/J	-	NO	
	平头按扭开关 Flat head button switch φ16mm	LA-G16S-10/J	-	NO	
	球型高位按扭开关 Ball type high position switch φ16mm	LA-G16S-11HT	-	1NO+1NC	
	平头环形带灯 按扭开关 Flat head belt lamppush-button switch φ16mm	LA-G16S-11E △	G R Y B W O P	1NO+1NC	
	高位环形带灯 按扭开关 High position ring lamp button switch φ16mm	LA-G16S-11HE △	G R Y B W O P	1NO+1NC	
	平头环形电源 带灯按扭开关 Flat head ring power switch with lamp switch φ16mm	LA-G16S-11EDY △	G R Y B W O P	1NO+1NC	

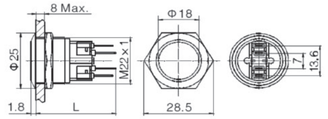
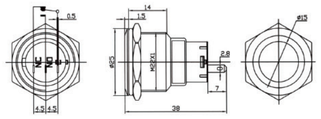
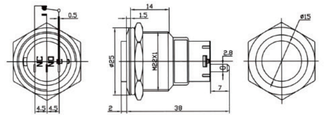
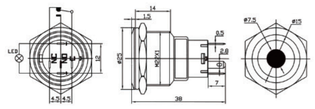
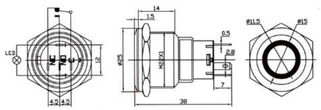
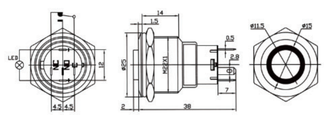
LA 金属按钮开关 LA push button switch

外形图 Picture	品名 Description	型号 Model	触点类型 Contact type	尺寸图 Outline drawing
	平头按钮 Flush push button switch φ19mm	LA-G19S-10	NO	
	高位按钮 High flat round push button switch φ19mm	LA-G19S-10H	NO	
	球形平头按钮 High strength anti-break push button switch φ19mm	LA-G19S-Q10	NO	
	选择开关 Rotary button φ19mm	LA-G19S-11X/J	1NO+1NC	
		LA-G19S-22XS/J	2NO+2NC	
	选择钥匙选择开关 Rotary key switch φ19mm	LA-G19S-11Y/J	1NO+1NC	
		LA-G19S-22YS/J	2NO+2NC	
	急停按钮 Emergency button switch φ19mm	LA-G19S-11ZS/J	1NO+1NC	
		LA-G19S-22ZS/J	2NO+2NC	

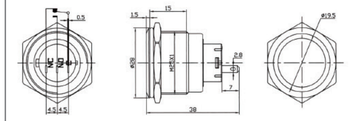
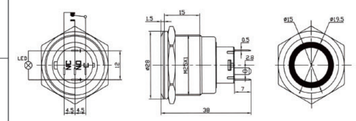
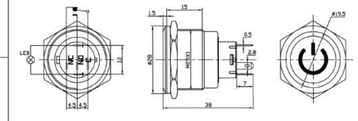
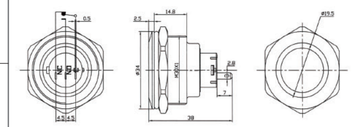
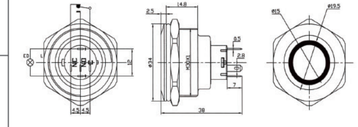
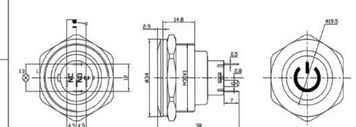
LA 金属按钮开关 LA push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	平头环形电源带灯按钮 Flat head power supply Illuminated PUSH BUTTON φ16mm	LA-G19S-10EDY/J △	G R Y B W O P	NO	
	电源带灯按钮 Metal dot illuminated push button switch φ19mm	LA-G19S-11DY/J △	G R Y B W O P	1NO+1NC	
	高位电源带灯按钮 High power Illuminated push button φ19mm	LA-G19S-11HDY/J △	G R Y B W O P	1NO+1NC	
	球形平头带灯按钮 Spherical flat head Light button switch φ19mm	LA-G19S-10D/J △	G R Y B W O P	NO	
	平头环形带灯按钮 Flat head ring illuminated push button φ19mm	LA-G19S-10E/J △	G R Y B W O P	NO	
	高位环形带灯按钮 High ring illuminated push button φ19mm	LA-G19S-10HE/J △	G R Y B W O P	NO	

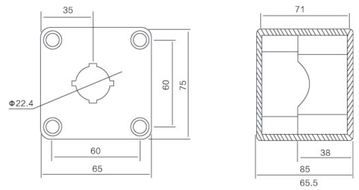
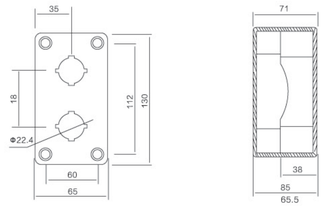
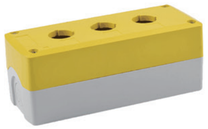
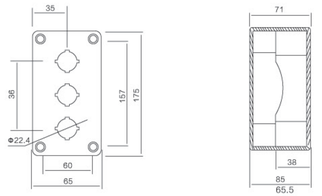
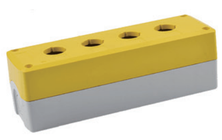
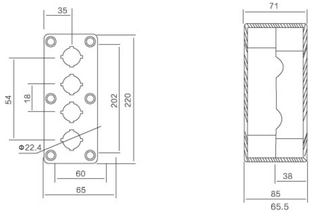
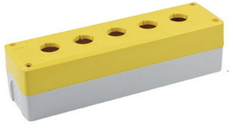
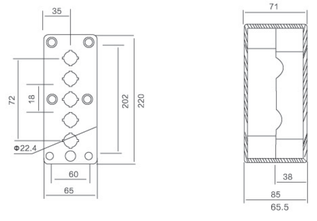
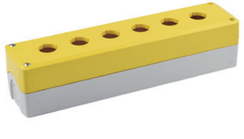
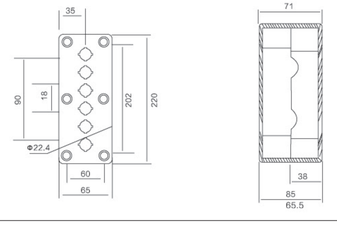
LA 金属按钮开关 LA push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	球形平头按钮 High strength anti-break push button switch φ22mm	LA-G22S-11/J	-	1NO+1NC	
		LA-G22S-Q11		1NO+1NC	
	自锁按钮 Flat push button switch φ22mm	LA-G22S-11T/J	-	1NO+1NC	
		LA-G22S-Q11T		1NO+1NC	
	高位自锁按钮 High flat round push button switch φ22mm	LA-G22S-11H/J	-	1NO+1NC	
		LA-G22S-11HT		1NO+1NC	
		LA-G22S-Q11H		1NO+1NC	
	平头带灯按钮 Illuminated push button switch(LED) φ22mm	LA-G22S-Q11D △	G R Y B W O P	1NO+1NC	
		LA-G22S-11D/J △		1NO+1NC	
		LA-G22S-11TD △		1NO+1NC	
	平头环形带灯按钮 Flat head ring illuminated push button φ22mm	LA-G22S-Q11E △	G R Y B W O P	1NO+1NC	
		LA-G22S-11E/J △		1NO+1NC	
		LA-G22S-11TE △		1NO+1NC	
	高位环形带灯按钮 High ring illuminated push button φ22mm	LA-G22S-Q11HE △	G R Y B W O P	1NO+1NC	
		LA-G22S-11HE/J △		1NO+1NC	
		LA-G22S-11HTE △		1NO+1NC	

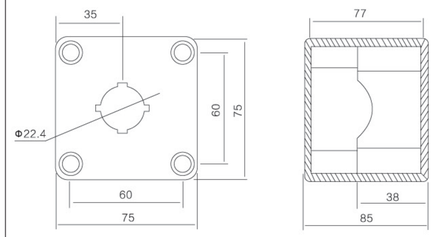
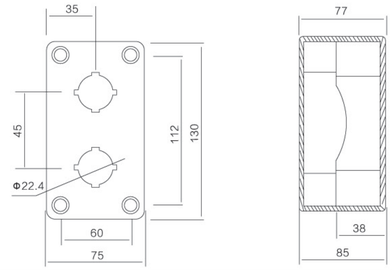
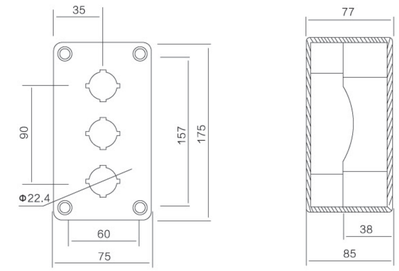
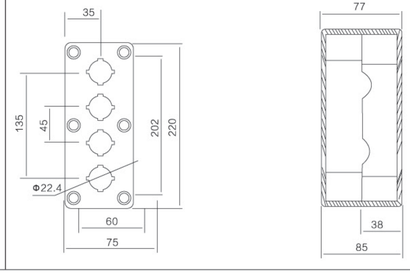
LA 金属按钮开关 LA push button switch

外形图 Picture	品名 Description	型号 Model	颜色 color	触点类型 Contact type	尺寸图 Outline drawing
	平头按钮 Flush push button switch φ25mm	LA-G25S-11/J	-	1NO+1NC	
	平头环形带灯按钮 Flat head ring lamp button switch φ25mm	LA-G25S-11E/J △	G R Y B W O P	1NO+1NC	
		LA-G25S-11TE/J △		1NO+1NC	
	平头环形电源带灯按钮 Ring power button with lamp switch φ25mm	LA-G25S-11EDY/J △	G R Y B W O P	1NO+1NC	
		LA-G25S-11TEDY/J △		1NO+1NC	
	平头按钮 Flush push button φ30mm	LA-G30S-11/J	-	1NO+1NC	
		LA-G30S-11		1NO+1NC	
	平头环形带灯按钮 Flat head ring lamp button φ30mm	LA-G30S-11E/J △	G R Y B W O P	1NO+1NC	
		LA-G30S-11E △		1NO+1NC	
	平头环形电源带灯 Flat head ring lamp button φ30mm	LA-G30S-11TEDY/J △	G R Y B W O P	1NO+1NC	
		LA-G30S-11TEDY/J △		1NO+1NC	

按钮开关 / 按钮盒 Button switch/button box

外形图 Picture	品名 Description	型号 Model	尺寸图 Outline drawing
 L:65 W:75 H:65.5	一孔按钮盒 (塑料型) 1 hole push button box (Plastic type)	LA155-X1	
 L:130 W:75 H:65.5	二孔按钮盒 (塑料型) 2 hole push button box (Plastic type)	LA155-X2	
 L:175 W:75 H:65.5	三孔按钮盒 (塑料型) 3 hole push button box (Plastic type)	LA155-X3	
 L:220 W:75 H:65.5	四孔按钮盒 (塑料型) 4 hole push button box (Plastic type)	LA155-X4	
 L:245 W:75 H:65.5	五孔按钮盒 (塑料型) 5 hole push button box (Plastic type)	LA155-X5	
 L:285 W:75 H:65.5	六孔按钮盒 (塑料型) 6 hole push button box (Plastic type)	LA155-X6	

按钮开关 / 按钮盒 Button switch/button box

外形图 Picture	品名 Description	型号 Model	尺寸图 Outline drawing
	一孔高位按钮盒 (塑料型) 1 hole high push button box (Plastic type)	LA155-PX1	
	二孔高位按钮盒 (塑料型) 2 hole high push button box (Plastic type)	LA155-PX2	
	三孔高位按钮盒 (塑料型) 3 hole high push button box (Plastic type)	LA155-PX3	
	四孔高位按钮盒 (塑料型) 4 hole high push button box (Plastic type)	LA155-PX4	

 NB2-V1

 NB2-V2

 NB2-V3-1

 NB2-V4-1

 NB2-V5-1