

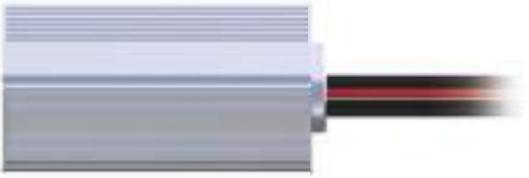


CONTROLLERS /

MAIN FEATURES

Multi-function DC brushless motor controller with UART communication function, ultra-quiet function, power-off brake, anti-flying function, self-check function, three-stage speed regulation, anti-theft function. The controller shell is made of alloy aluminum, which has high impact strength. The surface is finely ground and sprayed with fine sand, and the appearance is exquisite and detailed. The controller has reliable process and stable performance. The inside of the product is glued and waterproofed, which effectively guarantees the waterproof performance of the product IPX5.

UART 通讯功能、超静音功能、断电刹车、防飞车功能、自检功能、三档分级调速、防盗功能等多功能为一体的直流无刷电机控制器。控制器外壳采用合金铝材质，抗冲击强度高。表面精研磨喷细砂工艺，外观精美细致。该控制器工艺可靠、性能稳定。产品内部采用灌胶防水方式，有效保证产品 IPX5 的防水性能。

**MCU-6-CXX /**

认证 /Certifications	RoHS
尺寸 /Size	L 85mm W 53mm H 30mm
防水 /Waterproof	IPX5
额定功率 /Rated Power[W]	250/350
额定电流 /Rated Current [A]	7
额定电压 /Rated Voltage(DCV)	36/48
电流限制 /Current Limit [A]	15/18
工作温度 /Operating Temperature	-20~45°C
协议 / Protocol	CAN/UART
控制类型 / Control Type	Sine Wave

MCU-9-CXX /

认证 /Certifications	RoHS
尺寸 /Size	L 112mm W 53mm H 30mm
防水 /Waterproof	IPX5
额定功率 /Rated Power[W]	500/750
额定电流 /Rated Current [A]	12
额定电压 /Rated Voltage(DCV)	36/48
电流限制 /Current Limit [A]	20/22
工作温度 /Operating Temperature	-20~45°C
协议 / Protocol	CAN/UART
控制类型 / Control Type	Sine Wave

**MCU-12-CXX /**

认证 /Certifications	RoHS
尺寸 /Size	L 122mm W 55mm H 40mm
防水 /Waterproof	IPX5
额定功率 /Rated Power[W]	750/1000
额定电流 /Rated Current [A]	15/20
额定电压 /Rated Voltage(DCV)	48/52
电流限制 /Current Limit [A]	25/30
工作温度 /Operating Temperature	-20~45°C
协议 / Protocol	CAN/UART
控制类型 / Control Type	Sine Wave

**MCU-9*2-AXX /**

认证 /Certifications	RoHS
尺寸 /Size	L 130mm W 65mm H 56mm
防水 /Waterproof	IPX5
额定功率 /Rated Power[W]	500/750
额定电流 /Rated Current [A]	12/15
额定电压 /Rated Voltage(DCV)	48/52
电流限制 /Current Limit [A]	20/25
工作温度 /Operating Temperature	-20~45°C
协议 / Protocol	CAN/UART
控制类型 / Control Type	Sine Wave





HMI /

MAIN FEATURES

The appearance is small and minimalist. Power-assisted thumb throttle, to meet the needs of scooters, mopeds, and vehicle models; The meter can be distinguished between two functions with and without communication according to market demand.

外形小巧极简设计风格。指拨助力，满足滑板车、助力车、车型使用需求；仪表可按市场需求做带通讯与不带通讯两种功能区别。



DZ11 /

仪表小巧圆润设计风格；4按键功能操作；仪表显示界面LED/LCD两种方式可选，仪表显示界面简洁，显示效果清晰，满足滑板车、助力车等车型使用需求。
The display has a small and round design style; 4-button function operation; The display interface have LED / LCD for options. The display interface is simple and the display effect is clear. It meets the needs of scooters and mopeds etc.

RoHS

标准 /Approval	RoHS
尺寸 /Size	L 63.5mm W 46.5mm H 43mm
重量 /Weight	65g
材料 /Material	ABS
电源 /Power	DC 24V/36V/48V/60V
电流 /Current	18mA ~ 25mA /36V

屏幕类型 /Screen Type	1.25"LCD[FSTN]/1.25"LED[FSTN]
协议 /Protocol	UART
防水 /Waterproof	IPX5
功能 /Function	ODO / TRIP / Speed / Battery Indicator / Light status / Error Alarm / Gear selection etc.



160PDD /

产品将仪表、刹把、电控按键结构整合三位一体设计，简化组装工序，使车把更显简洁风格。仪表与刹把设计角度呈45°夹角设计，将最佳显示面向骑行者。
The product integrates the trinity design of the instrument, brake, and switch structure to reduce the assembly process and make the handlebar more concise.
The design angle of the instrument and the brake lever is 45 °, and the best display angle is facing the rider.

RoHS

标准 /Approval	RoHS
尺寸 /Size	L 165mm W 115mm H 57mm
重量 /Weight	145g
材料 /Material	PC+ABS Aluminum alloy
电源 /Power	DC 24V/36V/48V
电流 /Current	18mA ~ 25mA /36V



124DX+HT390 /

本液晶仪表，结合了码表功能与助力指拨转把功能一体设计，简化装配工序、线束整合出线降低成本；外形小巧极简设计风格，满足滑板车、助力车、电动车多种车型使用需求；可根据不同市场地域设置切换公里或英里显示单位，以满足不同市场。
This LCD meter combines the functions of a stopwatch and a power assist thumb throttle to simplify the assembly process and reduce the cost of wiring harness integration. The compact and minimalist design style meets the needs of scooters, mopeds, and various models of electric vehicles. Switch kilometers or miles display units according to different market area settings to meet different markets.

RoHS

标准 /Approval	RoHS
尺寸 /Size	L 178.2mm W 59.8mm H 47.45mm
重量 /Weight	112g
材料 /Material	ABS+TPR/PVC
电源 /Power	DC 24V/36V/48V/60V
电流 /Current	18mA ~ 25mA /36V

屏幕类型 /Screen Type	1.25"LCD[FSTN]
协议 /Protocol	UART
防水 /Waterproof	IPX5
功能 /Function	ODO / TRIP / Speed / Battery Indicator / Light status / Error Alarm / Gear selection etc.



DZ22 /

外形小巧极简设计风格，指拨、半把、全把三种搭配；满足滑板车、助力车、电动车多种车型使用需求；仪表带USB接口，实现在骑行中给其它电子产品电力续航。
Compact and minimalist design style, with three combinations of thumb throttle, half twist throttle and full twist throttle to meet the needs of various models of scooters, mopeds and various models of electric vehicles; The instrument has a USB port to support the power of other electronic products during cycling.

RoHS

标准 /Approval	RoHS
尺寸 /Size	L 83.5mm W 68.5mm H 74mm
重量 /Weight	104g
材料 /Material	ABS/PC
电源 /Power	DC 24V/36V/48V/60V
电流 /Current	18mA ~ 25mA /36V

MAIN FEATURES

This LCD meter combines the functions of a stopwatch and a power assist thumb throttle to simplify the assembly process and reduce the cost of wiring harness integration. The compact and minimalist design style meets the needs of scooters, mopeds, and various models of electric vehicles. Switch kilometers or miles display units according to different market area settings to meet different markets.

本液晶仪表，结合了码表功能与助力指拨转把功能一体设计，简化装配工序、线束整合出线降低成本；外形小巧极简设计风格，满足滑板车、助力车、电动车多种车型使用需求；可根据不同市场地域设置切换公里或英里显示单位，以满足不同市场。



124DX+HT375 /

标准 /Approval	RoHS
尺寸 /Size	L 161.7mm W 59.8mm H 47.45mm
重量 /Weight	102g
材料 /Material	ABS+TPR/PVC
电源 /Power	DC 24V/36V/48V/60V
电流 /Current	18mA ~ 25mA /36V

屏幕类型 /Screen Type	1.25"LCD(FSTN)
协议 /Protocol	UART
防水 /Waterproof	IP65
功能 /Function	ODO / TRIP / Speed / Battery Indicator / Light status / Error Alarm / Gear selection etc.

RoHS



124DX/3 /

标准 /Approval	RoHS
尺寸 /Size	L 72mm W 60mm H 68mm
重量 /Weight	67g
材料 /Material	ABS+TPR/PVC
电源 /Power	DC 24V/36V/48V/60V
电流 /Current	18mA ~ 25mA /36V

屏幕类型 /Screen Type	1.25"LCD(FSTN)
协议 /Protocol	UART
防水 /Waterproof	IP65
功能 /Function	ODO / TRIP / Speed / Battery Indicator / Light status / Error Alarm / Gear selection etc.

RoHS



DZ16 /

LED 显示效果清晰、显示内容简洁；仪表为滑板车中置嵌入式安装结构；仪表设计小巧结构占用空间小，视窗采用超声波焊接工艺，防水防尘等级达 IP65；可根据不同市场地域设置切换公里或英里显示单位，以满足不同市场。

The LED display effect is clear and the display content is concise; The meter is a built-in embedded installation structure of the scooter; The compact design of the meter occupies a small space, the window adopts ultrasonic welding technology, and the waterproof and dustproof level reaches IP65; It can switch kilometers or Miles display units to suit different markets.

标准 /Approval	RoHS
尺寸 /Size	L 59mm W 65.5mm H 40.5mm
重量 /Weight	67g
材料 /Material	ABS/PC
电源 /Power	DC 24V/36V/48V/60V
电流 /Current	18mA ~ 25mA /36V



DZ27 /

LED 显示效果清晰、显示内容简洁；仪表为滑板车中置嵌入式安装结构；仪表设计小巧结构占用空间小，仪表外壳可按客户车型设计定制。

The LED display effect is clear and the display content is concise; The instrument is a built-in embedded installation structure of the scooter; The compact design of the instrument occupies little space, and the instrument shell can be customized according to the customer's model design.

标准 /Approval	RoHS
尺寸 /Size	L 50mm W 59mm H 40.5mm
重量 /Weight	67g
材料 /Material	ABS/PC
电源 /Power	DC 24V/36V/48V/60V
电流 /Current	18mA ~ 25mA /36V



HALL SENSOR THROTTLES /

MAIN FEATURES

The appearance of the product is simple, tough, ergonomic, light and comfortable; the main body uses PC+ABS, which has good comprehensive performance and high impact resistance; Teflon high temperature resistant wire, adapt to various harsh environments ; Environmental protection of materials, RoHS certification

产品外观简洁、硬朗、符合人体工程操作，手感轻盈、舒适；铁氟龙耐高温电线，适应各种恶劣环境；材料环保，Rosh 认证

NEW



268X /

选用 PC+ABS 高性能阻燃材料，安全、轻巧、耐用；选用铁氟龙耐高温电线，能适应各种恶劣环境；采用 U 型把横管 + 内走线方式，美观、抗扭强度高、走线安全、不易损坏；霍尔全封闭灌胶工艺，防水达到 IPX7 级；采用油门加双按键的多功能结构，结构紧凑，操作便捷，为更高效的产品组合提供品组合提供有力的空间基础。

PC+ABS high-performance flame-retardant materials are used, safe, light and durable; Teflon high temperature resistant wires are used, which can adapt to various harsh environments; U-tube installation+ internal wiring method, beautiful, high torsional strength, safe wiring, and not easy to damage; Hall fully enclosed glue filling process, waterproof to IPX7; Adopts multifunctional structure of throttle and double buttons, compact structure, convenient operation , to provide a strong space foundation for more efficient product portfolio.

标准 /Approval	RoHS
尺寸 /Size	L67mm W47mm H32mm
重量 /Weight	51g
防水 /Waterproof	IPX7
材料 /Material	PC+ABS、TPR
芯线 /Wiring	5 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20° ~ 60°
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 50°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle



268X-2

采用圆型把横管 + 外走线方式
Round-tube installation+ external wiring method

RoHS

NEW



288X /

采用 U 型把横管 + 内走线方式，美观、抗扭强度高、走线安全、不易损坏；霍尔全封闭灌胶工艺，防水达到 IPX7 级；设计冗余系统，双霍尔双磁钢双输出，确保万无一失。

U-tube installation+ internal wiring method, beautiful, high torsional strength, safe wiring, and not easy to damage; Hall fully enclosed glue filling process, waterproof to IPX7; Design a redundant system, dual Hall, dual magnetic steel, dual output, to ensure nothing is lost.

标准 /Approval	RoHS
尺寸 /Size	L60mm W30mm H47.6mm
重量 /Weight	37g
防水 /Waterproof	IPX7
材料 /Material	PC+ABS
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 50°
旋转强度 /Spin Intensity	>4N.m
耐久性 /Durability	100000 mating cycle



270X /

指拨操控，采用侧走线方式，可顺从把横管排线，更美观；铁氟龙耐高温电线，适应各种恶劣环境；材料环保，RoHS 认证；达到 IPX7 级的最高强悍防水能力（全浸水）

Thumb control, stylish and exquisite; Adopting the side wiring method, it can obey the handlebar pipe, which is more beautiful ; Teflon high temperature resistant wire, adapt to various harsh environments; Environmental protection of materials, RoHS certification; Achieve the highest tough waterproof ability of IPX7 level (full immersion).

标准 /Approval	RoHS
尺寸 /Size	L64mm W44mm H27mm
重量 /Weight	38g
防水 /Waterproof	IPX7
材料 /Material	PC+ABS、TPR
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 50°
旋转强度 /Spin Intensity	>6N.m
耐久性 /Durability	100,000 mating cycle



216X /



指拨操控，适配 U 型管安装；采用内侧走线方式，可顺从把横管排线，更美观；铁氟龙耐高温电线，适应各种恶劣环境；达到 IPX4 级防水性能；材料环保，RoHS 认证。
Thumb control, stylish and exquisite,U-tube installation; The inner wiring method can be used to line the horizontal pipe, which is more beautiful ; Teflon high temperature resistant wire, adapt to various harsh environments; Achieve IPX4 waterproof performance; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L64mm W24mm H43.5mm
重量 /Weight	32g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C~ 60°C
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 50°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle



130X /



结构简单、工艺可靠、性能稳定；高强度塑胶外壳，轻巧、耐用；铁氟龙耐高温电线，适应各种恶劣环境；材料环保，RoHS 认证。
130X/2 指拨操控更加符合人体工程操作，超大按键区域，手感更加轻盈舒适。

Simple structure, reliable process and stable performance; High-strength plastic shell, lightweight and durable; Teflon high temperature resistant wire, adapt to various harsh environments; Environmental protection of materials, RoHS certification.
130X/2 Thumb control ergonomic operation, large button area, light and comfortable.

标准 /Approval	RoHS
尺寸 /Size	L60mm W30mm H47.6mm
重量 /Weight	39g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C~ 60°C
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 50°
旋转强度 /Spin Intensity	>4N.m
耐久性 /Durability	100000 mating cycle



230X/2 /



指拨操控，适配 U 型管安装；采用内侧走线方式，可顺从把横管排线，更美观；铁氟龙耐高温电线，适应各种恶劣环境；达到 IPX4 级防水性能；材料环保，RoHS 认证。

Thumb control, stylish and exquisite,U-tube installation; The inner wiring method can be used to line the horizontal pipe, which is more beautiful ; Teflon high temperature resistant wire, adapt to various harsh environments; Achieve IPX4 waterproof performance; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L65mm W28.5mm H46mm
重量 /Weight	40g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C~ 60°C
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 50°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle



106DX /



结构简单、工艺可靠、性能稳定；高强度塑胶外壳，轻巧、耐用；夹紧式铝合金锁紧环，锁紧更稳固；3 档电量显示，电量一目了然；材料环保，RoHS 认证。

Simple structure, reliable process and stable performance; High-strength plastic shell ; Clamping aluminum alloy locking ring for more stable locking; 3 levels of power display, power at a glance; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L69mm W69mm H30mm
重量 /Weight	46g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS
芯线 /Wiring	6 Pins

电压 /Voltage	24V/36V/48V/60V/72V
工作温度 /Operating Temperature	-20°C~ 60°C
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 53°
旋转强度 /Spin Intensity	>5N.m
耐久性 /Durability	100,000 mating cycle



108X-R /



108X-L /



结构简单、工艺可靠、性能稳定；高强度塑胶外壳，轻巧、耐用；符合人体工程操作，超大按键区域，手感轻盈、舒适；铁氟龙耐高温电线，适应各种恶劣环境；材料环保，RoHS 认证
Simple structure, reliable process and stable performance; High-strength plastic shell, lightweight and durable; Ergonomic operation, large button area, light and comfortable; Teflon high temperature resistant wire, adapt to various harsh environments; Environmental protection of materials, RoHS certification.

标准 /Approval

RoHS

尺寸 /Size

L46mm W46mm H59mm

重量 /Weight

47g

防水 /Waterproof

IPX5

材料 /Material

ABS、PA66/GF20

芯线 /Wiring

3 Pins

电压 /Voltage

Working voltage 5v

输出电压 /Output voltage

0.8-4.2V

工作温度 /Operating Temperature	-20°C~ 60°C
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 65°
旋转强度 /Spin Intensity	>5N.m
耐久性 /Durability	100,000 mating cycle



188X /



112DXS+HT375 /



电锁开关、安全操控；高强度塑胶外壳；夹紧式铝合金锁紧环，锁紧更稳固；采用电镀工艺区域装饰，显高档、更美观；材料环保，RoHS 认证
Electric lock switch, safety control; High-strength plastic shell, lightweight and durable; Clamping aluminum alloy locking ring for more stable locking; Using electroplating technology to decorate the area, showing high-grade and more beautiful; Environmental protection of materials, RoHS certification.

标准 /Approval

RoHS

尺寸 /Size

L141mm W84mm H62mm

重量 /Weight

220g

防水 /Waterproof

IPX4

材料 /Material

PC+ABS、PVC

芯线 /Wiring

5 Pins

电压 /Voltage

24V/36V/48V/60V

工作温度 /Operating Temperature

-20°C~ 60°C

电线拉脱力 /Wire Tension

>130N

旋转角度 /Rotation Angle

0° ~ 70°

旋转强度 /Spin Intensity

>9N.m

耐久性 /Durability

100,000 mating cycle



112DX+HT386 /



工艺可靠、性能稳定；高强度塑胶外壳；夹紧式铝合金锁紧环，锁紧更稳固；采用电镀工艺区域装饰，显高档、更美观；四挡电量显示，一目了然；达到IPX4级防水能力；材料环保，RoHS认证。

Reliable process and stable performance; High-strength plastic shell, lightweight and durable; Clamping aluminum alloy locking ring for more stable locking; Using electroplating technology to decorate the area, showing high-grade and more beautiful; Four levels display at a glance; Achieve IPX4 waterproof performance; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L150mm W31mm H67mm
重量 /Weight	145g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、PVC
芯线 /Wiring	6 Pins

电压 /Voltage	36V/48V/60V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle



272X+HT478 /



主体选用PC+ABS 综合性能好 抗冲击强度高；内置轴承 颠覆传统设计 操作顺滑；固定环外置设计 锁紧不影响旋转结构；搭配配套把套，固定环可完美隐藏；内走线设计，整车搭配简洁美观；霍尔全封闭灌胶工艺，防水达到IP65级。

the main body uses PC+ABS, which has good comprehensive performance and high impact resistance; the fixed ring is designed externally, and the locking does not affect the rotating structure; with the matching grip cover, the fixed ring can be perfectly hidden; the internal wiring design, the whole vehicle is simple and beautiful ; Hall fully enclosed glue filling process, waterproof to IP65 level.

标准 /Approval	RoHS
尺寸 /Size	L67mm W40mm H46mm
重量 /Weight	62g
防水 /Waterproof	IP65
材料 /Material	PC+ABS
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20° ~ 60°
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 50°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle



112X/2+HT386 /



工艺可靠、性能稳定；高强度塑胶外壳；夹紧式铝合金锁紧环，锁紧更稳固；采用电镀工艺区域装饰，显高档、更美观；达到IPX4级防水能力；材料环保，RoHS认证。

Reliable process and stable performance; High-strength plastic shell, lightweight and durable; Clamping aluminum alloy locking ring for more stable locking; Using electroplating technology to decorate the area, showing high-grade and more beautiful; Achieve IPX4 waterproof performance; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L150mm W31mm H67mm
重量 /Weight	130g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、PVC
芯线 /Wiring	5 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle



298X+T246 /



适配U型管安装；铁氟龙耐高温电线，适应各种恶劣环境；并排双霍尔，自动检索备用切换，达更高安全系数；采用密封件密封内部活动区域，达到IP67级尘密性能；电器部件全密封灌胶，达到IPX7级的最高强悍防水能力（全浸水）。

U-tube installation; Teflon high temperature resistant wire, adapt to various harsh environments; Double Hall side by side, automatic retrieval and standby switching, achieving higher safety factor; Using seals to seal the internal active area to achieve IP6 dust tight performance; Electrical components are fully sealed and filled with glue, reaching the highest IPX7 level of strong waterproof capability (full water immersion).

标准 /Approval	RoHS
尺寸 /Size	L140.5mm W50mm H58mm
重量 /Weight	95g
防水 /Waterproof	IP67
材料 /Material	PC+ABS
芯线 /Wiring	6 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20° ~ 60°
电线拉脱力 /Wire Tension	>60N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

122DX+HT418 /



电锁开关、安全操控；高强度塑胶外壳；夹紧式铝合金锁紧环，锁紧更稳固；采用电镀工艺区域装饰，显高档、更美观；4档电量显示，电量一目了然，欠压提醒；材料环保，RoHS认证。
Electric lock switch, safety control; High-strength plastic shell, lightweight and durable; Clamping aluminum alloy locking ring for more stable locking; Using electroplating technology to decorate the area, showing high-grade and more beautiful; 4 levels of power display, power at a glance, under voltage reminder; Environmental protection of materials, RoHS certification.

标准 /Approval

RoHS

尺寸 /Size

L150mm W66mm H85mm

重量 /Weight

130g

防水 /Waterproof

IPX4

材料 /Material

PC+ABS、PVC

芯线 /Wiring

6 Pins

电压 /Voltage

24V/36V/48V/60V

工作温度 /Operating Temperature

-20°C ~ 60°C

电线拉脱力 /Wire Tension

>130N

旋转角度 /Rotation Angle

0° ~ 70°

旋转强度 /Spin Intensity

>9N.m

耐久性 /Durability

100,000 mating cycle

122DX/4+HT450 /



电锁开关、安全操控；高强度塑胶外壳；夹紧式铝合金锁紧环，锁紧更稳固；采用电镀工艺区域装饰，显高档、更美观；模拟液晶显示效果，显高档；材料环保，RoHS认证。
Electric lock switch, safety control; High-strength plastic shell, lightweight and durable; Clamping aluminum alloy locking ring for more stable locking; Using electroplating technology to decorate the area, showing high-grade and more beautiful; Simulation of LCD display effect, looks upscale; Environmental protection of materials, RoHS certification.

标准 /Approval

RoHS

尺寸 /Size

L149mm W66mm H85mm

重量 /Weight

209g

防水 /Waterproof

IPX4

材料 /Material

PC+ABS、TPR

芯线 /Wiring

9 Pins

电压 /Voltage

24V/36V/48V/60V

工作温度 /Operating Temperature

-20°C ~ 60°C

电线拉脱力 /Wire Tension

>130N

旋转角度 /Rotation Angle

0° ~ 70°

旋转强度 /Spin Intensity

>9N.m

耐久性 /Durability

100,000 mating cycle



122DX/2+HT386 /



电锁开关、安全操控；高强度塑胶外壳；夹紧式铝合金锁紧环，锁紧更稳固；采用电镀工艺区域装饰，显高档、更美观；4档电量显示，电量一目了然，欠压提醒；材料环保，RoHS认证。
Electric lock switch, safety control; High-strength plastic shell, lightweight and durable; Clamping aluminum alloy locking ring for more stable locking; Using electroplating technology to decorate the area, showing high-grade and more beautiful; 4 levels of power display, power at a glance, under voltage reminder; Environmental protection of materials, RoHS certification.

标准 /Approval

RoHS

尺寸 /Size

L150mm W66mm H85mm

重量 /Weight

110g

防水 /Waterproof

IPX4

材料 /Material

PC+ABS、PVC

芯线 /Wiring

6 Pins

电压 /Voltage

24V/36V/48V/60V

工作温度 /Operating Temperature

-20°C ~ 60°C

电线拉脱力 /Wire Tension

>130N

旋转角度 /Rotation Angle

0° ~ 70°

旋转强度 /Spin Intensity

>9N.m

耐久性 /Durability

100,000 mating cycle

198X+HT386 /

标准 /Approval

RoHS

尺寸 /Size

L130mm W62.5mm H50mm

重量 /Weight

130g

防水 /Waterproof

IPX4

材料 /Material

PC+ABS、PVC

芯线 /Wiring

5 Pins

电压 /Voltage

Working voltage 5v Output voltage 0.8-4.2V

工作温度 /Operating Temperature

-20°C ~ 60°C

电线拉脱力 /Wire Tension

>130N

旋转角度 /Rotation Angle

0° ~ 70°

旋转强度 /Spin Intensity

>9N.m

耐久性 /Durability

100,000 mating cycle

158X+HT406 /



工艺可靠、性能稳定；高强度塑胶外壳；开放式侧盖，便于维修；夹紧式铝合金锁紧环，锁紧更稳固；EMC电磁兼容性设计，电磁环境可靠运行；材料环保，RoHS认证。

Reliable process and stable performance; High-strength plastic housing; Open side cover for easy maintenance; Clamping aluminum alloy locking ring for more stable locking; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L136.5mm W36mm H43mm
重量 /Weight	100g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

162DX+HT406 /



工艺可靠、性能稳定；高强度塑胶外壳；开放式侧盖，便于维修；3档电量显示，电量一目了然，欠压提醒；EMC电磁兼容性设计，电磁环境可靠运行；材料环保，RoHS认证。

Reliable process and stable performance; High-strength plastic housing; Open side cover for easy maintenance; 3 levels of power display, power at a glance, under voltage reminder; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L139mm W47mm H56mm
重量 /Weight	110g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	7 Pins

电压 /Voltage	24V/36V/48V/60V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

160X+HT406 /



工艺可靠、性能稳定；高强度塑胶外壳；开放式侧盖，便于维修；夹紧式铝合金锁紧环，锁紧更稳固；EMC电磁兼容性设计，电磁环境可靠运行；材料环保，RoHS认证。

Reliable process and stable performance; High-strength plastic housing; Open side cover for easy maintenance; Clamping aluminum alloy locking ring for more stable locking; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L138.5mm W41.5mm H55mm
重量 /Weight	105g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	5 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

158X/2+HT430 /



工艺可靠、性能稳定；高强度塑胶外壳；开放式侧盖，便于维修；铁氟龙耐高温电线，适应各种恶劣环境；EMC电磁兼容性设计，电磁环境可靠运行；达到IPX4级防水能力；材料环保，RoHS认证。

Reliable process and stable performance; High-strength plastic housing; Open side cover for easy maintenance; Teflon high temperature resistant wire, adapt to various harsh environments; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L136.5mm W50mm H50mm
重量 /Weight	105g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

160X/2+HT428 /

工艺可靠、性能稳定；高强度塑胶外壳；开放式侧盖，便于维修；铁氟龙耐高温电线，适应各种恶劣环境；EMC 电磁兼容性设计，电磁环境可靠运行；达到 IPX4 级防水能力；材料环保，RoHS 认证。

Reliable process and stable performance; High-strength plastic housing; Open side cover for easy maintenance; Teflon high temperature resistant wire, adapt to various harsh environments; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L137.5mm W62mm H50mm
重量 /Weight	110g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	5 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

FT160X+HT420 /

工艺可靠、性能稳定；高强度塑胶外壳；开放式侧盖，便于维修；铁氟龙耐高温电线，适应各种恶劣环境；EMC 电磁兼容性设计，电磁环境可靠运行；材料环保，RoHS 认证。

Reliable process and stable performance; High-strength plastic housing; Open side cover for easy maintenance; Teflon high temperature resistant wire, adapt to various harsh environments; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L139mm W41.5mm H55mm
重量 /Weight	105g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	5 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

FT158X+HT420 /

工艺可靠、性能稳定；高强度塑胶外壳；开放式侧盖，便于维修；铁氟龙耐高温电线，适应各种恶劣环境；EMC 电磁兼容性设计，电磁环境可靠运行；达到 IPX4 级防水能力；材料环保，RoHS 认证。

Reliable process and stable performance; High-strength plastic housing; Open side cover for easy maintenance; Teflon high temperature resistant wire, adapt to various harsh environments; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L138.5mm W43.1mm H37mm
重量 /Weight	100g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	3 Pins

电压 /Voltage	Working voltage 5v Output voltage 0.8-4.2V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle

FT162DX+HT420 /

高强度塑胶外壳；开放式侧盖，便于维修；铁氟龙耐高温电线，适应各种恶劣环境；3 档电量显示，电量一目了然，欠压提醒；EMC 电磁兼容性设计，电磁环境可靠运行；材料环保，RoHS 认证。

High-strength plastic housing; Open side cover for easy maintenance; Teflon high temperature resistant wire, adapt to various harsh environments; 3 levels of power display, power at a glance, under voltage reminder; EMC electromagnetic compatibility design, reliable operation in electromagnetic environment; Environmental protection of materials, RoHS certification.

标准 /Approval	RoHS
尺寸 /Size	L136.5mm W50mm H50mm
重量 /Weight	105g
防水 /Waterproof	IPX4
材料 /Material	PC+ABS、TPR
芯线 /Wiring	7 Pins

电压 /Voltage	24V/36V/48V/60V
工作温度 /Operating Temperature	-20°C ~ 60°C
电线拉脱力 /Wire Tension	>130N
旋转角度 /Rotation Angle	0° ~ 70°
旋转强度 /Spin Intensity	>9N.m
耐久性 /Durability	100,000 mating cycle