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This album is printed on ecological paper. Cherish resources and be kind to the environment.



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Ex



消防应急照明和疏散指示系统

Fire emergency lighting and evacuate indicating system



中油防爆电气(安徽)有限公司

ZHONG YOU EXPLOSION PROOF ELECTRICAL (ANHUI) CO., LTD.

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防爆小常识 Explosion-proof knowledge

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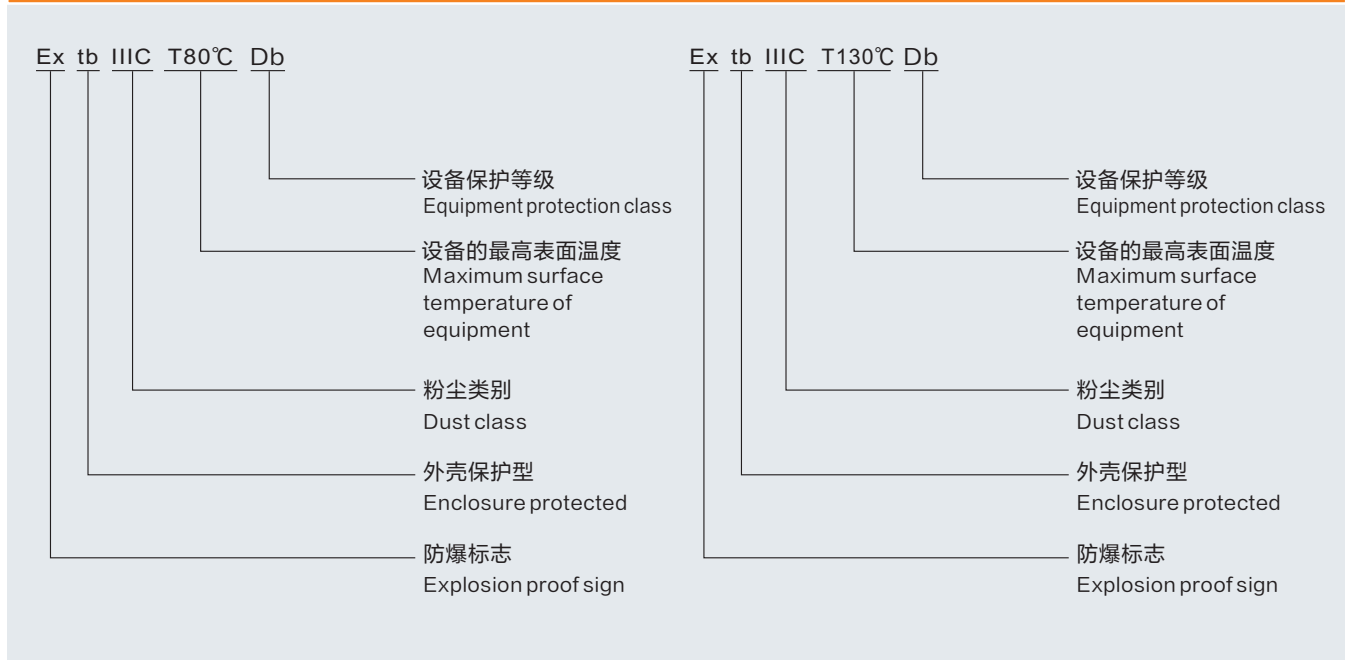
B

应急照明控制器 Emergency lighting controller

ZY-C-D-□ 应急照明控制器 ZY-C-D-□ Emergency lighting controller	23-24
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可燃性粉尘环境用电气设备防爆标志举例

Examples of explosion proof signs for electrical equipment in combustible dust environment



GB12476-2013版新防爆国家标准与GB12476-2000版标准主要变化

Main changes between the new explosion proof national standard of GB 12476-2013 and GB 12476-2000

- 目前，我国防爆标准体系是“气体防爆”（GB3836系列）和“粉尘防爆”（GB12476系列）两大体系并存；
- GB12476.1-2000主要技术内容由GB12476.5-2013《可燃性粉尘环境用电气设备第5部分：外壳保护型“tb”》代替；
- 防爆标志由原来的“DIP”变为“Ex”，根据防爆形式不同又分为为“Ex tb”外壳保护型、“Ex pb”正压保护型、“Ex ib”本质安全型和“Ex mb”浇封保护型；
- 原“用外壳和限制表面温度保护的电气设备”变为“Ex tb”外壳保护型、“Ex pb”正压保护型、“Ex ib”本质安全型和“Ex mb”浇封保护型；
- 防爆标志中温度组别可标温度值；
- 防爆标志中体现外壳防护等级(IP代码)。

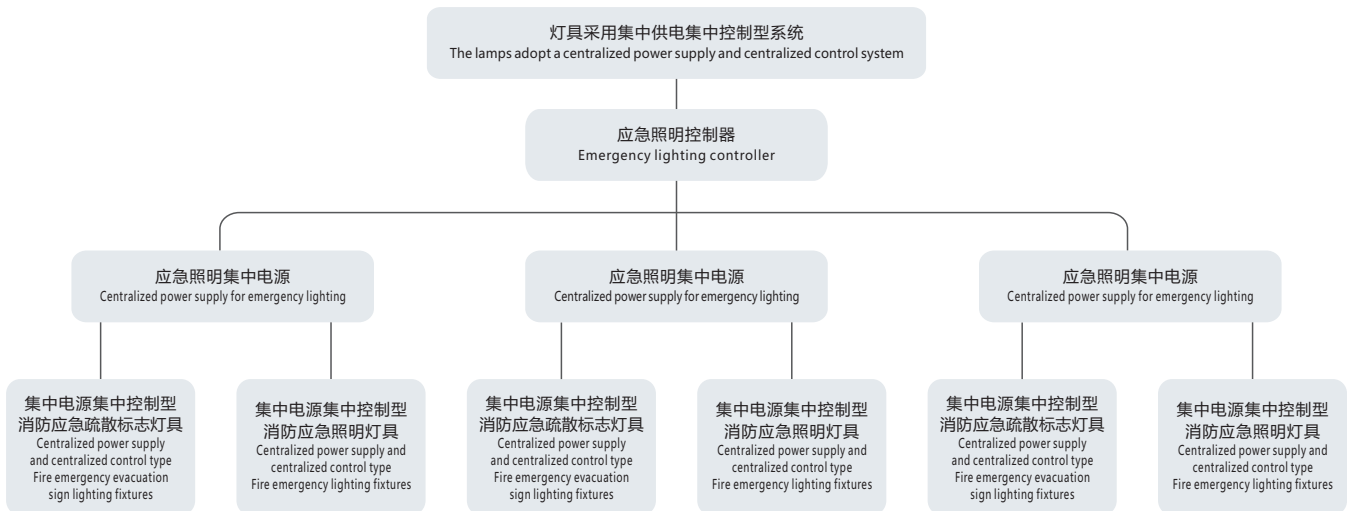
- At present, China's explosion-proof standard system is the coexistence of "gas explosion-proof" (GB3836 Series) and "dust explosion-proof" (gb12476 Series);
- The main technical content of GB 12476.1-2000 is replaced by GB 12476.5-2013 electrical equipment for combustible dust environment Part 5: enclosure protection type "Tb";
- The explosion-proof sign has changed from "dip" to "ex". According to the different explosion-proof forms, it can be divided into "ex tb" enclosure protection type, "ex pb" positive pressure protection type, "ex pb" positive pressure protection type and "ex tb" positive pressure protection type "Ex ib" intrinsic safety type and "ex mb" pouring protection type;
- The original "electrical equipment protected by enclosure and limited surface temperature" has been changed into "ex tb" enclosure protection type, "ex pb" positive pressure protection type, "ex ib" intrinsic safety type and "ex mb" pouring protection type;
- The temperature group in the explosion-proof sign can be marked with the temperature value;
- The enclosure protection grade (IP code) is shown in the explosion-proof sign.

一、集中控制型消防应急照明和疏散指示系统组成

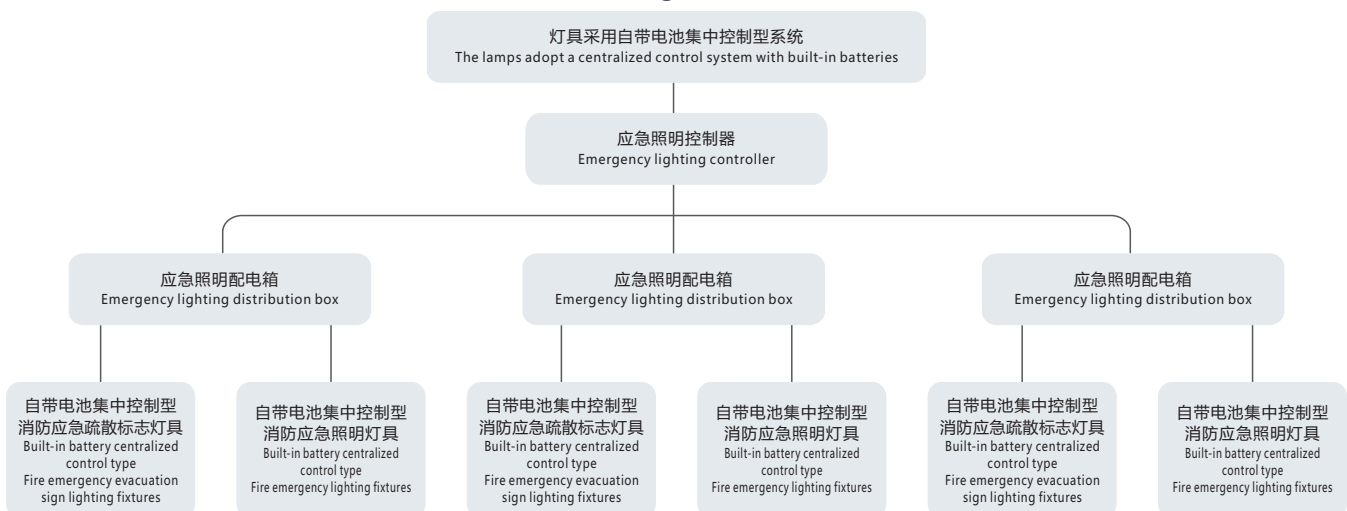
The composition of the centralized control type fire emergency lighting and evacuation indication system

- ◆ 按照灯具蓄电池供电方式的不同，集中控制型消防应急照明及疏散指示系统(以下简称“集中控制型系统”)的组成为两种不同的方式：
 - ◆ According to the different power supply methods of the lamps' batteries, the composition of the centralized control type fire emergency lighting and evacuation indication system (hereinafter referred to as the "centralized control type system") is divided into two different ways:
- 1、灯具的蓄电池采用集中供电方式时，系统由应急照明控制器、应急照明集中电源、集中控制型消防应急标志灯具、集中控制型应急照明灯具等部件组成，系统组成见图A；
 - 2、灯具的电池采用自带电池供电方式时，系统由应急照明控制器、应急照明配电箱，自带电池集中控制消防应急标志灯具、自带电池集中控制消防应急照明灯具等部件组成，系统组成见图B。
- 1、 When the battery of the lamp adopts centralized power supply mode, the system is composed of emergency lighting controller, emergency lighting centralized power supply, centralized control type fire emergency sign lamp, centralized control type emergency lighting lamp and other components. The system composition is shown in Figure A.
 - 2、 When the battery of the lamp is powered by the self-contained battery, the system consists of an emergency lighting controller, an emergency lighting distribution box, self-contained battery centralized control fire emergency sign lamps, self-contained battery centralized control fire emergency lighting lamps and other components. The system composition is shown in Figure B.

图Figure A



图Figure B

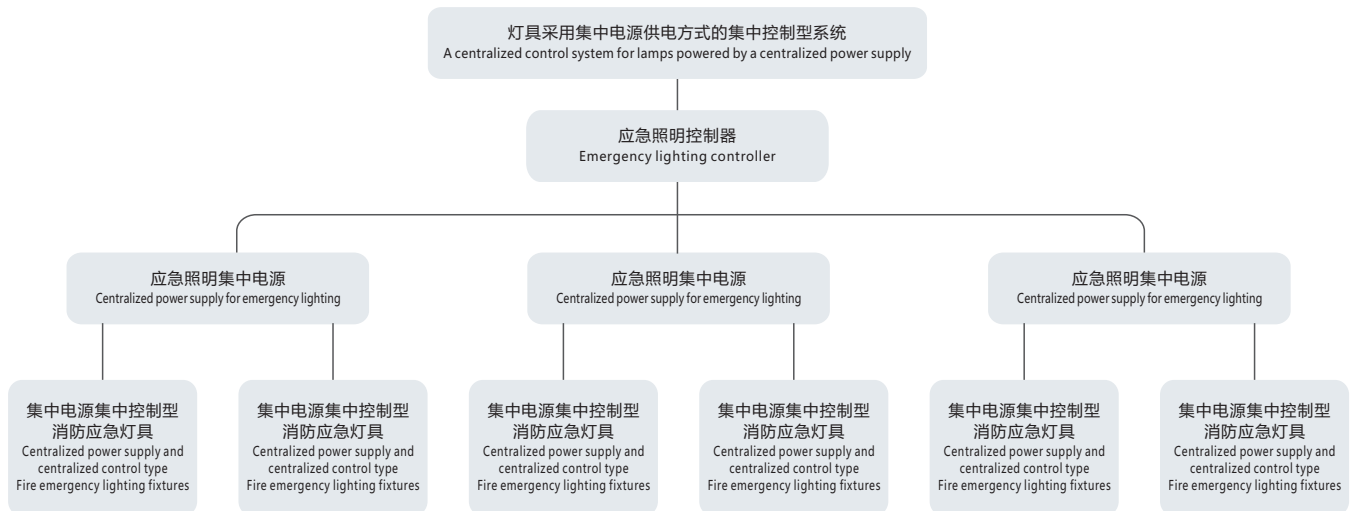


一、非集中控制型消防应急照明和疏散指示系统组成

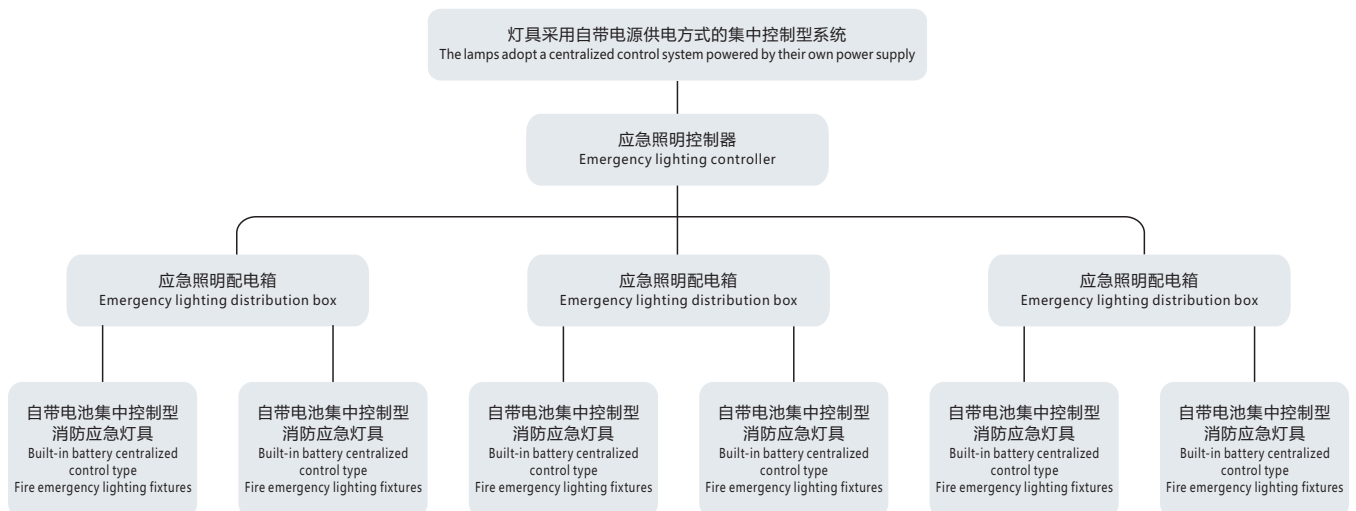
The composition of non-centralized control type fire emergency lighting and evacuation indication systems

- ◆ 按照灯具蓄电池电源供电方式的不同，集中控制型消防应急照明及疏散指示系统(以下简称“集中控制型系统”)的组成为两种不同的方式：
 - ◆ According to the different power supply methods of the battery power of the lamps, the composition of the centralized control type fire emergency lighting and evacuation indication system(hereinafter referred to as the "centralized control type system") is divided into two different ways:
- 1、灯具的电池电源采用集中电源供电方式时，系统由应急照明集中电源、集中电源集中控制型消防应急灯具等系统部件组成，系统组成见图A；
 - 2、灯具的蓄电池电源采用自带蓄电池供电方式时，系统由应急照明配电箱、自带电源集中控制消防应急灯具等系统部件组成。系统组成见图B。
- 1、 When the battery power supply of the lamps adopts the centralized power supply mode, the system is composed of emergency lighting centralized power supply, centralized power supply centralized control type fire emergency lamps and other system components. The system composition is shown in Figure A.
 - 2、 When the battery power supply of the lamps adopts the self-contained battery power supply mode, the system is composed of emergency lighting distribution box, self-contained power centralized control fire emergency lamps and other system components. The system composition is shown in Figure B.

图Figure A



图Figure B



二、非集中控制型消防应急照明和疏散指示系统产品功能

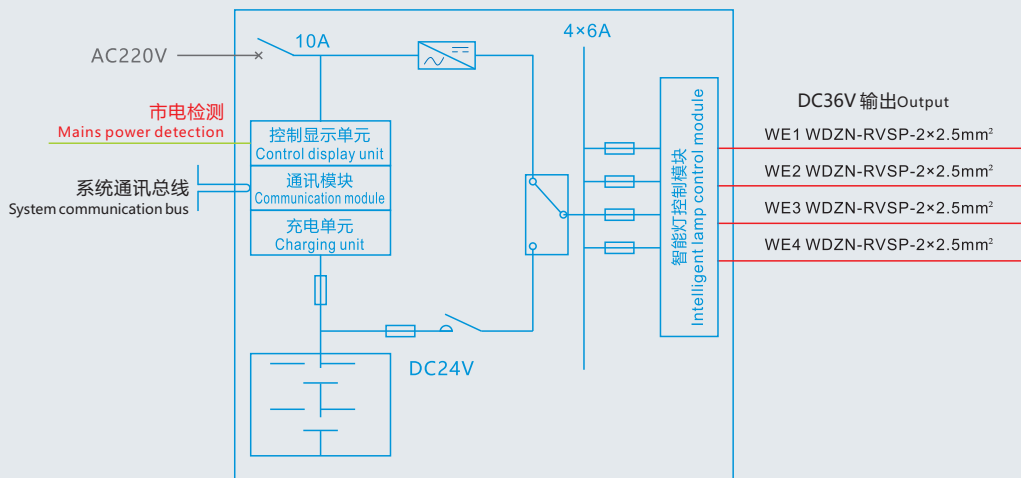
Product functions of non-centralized control type fire emergency lighting and evacuation indication system

- 1、本系统能够对消防应急灯具、线路及备电电池状态进行监测，如消防应急灯具，供电线路或备电电池发生故障，应急照明控制器能够报警，并定位故障发生点，提醒工作人员在第一时间进行维护，确保建筑内应急照明和疏散指示灯具的正常工作。
 - 2、智能控制产品功能：通过应急照明控制器可以远程设定消防应急灯具基本工作方式，如持续式、非持续式、可控式；配合监测系统可以自动控制或手动(强制)控制应急灯具的应急转换产品功能，以确保完成监测任务。
 - 3、避难走道地面水平最低照度不应低于5LX、消防应急标志灯选择带有米标的方向标志灯；
 - 4、灯具应选择采用节能光源的灯具，消防应急照明灯具的光源色温不应低于2700K；
 - 5、需要采用不同疏散预案的交通隧道、地铁隧道、地铁站台和站厅等场所，区域内相关标志灯的光源应按该区域默认疏散指示方案保持节电点亮模式；
 - 6、GB 17945-2024中规定蓄电池选择安全性高、不含重金属等对环境有害物质的蓄电池，本系统所采用的蓄电池均为环保电池，集中电源的蓄电池组和灯具自带蓄电池达到使用寿命周期后标称的剩余容量应保证放电时间满足1.5h持续工作时间；
 - 7、配接灯具的额定功率总和不应大于配电回路额定功率的80%；A型灯具配电回路的额定电流不应大于5A；
 - 8、地铁隧道内，任一配电回路配接灯具的范围不应超过一个区间的1/2，集中控制型系中统，集中设置的集中电源应由消防电池的专用应急回路供电，分散设置的集中电源应由所在防火分区、同一防火分区的楼层、隧道区间、地铁站台和站厅的消防电池配电箱供电；
 - 9、应急照明控制器采用通信协议与消防联动控制器通信时，应选择与消防联动控制器的通信接口和通讯协议的兼容性满足现行国家标准《火灾自动报警系统组件兼容性要求》GB22134有关规定的产品；
 - 10、需要采用不同疏散预案的地铁隧道、地铁站台和站厅等场所，应分别按照最短路径疏散原则、迎风疏散和避险疏散原则确定相应疏散指示方案；其中，按最短路径疏散原则确定的疏散指示方案应为该场所默认的疏散指示方案，所有区域的疏散指示方案、系统部件的工作状态应在应急照明控制器或专用消防控制室图形显示装置上以图形方式显示。
 - 11、应急照明控制器直接控制灯具的总数量不应大于3200只。A型应急照明集中电源，输出8回路，在不超过额定功率的前提下，每回路输出电流不大于5A；
 - 12、联动控制：火灾确认后由火灾报警控制器或消防联动控制器在1S内发出联动信号，应急照明控制器在接受指令后，将全部区域消防应急照明灯具在5S内一次性同时转入应急(点亮)状态。指令完成后发出相应反馈总信号。
- 1、 This system can monitor the status of fire emergency luminaires, circuits and backup batteries. If a fault occurs in fire emergency luminaires, power supply circuits or backup batteries, the emergency lighting controller can alarm, locate the fault point, and remind workers to carry out maintenance at the first time to ensure the normal operation of emergency lighting and evacuation indicator luminaires in the building.
 - 2、 Intelligent control product functions: The basic working modes of fire emergency luminaires, such as continuous mode, non - continuous mode and controllable mode, can be set remotely through the emergency lighting controller. Cooperating with the monitoring system, it can automatically or manually (forced) control the emergency conversion product function of emergency luminaires to ensure the completion of monitoring tasks.
 - 3、 The minimum ground horizontal illuminance of the refuge corridor should not be less than 5LX, and the fire emergency indicator lights should choose direction indicator lights with meter marks.
 - 4、 Luminaires should be those using energy - saving light sources, and the color temperature of the light source of fire emergency lighting luminaires should not be lower than 2700K.
 - 5、 For places such as traffic tunnels, subway tunnels, subway platforms and station halls that need to adopt different evacuation plans, the light sources of relevant indicator lights in the area should maintain the power - saving mode according to the default evacuation indication plan of the area.
 - 6、 GB 17945-2024 stipulates that batteries should be safe and free of heavy metals and other substances harmful to the environment. The batteries used in this system are all environmentally friendly batteries. After the battery packs of centralized power supplies and the built - in batteries of luminaires reach the end of their service life cycle, the nominal remaining capacity should ensure a discharge time that meets 1.5h of continuous working time.
 - 7、 The total rated power of the connected luminaires should not exceed 80% of the rated power of the distribution circuit. The rated current of the distribution circuit for type A lamps should not exceed 5A.
 - 8、 In the subway tunnel, the range of luminaires connected to any power distribution circuit should not exceed 1/2 of an interval. In the centralized control system, the centrally installed centralized power supply should be powered by a dedicated emergency circuit of the fire battery, and the decentralized centralized power supply should be powered by the fire battery distribution box of the fire compartment, the floor of the same fire compartment, the tunnel interval, the subway platform and the station hall.
 - 9、 When the emergency lighting controller communicates with the fire linkage controller using a communication protocol, it should select a product whose compatibility with the communication interface and communication protocol of the fire linkage controller meets the relevant regulations of the current national standard "Compatibility Requirements for Fire Automatic Alarm System Components" Gb22134.
 - 10、 For places such as subway tunnels, subway platforms and station halls that need to adopt different evacuation plans, the corresponding evacuation indication plans should be determined according to the shortest path evacuation principle, windward evacuation principle and refuge evacuation principle respectively. Among them, the evacuation indication plan determined according to the shortest path evacuation principle should be the default evacuation indication plan for the place. The evacuation indication plans of all areas and the working status of system components should be displayed graphically on the emergency lighting controller or the graphic display device of the dedicated fire control room.
 - 11、 The total number of lamps directly controlled by the emergency lighting controller should not exceed 3,200. Type A emergency lighting centralized power supply, with 8 output circuits, has an output current of no more than 5A per circuit under the premise of not exceeding the rated power.
 - 12、 Linkage control: After the fire is confirmed, the fire alarm controller or the fire linkage controller sends a linkage signal within 1S. After receiving the instruction, the emergency lighting controller turns all regional fire emergency lighting luminaires into the emergency (lighting) state at the same time within 5S. After the instruction is completed, the corresponding total feedback signal is sent.

三、导线选型及敷设要求

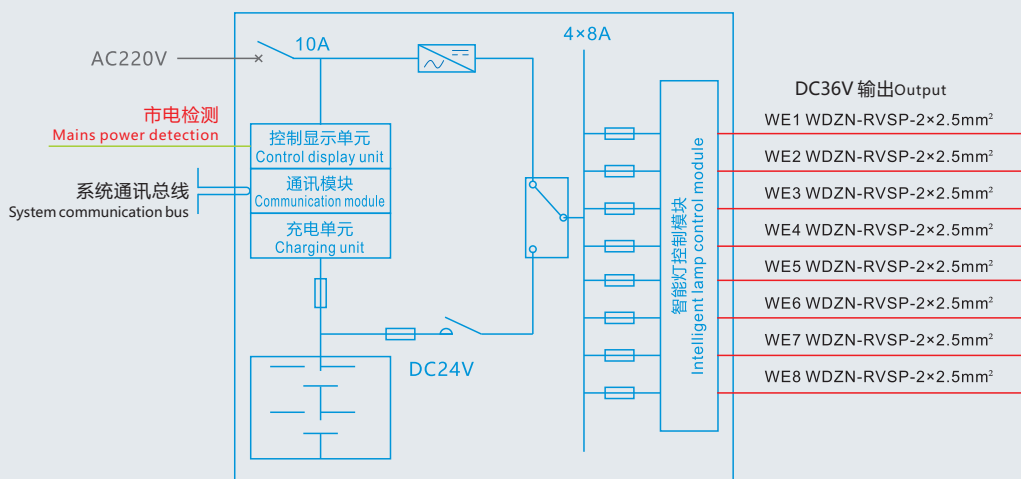
Wire selection and laying requirements

- 1、应急照明控制器至应急照明集中电源或配电箱通信线:通讯线WDZN-RVS(P)-2X1.5。
 - 2、应急照明集中电源或配电箱至应急灯具线制:WDZN-BYJC(F)-2X2.5或WDZN-BYJ(F)-2x4。
1. Communication line from emergency lighting controller to emergency lighting centralized power supply or distribution box: Communication line WDZN-RVS (P)-2X1.5.
 2. The wiring system from the centralized power supply or distribution box for emergency lighting to the emergency lamps :WDZN-BYJC(F)-2X2.5 or WDZN-BYJ(F)-2x4.



应急照明集中电源4回路接线示意图

Wiring diagram of the 4-circuit centralized power supply for emergency lighting



应急照明集中电源8回路接线示意图

Wiring diagram of 8-circuit centralized power supply for emergency lighting

集中电源集中控制型消防应急照明和疏散指示系统

Centralized power supply and centralized control type fire emergency lighting and evacuation indication system



ZY-C-D-□

应急照明控制器

ZY-C-D-□

Emergency lighting controller



C 环境用途 Environmental use

- ◆ 广泛应用于石油、化工、军工、工业厂房、大型楼宇、商场、学校、酒店等场所，实时监控后端设备运行状态，与火灾报警系统实时联动在发生停电、火灾等突发性灾害事故时，为疏散、消防作业提供远程控制；
- ◆ 适用于无明显破坏金属和绝缘的腐蚀性气体或蒸气的环境中；
- ◆ 海拔高度：不超过 2000 米；
- ◆ 大气压力：80Kpa~110Kpa；
- ◆ 周围空气相对湿度不大于 95%(25°C时)；
- ◆ 适用于 - 10°C~+55°C环境温度。
- ◆ It is widely used in petroleum, chemical industry, military industry, industrial plants, large buildings, shopping malls, schools, hotels and other places to monitor the operation status of back - end equipment in real time. It is linked with the fire alarm system in real time. In case of sudden disasters such as power failure and fire, it provides remote control for evacuation and fire - fighting operations.
- ◆ It is suitable for environments without corrosive gases or vapors that obviously damage metals and insulation.
- ◆ Altitude: no more than 2000 meters.
- ◆ Atmospheric pressure: 80Kpa - 110Kpa.
- ◆ The relative humidity of the surrounding air is not more than 95% (at 25°C).
- ◆ Suitable for ambient temperature from - 10°C to + 55°C.

C 产品特性 Product features

- ◆ 接收 FAS 火警信号、执行联动预案；
- ◆ 监测自身工作状态；
- ◆ 手动、自动控制系统内疏散指示灯具的指示方向；
- ◆ 显示、监测、主报（故障时）、控制应急照明集中电源、应急照明配电箱、应急灯具的工作状态；
- ◆ 保存、打印系统运行时的日志记录，自动数据备份功能；
- ◆ 显示建筑平面图、防火分区、疏散线路图；
- ◆ 最长通讯距离可达30km；
- ◆ 设计满足 GB 17945-2024《消防应急照明和疏散指示系统》的要求。
- ◆ Receive FAS fire alarm signals and execute linkage preplans;
- ◆ Monitor its own working status;
- ◆ Manually and automatically control the indication direction of evacuation indication lamps in the system;
- ◆ Display, monitor, report(in case of fault),and control the working status of the centralized power supply for emergency lighting,emergency lighting distribution box, and emergency lamps.
- ◆ Save and print log records during system operation, and have an automatic data backup function;
- ◆ Display building floor plans, fire - fighting zones, and evacuation route maps;
- ◆ The maximum communication distance can reach up to 30 kilometers.
- ◆ The design meets the requirements of GB 17945-2024 "Fire Emergency Lighting and Evacuation Indication System".

G 型号含义 Model meaning

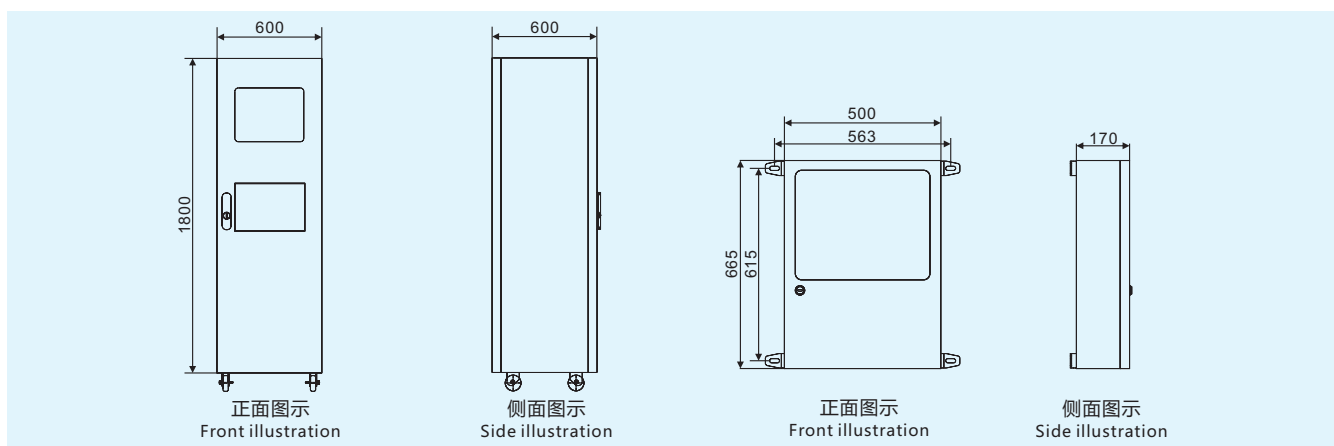
ZY - C - D - □
① ② ③ ④

- ① 企业代码 Enterprise code
- ② 应急照明控制器 Emergency lighting controller
- ③ 独立式 Independent
- ④ 安装方式: B: 壁式 Installation method: Wall-mounted
L: 立式 Vertical

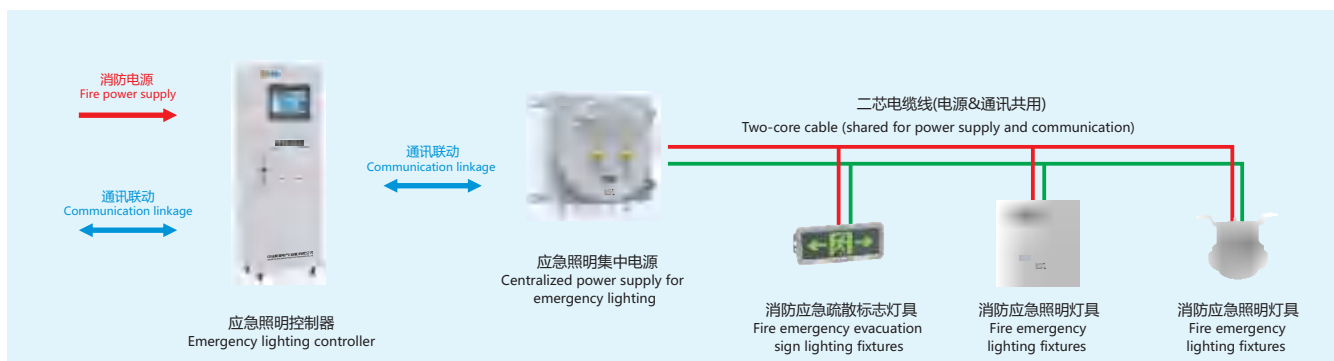
G 技术参数 Technical parameter

应急照明控制器 Emergency lighting controller	ZY-C-D-□
执行标准 Executive standard	GB 17945-2024
额定电压 Rated voltage	AC220V
额定频率 Rated frequency	50Hz
防护等级 Protection grade	IP43
环境温度 Ambient temperature	-10°C~+55°C
应急时间 Emergency time	180min
外形尺寸 Overall dimensions	504*170*666(mm)

G 安装图示 Installation illustration



G 智能系统示意图 Schematic diagram of intelligent system



ZY-D-□□(□/□)-EX

应急照明集中电源

ZY-D-□□(□/□)-EX

Emergency lighting
centralized power supply



C 环境用途 Environmental use

- ◆ 广泛应用于石油、化工、军工、工业厂房、大型楼宇、商场、学校、酒店等场所，在发生停电、火灾等突发性灾害事故时，为疏散、消防作业提供集中供电；
- ◆ 爆炸性气体混合物危险场所 1 区、2 区；
- ◆ 爆炸性气体混合物危险类别 IIA、IIB、IIC；
- ◆ 在无破坏绝缘的气体或蒸汽的环境中；
- ◆ 湿度：>90% RH；
- ◆ 爆炸性气体混合物温度组别 T1~T6；
- ◆ 适用于 -20℃~+40℃(防爆)，-10℃~+55℃(消防)环境温度。
- ◆ It is widely used in petroleum, chemical industry, military industry, industrial plants, large buildings, shopping malls, schools, hotels and other places. In case of sudden disasters such as power outages and fires, it provides centralized power supply for evacuation and fire - fighting operations.
- ◆ Hazardous places for explosive gas mixtures: Zone 1, Zone 2.
- ◆ Hazard categories of explosive gas mixtures: IIA, IIB, IIC.
- ◆ In an environment without gases or vapors that damage insulation.
- ◆ Humidity: > 90% RH.
- ◆ Temperature classes of explosive gas mixtures: T1 - T6.
- ◆ It is applicable to the ambient temperature range of -20℃ to +40℃(Explosion-proof) and -10℃ to +55℃(Fire-fighting).

C 产品特性 Product features

- ◆ 模块化组件技术，整个系统易于安装、调试及维护；
- ◆ 安全性高，内设不同操作权限功能；
- ◆ 能非常直观的显示电源的状态参数；
- ◆ 输出8回路，在不超过额定功率的前提下，每回路输出电流不大天5A；
- ◆ 采用隔离式回路设计，系统更稳定；
- ◆ 具有短路检测及短路保护功能；
- ◆ 执行标准：GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.31-2021、GB 17945-2024
- ◆ Modular component technology makes the whole system easy to install, debug and maintain;
- ◆ High safety with built - in functions of different operation authority levels;
- ◆ Can display the status parameters of the power supply very intuitively;
- ◆ Output 8 circuits. Under the premise of not exceeding the rated power, the output current of each circuit is not more than 5A.
- ◆ Adopts isolated circuit design, making the system more stable;
- ◆ Has short - circuit detection and short - circuit protection functions;
- ◆ Executive standards: GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.31-2021、GB 17945-2024

C 型号含义 Model meaning

ZY-D-□□(□/□)-EX
① ② ③ ④ ⑤ ⑥ ⑦

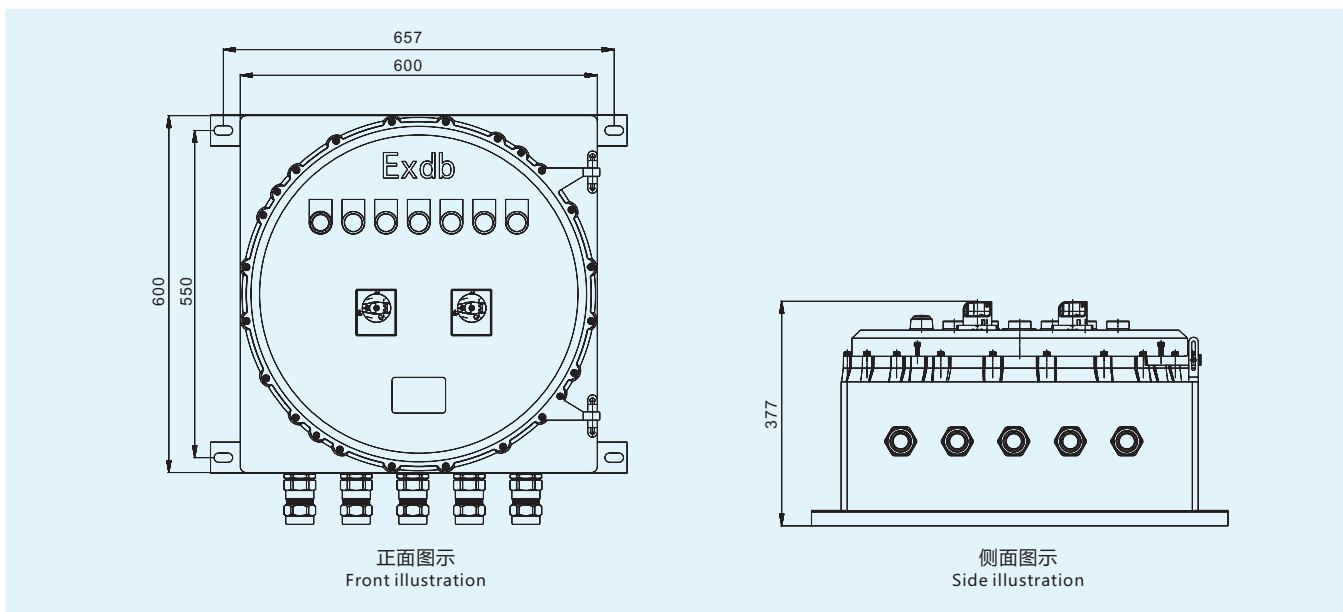
- ① 企业代码 Enterprise code
- ② 应急照明集中电源 Centralized power supply for emergency lighting
- ③ 应急输出电压代码：A型/B型 Emergency output voltage code: Type A; Type B
- ④ 类型：C：集中控制型 Type: C: Centralized Control type
D：非集中控制型 D: Non-centralized control type
- ⑤ 应急输出电压：DC24V、DC36V、DC48V、AC220V Emergency output voltages: DC24V, DC36V, DC48V, AC220V
- ⑥ 应急输出功率：0.3kVA、0.5kVA、1kVA Emergency output power: 0.3kVA, 0.5kVA, 1kVA
- ⑦ 防爆 Explosion-proof

C 技术参数 Technical parameter

应急照明集中电源 Emergency lighting centralized power supply	ZY-D-□□(□/□)-EX
防爆型式 Explosion proof type 气体防爆型式 Gas explosion proof type 粉尘防爆型式 Dust explosion proof type	Ex II2G Ex db IIB T6 Gb; Ex db IIC T6 Gb; Ex II2D Ex tb IIIC T80°C Db
执行标准 Executive standard	GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.31-2021、GB 17945-2024
额定电压 Rated voltage	AC220V
应急时间 Emergency time	≥90min
防护等级 Protection grade	IP66
电池类型 Battery type	磷酸铁锂，铅酸蓄电池 Lithium iron phosphate, lead-acid battery


 ZHONG YOU EXPLOSION PROOF ELECTRICAL
 中油防爆

C 产品外形图示 Product shape illustration



C 产品细节 Product details



引入口规格可选用M螺纹或NPT螺纹
The inlet specification can be selected as M thread or NPT thread

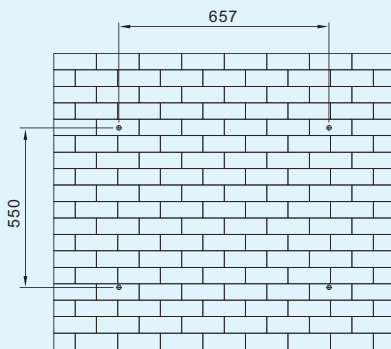


采用导轨式防爆接线端子
Adopt rail-mounted explosion-proof terminal blocks

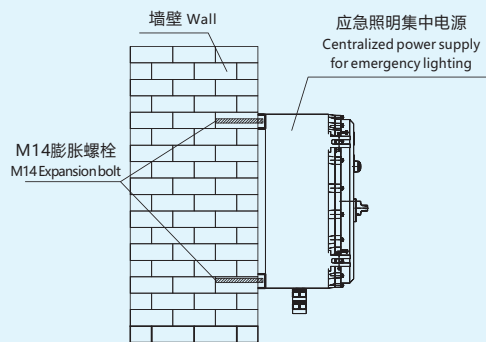


采用高精度电路设计内设路由器功能
It adopts a high-precision circuit design and is equipped with an internal router function

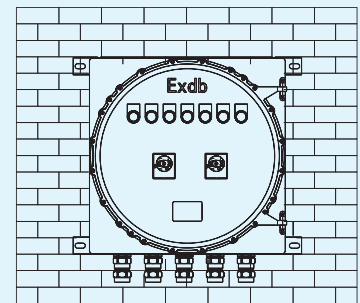
C 产品安装图示 Product installation diagram



现场膨胀螺栓位置图(示意图1)
On-site expansion bolt position diagram
(Schematic Diagram 1)



电源安装侧视图(示意图2)
Side view of power supply installation
(Schematic Diagram 2)

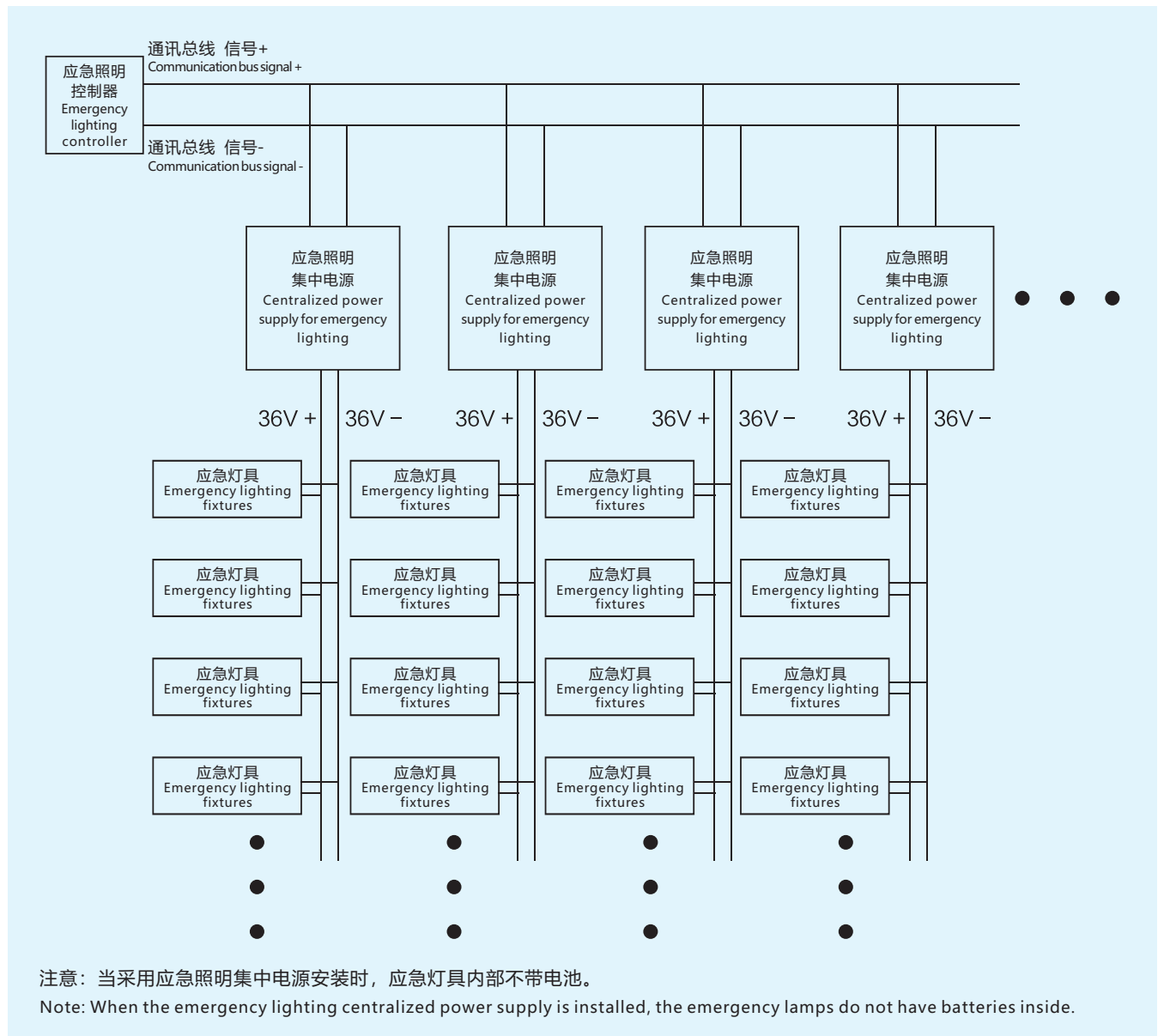


电源安装正视图(示意图3)
Front view of power supply installation
(Schematic Diagram 3)

安装方法：把四个规格M14X150的膨胀螺栓(示意图1)的尺寸钉在墙壁上，再把产品挂在膨胀螺栓上螺母，最后把螺母拧紧固定即可。

Installation method: Nail the dimensions of the four M14X150 expansion bolts (Diagram 1) onto the wall, then hang the product on the nuts of the expansion bolts, and finally tighten the nuts to fix it.

C 系统拓扑图 System topology diagram



C 定货须知 Ordering Instructions

- ◆ 定货时严格按型号含义，详细注明产品各项参数，安装件等；例：ZY-D-□□(□/□)-EX
壁式安装，则产品型号为：ZY-D-□□(□/□)-EX
- ◆ 如有特殊要求（如电压、应急时间等）定货时请注明。
- ◆ When placing an order, strictly follow the model meaning and specify in detail all product parameters, installation parts, etc.
For example, If ZY-D-□□(□/□)-EX
Is wall-mounted, the product model is: ZY-D-□□(□/□)-EX
- ◆ If there are any special requirements (such as voltage, emergency time, etc.), please specify them when placing an order.

ZY-D-□□(□/□)-SF

应急照明集中电源

ZY-D-□□(□/□)-SF

Emergency lighting
centralized power supply



C 环境用途 Environmental use

- ◆ 广泛用于城市厂房、车间、仓库、展览院、管廊、超市等场所，当发生火灾时作为疏散、消防作业提供集中供电；
- ◆ 适用于对防护要求较高、潮湿的场所；
- ◆ 适用于 -10°C ~ +55°C 温度环境。
- ◆ It is widely used in urban factories, workshops, warehouses, exhibition halls, pipe galleries, supermarkets and other places, and provides centralized power supply for evacuation and fire - fighting operations when a fire breaks out.
- ◆ It is suitable for places with high protection requirements and damp conditions.
- ◆ It is suitable for temperature environments from -10°C to +55°C.

C 产品特性 Product features

- ◆ 模块化组件技术，整个系统易于安装、调试及维护；
- ◆ 安全性高，不同的操作权限需要输入相应的密码才能进入；
- ◆ 能非常直观地显示电源的状态参数；
- ◆ 输出8回路，在不超过额定功率的前提下，每回路输出电流不大天5A；
- ◆ 采用隔离式回路设计，系统更稳定；
- ◆ 具有短路检测及短路保护功能；
- ◆ 执行标准：GB 17945-2024
- ◆ Modular component technology makes the entire system easy to install, commission and maintain.
- ◆ High security. Different operation permissions require entering corresponding passwords to access.
- ◆ Can display the status parameters of the power supply very intuitively.
- ◆ Output 8 circuits. Under the premise of not exceeding the rated power, the output current of each circuit is not more than 5A.
- ◆ Adopts isolated circuit design, making the system more stable.
- ◆ Has short - circuit detection and short - circuit protection functions.
- ◆ Implemented standard: GB 17945-2024

G 型号含义 Model meaning

ZY-D-□□(□/□)-SF
① ② ③ ④ ⑤ ⑥ ⑦

- ① 企业代码 Enterprise code
- ② 应急照明集中电源 Centralized power supply for emergency lighting
- ③ 应急输出电压代码：A型/B型 Emergency output voltage code: Type A; Type B
- ④ 类型：C：集中控制型 Type: C: Centralized Control type
D：非集中控制型 D: Non-centralized control type
- ⑤ 应急输出电压：DC24V、DC36V、DC48V、AC220V Emergency output voltages: DC24V, DC36V, DC48V, AC220V
- ⑥ 应急输出功率：0.3kVA、0.5kVA、1kVA Emergency output power: 0.3kVA, 0.5kVA, 1kVA
- ⑦ 防水防尘防腐 Waterproof, dustproof and anti-corrosion

G 技术参数 Technical parameter

应急照明集中电源 Emergency lighting centralized power supply	ZY-D-□□(□/□)-SF
执行标准 Executive standard	GB 17945-2024
额定电压 Rated voltage	AC220V
应急时间 Emergency time	≥90min
防护等级 Protection grade	IP65
电池类型 Battery type	铅酸蓄电池 Lead-acid battery

G 产品外形及安装图示 Product shape and installation diagram

The diagram illustrates the product's dimensions and installation requirements. The front view shows a rectangular unit with a width of 601mm and a height of 750mm. The side view shows a depth of 200mm. The on-site expansion bolt position diagram shows a 601mm x 714mm area with four M10 expansion bolts. The side view of the power supply installation shows the unit mounted on a wall using these bolts. The front view of the power supply installation shows the unit mounted on a wall with the expansion bolts visible.

正面图示
Front illustration

侧面图示
Side illustration

现场膨胀螺栓位置图(示意图1)
On-site expansion bolt position diagram
(Schematic Diagram 1)

电源安装侧视图(示意图2)
Side view of power supply installation
(Schematic Diagram 2)

电源安装正视图(示意图3)
Front view of power supply installation
(Schematic Diagram 3)

安装方法：把四个规格M10X100的膨胀螺栓(示意图1)的尺寸钉在墙壁上，再把产品挂在膨胀螺栓上螺母，最后把螺母拧紧固定即可。

Installation method: Nail the dimensions of the four M10X100 expansion bolts (Diagram 1) onto the wall, then hang the product on the nuts of the expansion bolts, and finally tighten the nuts to fix it.

ZY-PD-□□(□/□)-EX

应急照明配电箱

ZY-PD-□□(□/□)-EX

Emergency lighting
distribution box



C 环境用途 Environmental use

- ◆ 广泛应用于石油、化工、军工、工业厂房、大型楼宇、商场、学校、酒店等场所，为集中控制设备提供实时信息传输，在发生停电、火灾等突发性灾害事故时，为后端消防设备提供通讯；
- ◆ 爆炸性气体混合物危险场所 1 区、2 区；
- ◆ 爆炸性气体混合物危险类别 IIA、IIB、IIC；
- ◆ 在无破坏绝缘的气体或蒸汽的环境中；
- ◆ 湿度：>90% Rh；
- ◆ 爆炸性气体混合物温度组别 T1~T6；
- ◆ 适用于 -20℃~+40℃(防爆)，-10℃~+55℃(消防)环境温度。
- ◆ It is widely used in places such as petroleum, chemical industry, military industry, industrial plants, large buildings, shopping malls, schools, and hotels. It provides real - time information transmission for centralized control equipment. In case of sudden disaster accidents such as power outages and fires, it provides communication for backend fire protection equipment.
- ◆ Hazardous areas 1 and 2 for explosive gas mixtures.
- ◆ Hazard categories IIA, IIB, and IIC for explosive gas mixtures.
- ◆ In an environment without gases or vapors that damage insulation.
- ◆ Humidity: >90%RH.
- ◆ Temperature classes T1 - T6 for explosive gas mixtures.
- ◆ It is applicable to the ambient temperature range of -20°C to +40°C(Explosion-proof) and -10°C to +55°C(Fire-fighting).

C 产品特性 Product features

- ◆ 模块化组件技术，整个系统易于安装、调试及维护；
- ◆ 安全性高，不同的操作权限需要输入相应的密码才能进入；
- ◆ 能非常直观地显示电源的状态参数；
- ◆ 输出8回路，在不超过额定功率的前提下，每回路输出电流不大天5A；
- ◆ 采用隔离式回路设计，系统更稳定；
- ◆ 具有短路检测及短路保护功能；
- ◆ 执行标准：GB/T 3836.1、GB/T 3836.2、GB/T 3836.31、GB 17945、IEC 60079-0、IEC 60079-1、IEC 60079-31、EN 60079-0、EN 60079-1、EN 61241-0、EN 61241-1。
- ◆ Modular component technology makes the entire system easy to install, commission and maintain.
- ◆ High security. Different operation permissions require entering corresponding passwords to access.
- ◆ Can display the status parameters of the power supply very intuitively.
- ◆ Output 8 circuits. Under the premise of not exceeding the rated power, the output current of each circuit is not more than 5A.
- ◆ Adopts isolated circuit design, making the system more stable.
- ◆ Has short - circuit detection and short - circuit protection functions.
- ◆ Implemented standards: GB/T 3836.1, GB/T 3836.2, GB/T 3836.31, GB 17945, IEC 60079 - 0, IEC 60079 - 1, IEC 60079 - 31, EN 60079 - 0, EN 60079 - 1, EN 61241 - 0, EN 61241 - 1.

G 型号含义 Model meaning

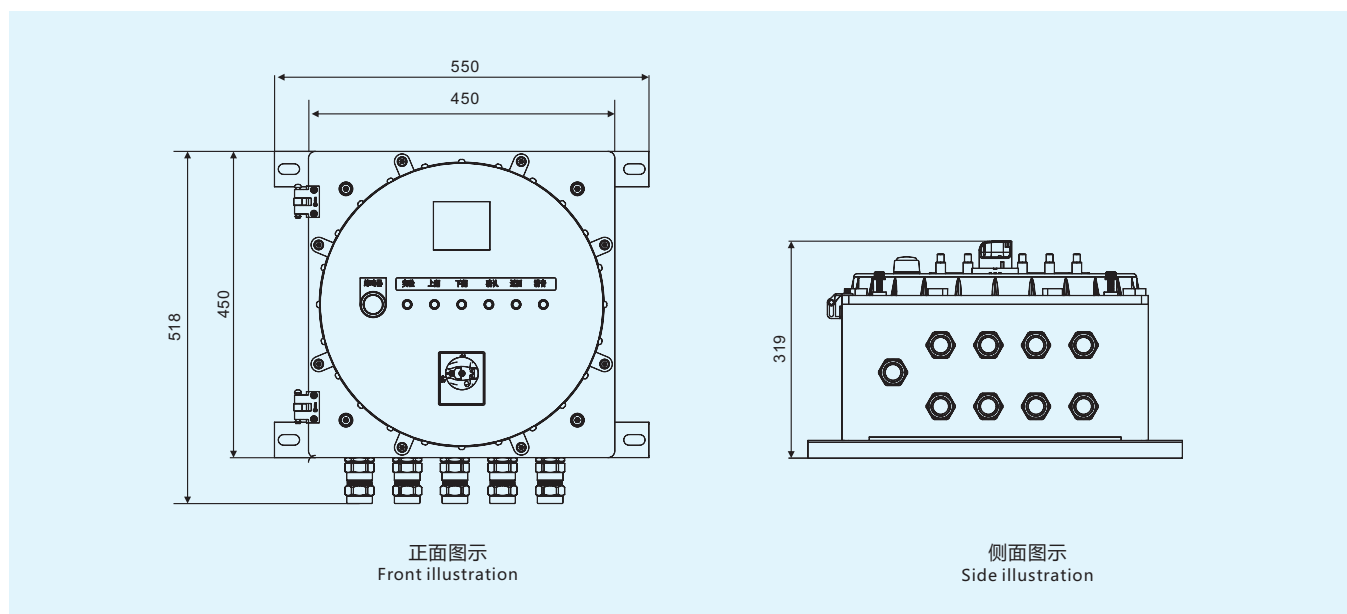
ZY-PD-□□(□/□)-EX
① ② ③ ④ ⑤ ⑥ ⑦

- ① 企业代码 Enterprise code
- ② 应急照明配电箱 Emergency lighting distribution box
- ③ 输出电压代码：A型/B型 Output voltage code: Type A; Type B
- ④ 类型：C：集中控制型 Type: C: Centralized Control type
D：非集中控制型 D: Non-centralized control type
- ⑤ 应急输出电压：DC24V、DC36V、DC48V Emergency output voltages: DC24V, DC36V, DC48V
- ⑥ 应急输出功率：1KVA/0.5KVA/0.3KVA Emergency output power: 1KVA/0.5KVA/0.3KVA
- ⑦ 防爆 Explosion-proof

G 技术参数 Technical parameter

应急照明配电箱 Emergency lighting distribution box	ZY-PD-□□(□/□)-EX
防爆型式 Explosion proof type 气体防爆型式 Gas explosion proof type 粉尘防爆型式 Dust explosion proof type	⊕ II2G Ex db IIB T6 Gb; Ex db IIC T6 Gb; ⊕ II2D Ex tb IIIC T80°C Db
执行标准 Executive standard	GB/T 3836.1、GB/T 3836.2、GB/T 3836.31、GB 17945、IEC 60079-0、IEC 60079-1、IEC 60079-31、EN 60079-0、EN 60079-1、EN 61241-0、EN 61241-1
额定电压 Rated voltage	AC220V
应急时间 Emergency time	≥90min
防护等级 Protection grade	IP66
电池类型 Battery type	磷酸铁锂 Lithium iron phosphate

G 产品外形图示 Product shape illustration



G 产品细节 Product details



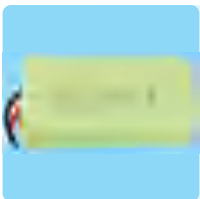
引入口规格可选用M螺纹或NPT螺纹
The inlet specification can be selected as M thread or NPT thread



采用导轨式防爆接线端子
Adopt rail-mounted explosion-proof terminal blocks

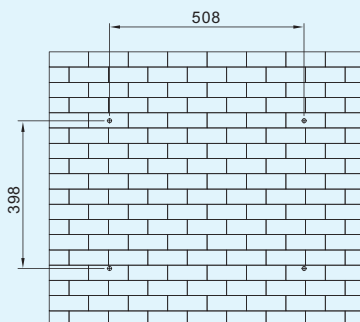


采用高精度电路设计内设路由器功能
It adopts a high-precision circuit design and is equipped with an internal router function

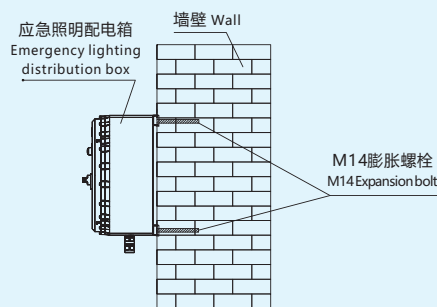


内置独立锂电池确保应急时，内部供电正常
The built-in independent lithium battery ensures normal internal power supply in emergency situations

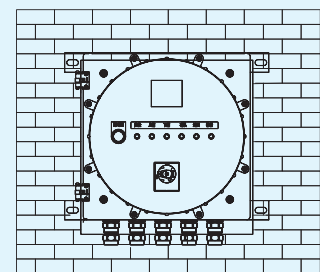
G 产品安装图示 Product installation diagram



现场膨胀螺栓位置图(示意图1)
On-site expansion bolt position diagram
(Schematic Diagram 1)



配电箱安装侧视图(示意图2)
Side view of distribution box installation
(Schematic Diagram 2)

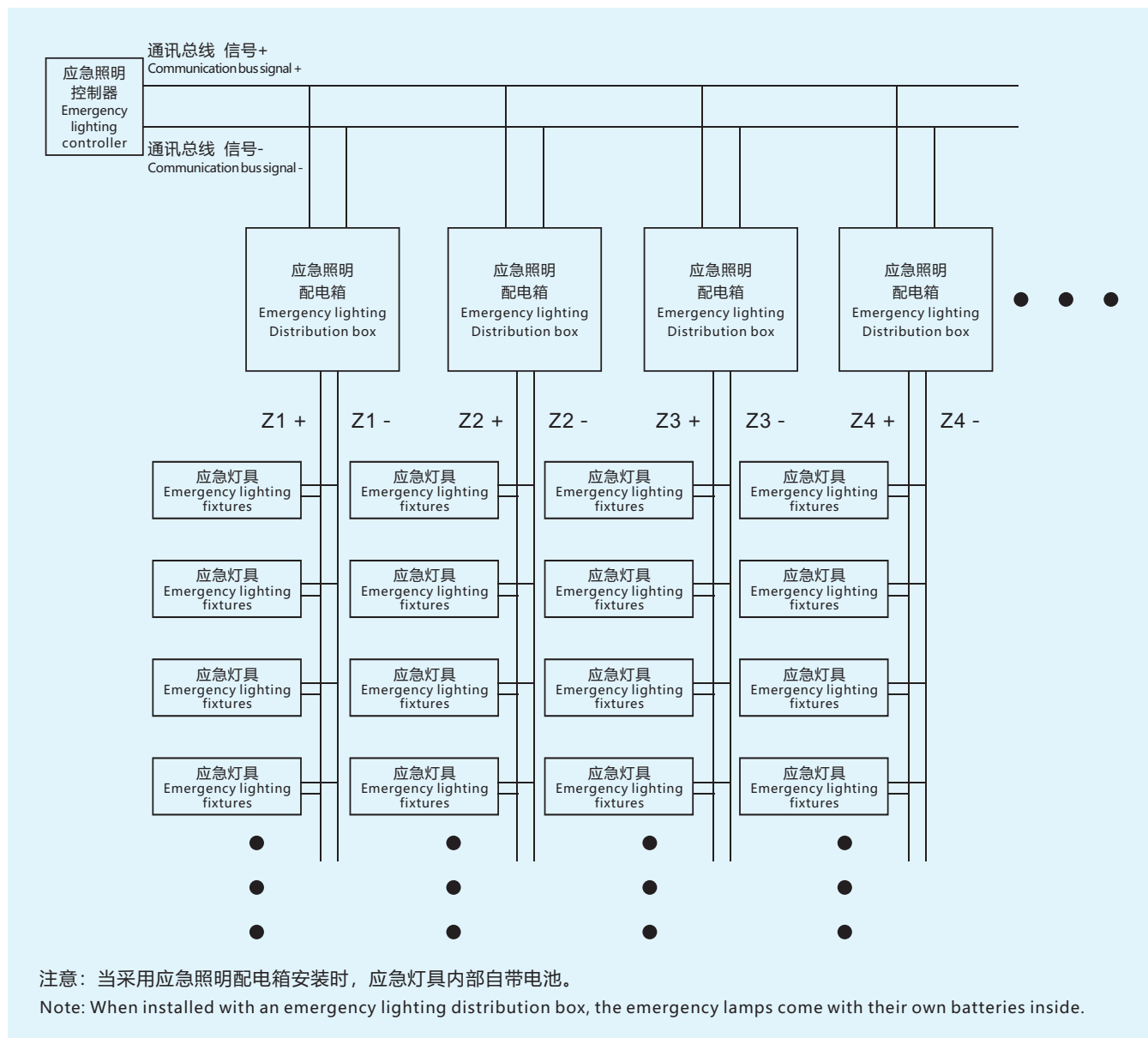


配电箱安装正视图(示意图3)
Side view of distribution box installation
(Schematic Diagram 3)

安装方法：把四个规格M14X150的膨胀螺栓(示意图1)的尺寸钉在墙壁上，再把产品挂在膨胀螺栓上螺母，最后把螺母拧紧固定即可。

Installation method: Nail the dimensions of the four M14X150 expansion bolts (Diagram 1) onto the wall, then hang the product on the nuts of the expansion bolts, and finally tighten the nuts to fix it.

C 系统拓扑图 System topology diagram



C 订货须知 Ordering Instructions

- ◆ 订货时严格按型号含义，详细注明产品各项参数，安装件等；例：ZY-PD-□□(□/□)-EX
壁式安装，则产品型号为：ZY-PD-□□(□/□)-EX
- ◆ 如有特殊要求（如电压、应急时间等）订货时请注明。
- ◆ When placing an order, strictly follow the model meaning and specify in detail all product parameters, installation parts, etc.
For example, If ZY-PD-□□(□/□)-EX
Is wall-mounted, the product model is: ZY-PD-□□(□/□)-EX
- ◆ If there are any special requirements (such as voltage, emergency time, etc.), please specify them when placing an order.

ZY-PD-□□(□/□)-SF

应急照明配电箱

ZY-PD-□□(□/□)-SF

Emergency lighting
distribution box



C 环境用途 Environmental use

- ◆ 广泛用于城市厂房、车间、仓库、展览院、管廊、超市等场所，为集中控制设备提供实时信息传输，在发生停电、火灾等突发性灾害事故时，为后端消防设备提供通讯；
- ◆ 适用于对防护要求较高、潮湿的场所；
- ◆ 适用于 -10°C ~ +55°C 温度环境。
- ◆ It is widely used in urban factories, workshops, warehouses, exhibition halls, pipe galleries, supermarkets and other places to provide real - time information transmission for centralized control equipment. In case of sudden disaster accidents such as power outages and fires, it provides communication for backend fire - fighting equipment.
- ◆ It is suitable for places with high protection requirements and damp conditions.
- ◆ It is suitable for temperature environments from -10°C to +55°C.

C 产品特性 Product features

- ◆ 模块化组件技术，整个系统易于安装、调试及维护；
- ◆ 安全性高，不同的操作权限需要输入相应的密码才能进入；
- ◆ 能非常直观地显示电源的状态参数；
- ◆ 输出8回路，在不超过额定功率的前提下，每回路输出电流不大天5A；
- ◆ 采用隔离式回路设计，系统更稳定；
- ◆ 具有短路检测及短路保护功能；
- ◆ 执行标准：GB 17945-2024。
- ◆ Modular component technology makes the entire system easy to install, commission and maintain.
- ◆ High security. Different operation permissions require entering corresponding passwords to access.
- ◆ Can display the status parameters of the power supply very intuitively.
- ◆ Output 8 circuits. Under the premise of not exceeding the rated power, the output current of each circuit is not more than 5A.
- ◆ Adopts isolated circuit design, making the system more stable.
- ◆ Has short - circuit detection and short - circuit protection functions.
- ◆ Implemented standard: GB 17945-2024.

G 型号含义 Model meaning

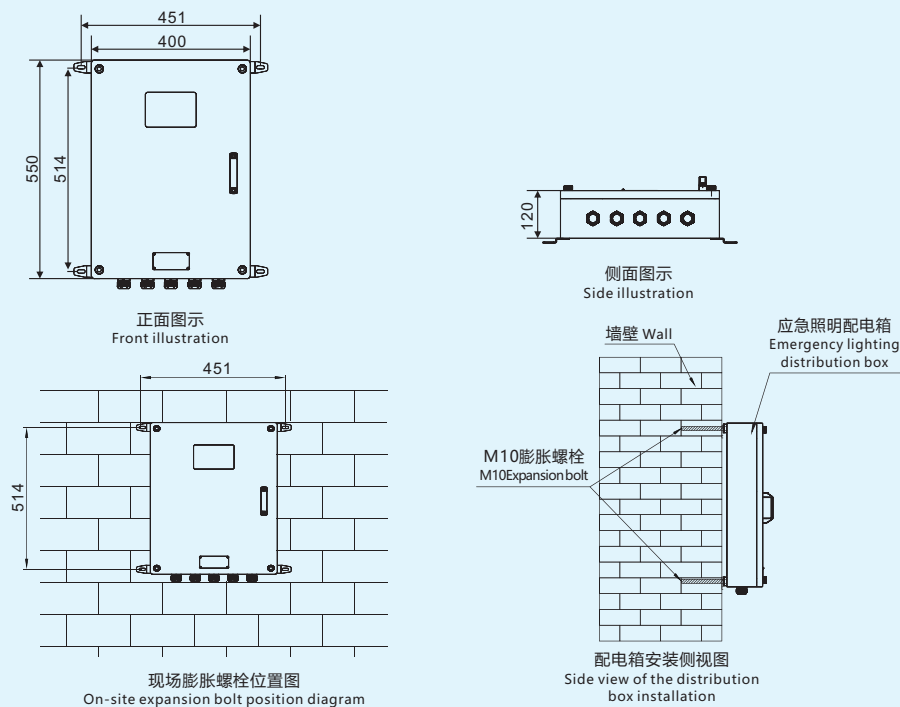
ZY-PD-□□(□/□)-SF
① ② ③ ④ ⑤ ⑥ ⑦

- ① 企业代码 Enterprise code
- ② 应急照明配电箱 Emergency lighting distribution box
- ③ 输出电压代码：A型/B型 Output voltage code: Type A; Type B
- ④ 类型：C：集中控制型 Type: C: Centralized Control type
D：非集中控制型 D: Non-centralized control type
- ⑤ 应急输出电压：DC24V、DC36V、DC48V Emergency output voltages: DC24V, DC36V, DC48V
- ⑥ 应急输出功率：1KVA/0.5KVA/0.3KVA Emergency output power: 1KVA/0.5KVA/0.3KVA
- ⑦ 防水防尘防腐 Waterproof, dustproof and anti-corrosion

G 技术参数 Technical parameter

应急照明配电箱 Emergency lighting distribution box	ZY-PD-□□(□/□)-SF
执行标准 Executive standard	GB 17945-2024
额定电压 Rated voltage	AC220V
应急时间 Emergency time	≥90min
防护等级 Protection grade	IP65
电池类型 Battery type	磷酸铁锂 Lithium iron phosphate

G 产品外形及安装图示 Product shape and installation diagram



安装方法：把四个规格M10X100的膨胀螺栓的尺寸钉在墙壁上，再把产品挂在膨胀螺栓上螺母，最后把螺母拧紧固定即可。
Installation method: Nail the dimensions of the four M10X100 expansion bolts onto the wall, then hang the product on the nuts of the expansion bolts, and finally tighten the nuts to fix it.

ZY-BZ-□□□(E□□□□)-EX

消防应急疏散标志灯具

ZY-BZ-□□□(E□□□□)-EX

Fire emergency evacuation
sign lighting fixtures

G 环境用途 Environmental use

- ◆ 广泛用于石油、化工、军工等危险环境及海洋石油平台等场所，当发生火灾时作紧急逃生疏散指示；
- ◆ 适用于爆炸性气体环境的 1 区、2 区场所；
- ◆ 适用于 IIA、IIB、IIC 类爆炸性气体环境；
- ◆ 适用于可燃性粉尘环境 21 区、22 区场所；
- ◆ 适用于 T1~T6 组温度级别；
- ◆ 适用于 -40°C~+55°C 环境温度。
- ◆ Widely used in dangerous environments such as petroleum, chemical industry, military industry, and offshore oil platforms, and used as emergency escape and evacuation indicators when a fire breaks out;
- ◆ Suitable for Zone 1 and Zone 2 of explosive gas environments;
- ◆ Suitable for IIA, IIB, and IIC types of explosive gas environments;
- ◆ Suitable for combustible dust environments in Zone 21 and Zone 22;
- ◆ Suitable for temperature classes from T1 to T6;
- ◆ Suitable for ambient temperatures from -40°C to +55°C.

G 产品特性 Product features



- ◆ 铝合金压铸外壳，高速抛丸处理后表面高压静电喷塑；
- ◆ 不锈钢外露紧固件，防腐性能高；
- ◆ 采用二总线接线方式，操作简单、方便；具有应急自动切换、时间短等特点，并设短路、开路等多种异常状态下自动保护功能；
- ◆ 具有实时与上级设备数据传输，接收应急指令即刻进入应急模式，当设备故障时，实时上报前端控制器；
- ◆ 非集控设备采用专门设计的涓流充电电路，对蓄电池进行充放电，克服二次电池自放电特性，不需人为对电池进行充放电及其他保养，大大提高了电池的寿命；
- ◆ 非集控设备内装高性能锂电池组，重量轻，使用寿命长，绿色环保，不论生产、使用和报废，都不含有、也不产生任何铅、汞、镉等有毒有害重金属元素和物质；
- ◆ 应急灯具产品自配 LED 光源，具有高亮度、长寿命、节能、环保等特点；
- ◆ 执行标准：GB/T 3836.1-2021、GB/T3836.2-2021、GB/T 3836.31-2021、GB 17945-2024
- ◆ Aluminum alloy die-cast shell, with high-pressure electrostatic spraying on the surface after high-speed shot blasting.
- ◆ Stainless steel exposed fasteners, with high corrosion resistance.
- ◆ Adopting two-wire connection mode, which is simple and convenient to operate; it has the characteristics of emergency automatic switching and short time, and is equipped with automatic protection functions under various abnormal states such as short circuit and open circuit.
- ◆ It has real-time data transmission with superior equipment, enters the emergency mode immediately upon receiving emergency instructions, and reports to the front-end controller in real time when the equipment fails.
- ◆ The non-centralized control equipment adopts a specially designed trickle charging and discharging circuit to charge and discharge the storage battery, overcoming the self-discharge characteristic of secondary batteries. There is no need for manual charging, discharging and other maintenance of the battery, which greatly improves the battery life.
- ◆ The non-centralized control equipment is equipped with a high-performance lithium battery pack inside, which is light in weight, long in service life, and green and environmentally friendly. It does not contain or produce any toxic and harmful heavy metal elements and substances such as lead, mercury, and cadmium during production, use, and disposal.
- ◆ The emergency lighting product is equipped with its own LED light source, which has the characteristics of high brightness, long service life, energy saving, and environmental protection.
- ◆ Implementation standards: GB/T 3836.1-2021, GB/T3836.2-2021, GB/T 3836.31-2021, GB 17945-2024

G 型号含义 Model meaning

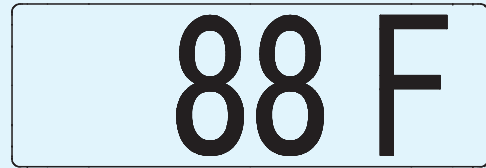
ZY-BZ-□ □ □ (E □ □ □ □)-EX
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

- ① 企业代码 Enterprise code
- ② 标志灯具 Sign lighting fixtures
- ③ 额定工作电压等级: A型/B型 Rated working voltage level: Type A; Type B
- ④ 类型: C: 集中控制型 Type: C: Centralized Control type
D: 非集中控制型 D: Non-centralized control type
- ⑤ 供电方式: J: 集中电源型 Power supply mode: J: Centralized power type
Z: 自带电源型 Z: Self-powered type
- ⑥ 发光二极管(LED) Light-emitting Diode (LED)
- ⑦ 灯具用途: S: 安全出口标志灯具 Lamp usage: S: Safety exit sign lamp
E: 疏散出口标志灯具 E: Evacuation exit sign lighting fixtures
D: 方向标志灯具 D: Directional sign lamps
F: 楼层标志灯具 F: Floor sign lighting fixtures
M: 多信息复合标志灯具 M: Multi-information composite sign lighting fixtures
- ⑧ 标志面: 单面/双面 Marking surface: Single-sided/double-sided
- ⑨ 灯具规格: I: 小型面板 I: Small panel
II: 中型面板 II: Medium-sized panel
III: 大型面板 III: Large panels
- ⑩ 方向: L: 疏散方向向左 Direction: L: Evacuation direction to the left
R: 疏散方向向右 R: Evacuate to the right
L/R: 疏散方向可变(疏散方向向左/向右) L/R: Variable evacuation direction (evacuation direction to the left/right)
F: 疏散方向向前/向上 F: The evacuation direction is forward/upward
B: 疏散方向向下 B: The evacuation direction is downward
- ⑪ 产品代码 Product code

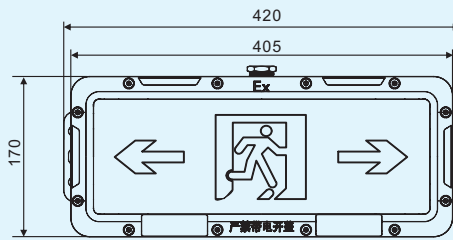
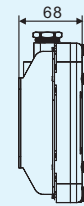
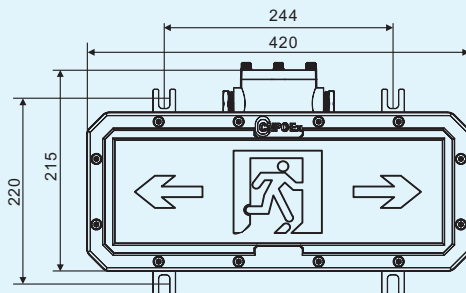
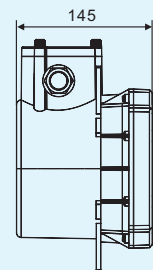
G 技术参数 Technical parameter

消防应急疏散标志灯具 Fire emergency evacuation sign lighting fixtures	ZY-BZ-□□□(E□□□□)-EX
防爆型式 Explosion proof type	 II2G Ex db eb ib mb IIB T6 Gb; Ex db eb ibmb IIC T6 Gb;  II2D Ex tb IIIC T80°C Db
气体防爆型式 Gas explosion proof type	
粉尘防爆型式 Dust explosion proof type	
执行标准 Executive standard	GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.3-2021、GB/T 3836.4-2021 GB/T 3836.9-2021、GB/T 3836.31-2021、GB 17945-2024
额定电压 Rated voltage	AC220V、DC48V、DC36V、DC24V
额定功率 Rated power	1W
应急时间 Emergency time	≥90min(自电Self-electricity)
防护等级 Protection grade	IP67
环境温度 Ambient temperature	-40°C~+55°C

G 标志牌图案 Signboard pattern

安全出口
Safety EXIT疏散出口
Evacuation EXIT向左
To the left向右
To the right双向
Bidirectional楼层
Floor

G 产品外形及安装图示 Product shape and installation diagram

I型 防爆标志灯具(下进线)
Type I Explosion-proof marking lamp
(lower incoming line)壁式安装
Wall-mounted installationII/III型 防爆标志灯具(侧进线)
Type II/III Explosion-proof marking
lamps (side incoming line)壁式安装
Wall-mounted installation

G 外形尺寸 Overall dimensions

产品系列 Product series	长(L) Long (L)	宽(W) Width (W)	高(H) High (H)	开孔距(P) Hole spacing (P)	备注 Remarks
I 型防爆标志灯具 Type I Explosion-proof marking lamps	420	170	68	410	上进线 Upper entry line
II 型防爆标志灯具 Type II Explosion-proof marking lamps	420	215	145	244	测进线 Incoming line
III 型防爆标志灯具 Type III Explosion-proof marking lamps	420	215	145	244	测进线 Incoming line

G 选配表 Selection table

规格型号 Specification and model	重量(kg)个 Weight (kg) pieces	外箱尺寸(mm) Outer box dimensions (mm)	包装数量(个) Packaging quantity(units)	毛重(kg)箱 Gross weight (kg) box
I 型防爆标志灯 Type I Explosion-proof marking lamp	2.97	405*170*67.5	6	20
II 型防爆标志灯 Type II Explosion-proof marking lamp	4.06	410*215*145	4	17
III 型防爆标志灯 Type III Explosion-proof marking lamp	7.25	410*215*145	2	16

G 定货须知 Ordering Instructions

- ◆ 定货时严格按型号含义详细说明产品各项参数，数量等。
- ◆ 如有特殊要求（如电压、标志牌等）请注明。
- ◆ When placing an order, strictly describe in detail all product parameters, quantities, etc. according to the model meaning.
- ◆ If there are any special requirements (such as voltage, signboards, etc.), please specify.

ZY-BZ-□□□(E□□□□)-SF

消防应急疏散标志灯具

ZY-BZ-□□□(E□□□□)-SF

Fire emergency evacuation
sign lighting fixtures

C 环境用途 Environmental use

- ◆ 广泛用于城市厂房、车间、仓库、展览院、管廊、超市等场所，当发生火灾时作紧急逃生疏散指示。
- ◆ 适用于对防护要求较高、潮湿的场所。
- ◆ 适用于-40℃~+55℃温度环境。
- ◆ Widely used in urban factories, workshops, warehouses, exhibition halls, pipe galleries, supermarkets and other places, and used as emergency escape and evacuation indicators when a fire breaks out.
- ◆ Suitable for places with high protection requirements and humid conditions.
- ◆ Suitable for temperature environments from -40°C to +55°C.

C 产品特性 Product features

- ◆ 不锈钢 + 塑料外壳，抛光处理；
- ◆ 不锈钢外露紧固件，防腐性能高；
- ◆ 采用二总线接线方式，操作简单、方便；具有应急自动切换、时间短等特点，并设短路、开路等多种异常状态下自动保护功能；
- ◆ 具有实时与上级设备数据传输，接收应急指令即刻进入应急模式，当设备故障时，实时上报前端控制器；
- ◆ 非集控设备采用专门设计的涓流充放电电路，对蓄电池进行充放电，克服二次电池自放电特性，不需人为对电池进行充放电及其他保养，大大提高了电池的寿命；
- ◆ 非集控设备内装高性能锂电池组，重量轻，使用寿命长，绿色环保，不论生产、使用和报废，都不含有、也不产生任何铅、汞、镉等有毒有害重金属元素和物质；
- ◆ 应急灯具产品自配 LED 光源，具有高亮度、长寿命、节能、环保等特点；
- ◆ 执行标准：GB 17945-2024
- ◆ Stainless steel + plastic shell, polished;
- ◆ Stainless steel exposed fasteners, high corrosion resistance;
- ◆ Adopt two-bus wiring method, simple and convenient to operate; It has the characteristics of automatic emergency switching, short time, etc., and is equipped with automatic protection functions under various abnormal states such as short circuit and open circuit;
- ◆ It has real-time data transmission with superior equipment, enters the emergency mode immediately upon receiving emergency instructions, and reports to the front-end controller in real time when the equipment fails;
- ◆ The non-failure equipment adopts a specially designed trickle charging and discharging circuit to charge and discharge the storage battery, overcoming the self-discharge characteristics of secondary batteries, without the need for manual charging, discharging and other maintenance of the battery, greatly improving the battery life;
- ◆ The non-failure equipment is equipped with a high-performance lithium battery pack, which is light in weight, long in service life, green and environmentally friendly. It does not contain or produce any toxic and harmful heavy metal elements and substances such as lead, mercury, and cadmium during production, use, and disposal;
- ◆ Emergency lighting products are self-equipped with LED light sources, which have the characteristics of high brightness, long service life, energy saving, environmental protection, etc.;
- ◆ Execution standard: GB 17945-2024

G 型号含义 Model meaning

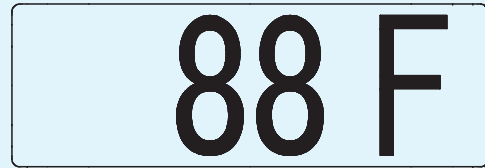
ZY-BZ-□ □ □ (E □ □ □ □)-SF
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

- ① 企业代码 Enterprise code
- ② 标志灯具 Sign lighting fixtures
- ③ 额定工作电压等级: A型/B型 Rated working voltage level: Type A; Type B
- ④ 类型: C: 集中控制型 Type: C: Centralized Control type
D: 非集中控制型 D: Non-centralized control type
- ⑤ 供电方式: J: 集中电源型 Power supply mode: J: Centralized power type
Z: 自带电源型 Z: Self-powered type
- ⑥ 发光二极管(LED) Light-emitting Diode (LED)
- ⑦ 灯具用途: S: 安全出口标志灯具 Lamp usage: S: Safety exit sign lamp
E: 疏散出口标志灯具 E: Evacuation exit sign lighting fixtures
D: 方向标志灯具 D: Directional sign lamps
F: 楼层标志灯具 F: Floor sign lighting fixtures
M: 多信息复合标志灯具 M: Multi-information composite sign lighting fixtures
- ⑧ 标志面: 单面/双面 Marking surface: Single-sided/double-sided
- ⑨ 灯具规格: I: 小型面板 I: Small panel
II: 中型面板 II: Medium-sized panel
III: 大型面板 III: Large panels
- ⑩ 方向: L: 疏散方向向左 Direction: L: Evacuation direction to the left
R: 疏散方向向右 R: Evacuate to the right
L/R: 疏散方向可变(疏散方向向左/向右) L/R: Variable evacuation direction (evacuation direction to the left/right)
F: 疏散方向向前/向上 F: The evacuation direction is forward/upward
B: 疏散方向向下 B: The evacuation direction is downward
- ⑪ 防水防尘防腐 Waterproof, dustproof and anti-corrosion

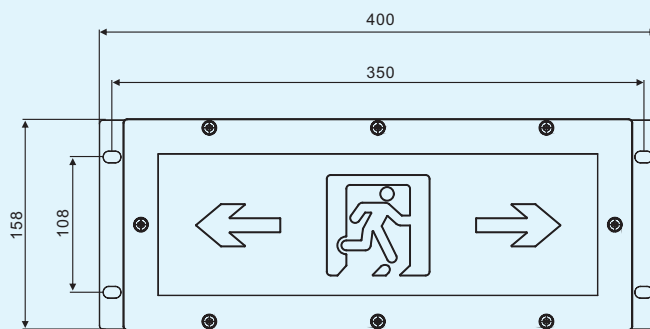
G 技术参数 Technical parameter

消防应急疏散标志灯具 Fire emergency evacuation sign lighting fixtures	ZY-BZ-□□□(E□□□□)-SF
执行标准 Executive standard	GB 17945-2024
额定电压 Rated voltage	AC220V、DC48V、DC36V、DC24V
额定功率 Rated power	1W
应急时间 Emergency time	≥90min
防护等级 Protection grade	IP67
充电时间 Charging time	≥24H
环境温度 Ambient temperature	-40°C~+55°C

G 标志牌图案 Signboard pattern

安全出口
Safety EXIT疏散出口
Evacuation EXIT向左
To the left向右
To the right双向
Bidirectional楼层
Floor

G 产品外形图示 Product shape illustration

正面图示
Front illustration侧面图示
Side illustration

G 外形尺寸 Overall dimensions

产品系列 Product series	长(L) Long (L)	宽(W) Width (W)	高(H) High (H)	孔距(P1) Hole spacing (P1)
I 型防水防尘防腐标志灯具 Type I Waterproof, dustproof and anti-corrosion sign lighting fixtures	400	158	25	350
II 型防水防尘防腐标志灯具 Type II Waterproof, dustproof and anti-corrosion sign lighting fixtures	600	200	25	562
III 型防水防尘防腐标志灯具 Type III Waterproof, dustproof and anti-corrosion sign lighting fixtures	600	200	25	562

G 选配表 Selection table

规格型号 Specification and model	重量(kg)个 Weight (kg) pieces	外箱尺寸(mm) Outer box dimensions (mm)	内盒尺寸(mm) Inner box dimensions (mm)	包装数量(个) Packaging quantity(units)	毛重(kg)箱 Gross weight (kg) box
I 型标志灯 Type I sign light	1.02	395*375*170	365*70*160	10	12
II 型标志灯 Type II sign light	1.02	395*375*170	365*70*160	10	12
III 型标志灯 Type III sign light	1.82	635*290*230	615*220*40	6	12

G 定货须知 Ordering Instructions

- ◆ 定货时严格按型号含义详细说明产品各项参数，数量等。
- ◆ 如有特殊要求（如电压、标志牌等）请注明。
- ◆ When placing an order, strictly describe in detail all product parameters, quantities, etc. according to the model meaning.
- ◆ If there are any special requirements (such as voltage, signboards, etc.), please specify.

ZY-ZM-□□□(FE□)-□-EX

消防应急照明灯具

ZY-ZM-□□□(FE□)-□-EX

Fire emergency lighting
fixtures

C 环境用途 Environmental use

- ◆ 广泛用于石油、化工、军工等危险环境及海洋石油平台等场所，当发生火灾时作紧急逃生之照明用；
- ◆ 适用于爆炸性气体环境的 1 区、2 区场所；
- ◆ 适用于 IIA、IIB、IIC 类爆炸性气体环境；
- ◆ 适用于可燃性粉尘环境 21 区、22 区场所；
- ◆ 适用于 T1 - T6 组温度级别；
- ◆ 适用于 -40°C ~ +55°C 环境温度。
- ◆ Widely used in dangerous environments such as petroleum, chemical industry, and military industry, as well as in places like offshore oil platforms. It is used as emergency escape lighting when a fire breaks out.
- ◆ Suitable for Zone 1 and Zone 2 of explosive gas environments.
- ◆ Suitable for IIA, IIB, and IIC types of explosive gas environments.
- ◆ Suitable for Zone 21 and Zone 22 of combustible dust environments.
- ◆ Suitable for temperature classes T1 - T6.
- ◆ Suitable for ambient temperatures from -40°C to +55°C.

C 产品特性 Product features

- ◆ 铝合金压铸外壳，高速抛丸处理后表面高压静电喷塑；
- ◆ 不锈钢外露紧固件，防腐性能高；
- ◆ 应急电源装置，接线简单、方便，具有输入电压范围，应急切换时间短等特点，并设短路、开路等多种异常状态下自动保护功能，在正常供电时自动充电，事故断电时应急灯自动应急照明；
- ◆ 采用专门设计的涓流充放电电路，对蓄电池进行充放电，克服二次电池自放电特性，不需人为对电池进行充放电及其他保养，大大提高了电池的寿命；
- ◆ 内装高性能锂电池组，重量轻，使用寿命长，绿色环保，不论生产、使用和报废，都不含有、也不产生任何铅、汞、镉等有毒有害重金属元素和物质；
- ◆ 配 LED 光源，高亮度、长寿命，节能，环保；
- ◆ 执行标准：GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.31-2021、GB 17945-2024
- ◆ Aluminum alloy die-cast shell, with high-pressure electrostatic spraying on the surface after high-speed shot blasting treatment;
- ◆ Stainless steel exposed fasteners, featuring high corrosion resistance;
- ◆ The emergency power supply device has the characteristics of simple and convenient wiring, an input voltage range, short emergency switching time, etc. It is also equipped with automatic protection functions under various abnormal conditions such as short circuit and open circuit. It automatically charges during normal power supply, and the emergency light automatically provides emergency lighting when there is an accident power failure;
- ◆ It adopts a specially designed trickle charging and discharging circuit to charge and discharge the storage battery, overcoming the self-discharge characteristic of secondary batteries. There is no need for manual charging, discharging or other maintenance of the battery, which greatly extends the battery life;
- ◆ It is equipped with a high-performance lithium battery pack, which is light in weight, has a long service life, and is green and environmentally friendly. During production, use and scrapping, it neither contains nor produces any toxic and harmful heavy metal elements and substances such as lead, mercury and cadmium;
- ◆ Equipped with an LED light source, it has high brightness, long service life, energy saving and environmental protection;
- ◆ Implementation standards: GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.31-2021、GB 17945-2024

G 型号含义 Model meaning

ZY-ZM-□□□(FE□)-□-EX
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

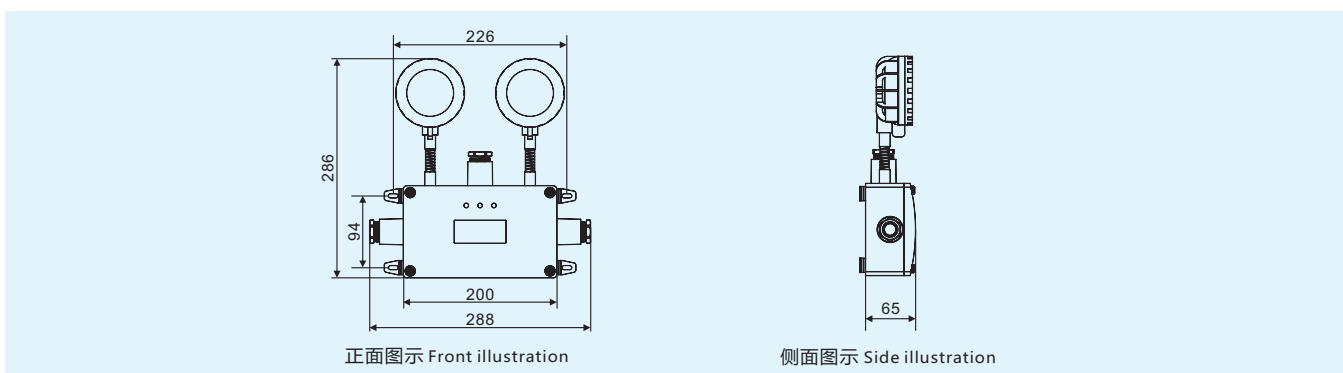
- ① 企业代码 Enterprise code
- ② 照明灯具 Lighting fixtures
- ③ 额定工作电压：A型/B型 Rated working voltage: Type A Type B
- ④ 类型：C：集中控制型 Type: C: Centralized Control type
D：非集中控制型 D: Non-centralized control type
- ⑤ 供电方式：J：集中电源型 Power supply mode: J: Centralized power type
Z：自带电源型 Z: Self-powered type
- ⑥ 非持续型 Non-continuous type
- ⑦ 灯具光原为LED The light source of the lamp is LED
- ⑧ 灯具的光通量(lm)：360、600、720 The luminous flux (lm) of the lamps :360、600、720
- ⑨ 额定功率：3W、5W、6W Rated power: 3W, 5W, 6W
- ⑩ 防爆 Explosion-proof

G 技术参数 Technical parameter

消防应急照明灯具 Fire emergency lighting fixtures	ZY-ZM-□□□(FE□)-□-EX
防爆型式 Explosion proof type	Ex II2G Ex db eb mb IIB T6 Gb; Ex db eb mb IIC T6 Gb
气体防爆型式 Gas explosion proof type	Ex II2D Ex tb IIIC T80°C Db
粉尘防爆型式 Dust explosion proof type	
执行标准 Executive standard	GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.3-2021 GB/T 3836.9-2021、GB/T 3836.31-2021、GB 17945-2024
额定电压 Rated voltage	AC220V、DC48V、DC36V、DC24V
环境温度 Ambient temperature	-40°C~+55°C
防护等级 Protection grade	IP67
型号规格 Model specification	额定功率 Rated power
ZY-ZM-□□□(FE720)-6W-EX	6W
ZY-ZM-□□□(FE600)-5W-EX	5W
ZY-ZM-□□□(FE360)-3W-EX	3W

CNPGEEx
ZHONG YOU EXPLOSION PROOF ELECTRICAL
中油防爆

G 产品外形图示 Product shape illustration



ZY-ZM-□□□(FE□)-□-SF

消防应急照明灯具

ZY-ZM-□□□(FE□)-□-SF

Fire emergency lighting
fixtures

C 环境用途 Environmental use

- ◆ 广泛用于城市厂房、车间、仓库、展览院、管廊、超市等场所，当发生火灾时作紧急逃生照明。
- ◆ 适用于对防护要求较高、潮湿的场所。
- ◆ 适用于-40℃~+55℃温度环境。
- ◆ Widely used in urban factories, workshops, warehouses, exhibition halls, utility tunnels, supermarkets and other places, and used as emergency escape lighting when a fire breaks out.
- ◆ Suitable for places with relatively high protection requirements and damp environments.
- ◆ Suitable for temperature environments from -40℃ to +55℃.

C 产品特性 Product features

- ◆ 不锈钢 + 塑料外壳，抛光处理；
- ◆ 不锈钢外露紧固件，防腐性能高；
- ◆ 采用二总线接线方式，操作简单、方便；具有应急自动切换、时间短等特点，并设短路、开路等多种异常状态下自动保护功能；
- ◆ 具有实时与上级设备数据传输，接收应急指令即刻进入应急模式，当设备故障时，实时上报前端控制器；
- ◆ 非集控设备采用专门设计的涓流充放电电路，对蓄电池进行充放电，克服二次电池自放电特性，不需人为对电池进行充放电及其他保养，大大提高了电池的寿命；
- ◆ 非集控设备内装高性能锂电池组，重量轻，使用寿命长，绿色环保，不论生产、使用和报废，都不含有、也不产生任何铅、汞、镉等有毒有害重金属元素和物质；
- ◆ 应急灯具产品自配 LED 光源，具有高亮度、长寿命、节能、环保等特点；
- ◆ 执行标准：GB 17945-2024
- ◆ Stainless steel + plastic shell, polished.
- ◆ Stainless steel exposed fasteners, with high corrosion resistance.
- ◆ Adopting two-wire connection mode, which is simple and convenient to operate; it has the characteristics of emergency automatic switching and short time, and is equipped with automatic protection functions under various abnormal states such as short circuit and open circuit.
- ◆ It can transmit data with superior equipment in real time, enter the emergency mode immediately upon receiving emergency instructions, and report to the front-end controller in real time when the equipment fails.
- ◆ The non-centralized control equipment adopts a specially designed trickle charging and discharging circuit to charge and discharge the storage battery, overcoming the self-discharge characteristic of secondary batteries. There is no need for manual charging, discharging and other maintenance of the battery, which greatly improves the battery life.
- ◆ The non-centralized control equipment is equipped with a high-performance lithium battery pack inside, which is light in weight, long in service life, and green and environmentally friendly. It does not contain or produce any toxic and harmful heavy metal elements and substances such as lead, mercury, and cadmium during production, use, and disposal.
- ◆ The emergency lighting product is equipped with its own LED light source, which has the characteristics of high brightness, long service life, energy saving, and environmental protection.
- ◆ Implementation standard: GB 17945-2024

G 型号含义 Model meaning

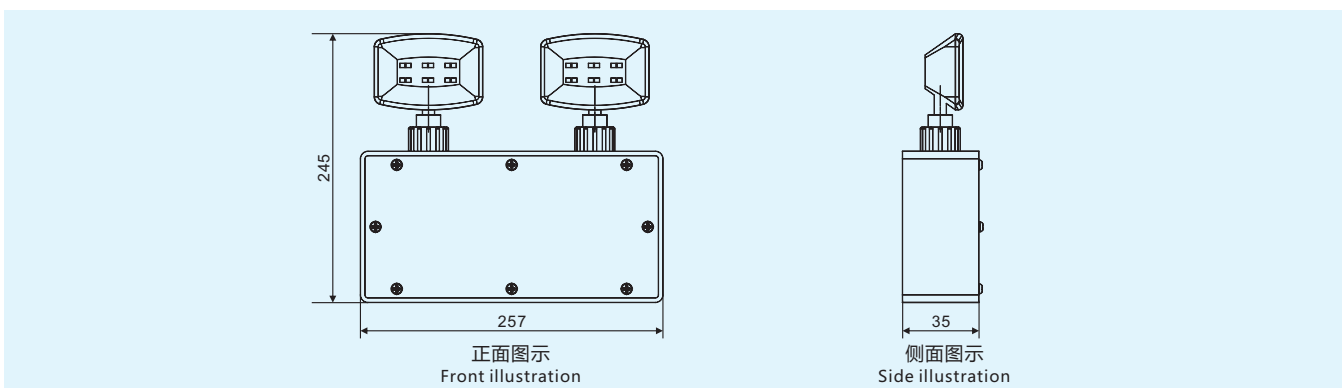
ZY-ZM-□□□(FE□)-□-SF
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① 企业代码 Enterprise code
- ② 照明灯具 Lighting fixtures
- ③ 额定工作电压：A型/B型 Rated working voltage: Type A Type B
- ④ 类型：C：集中控制型 Type: C: Centralized Control type
D：非集中控制型 D: Non-centralized control type
- ⑤ 供电方式：J：集中电源型 Power supply mode: J: Centralized power type
Z：自带电源型 Z: Self-powered type
- ⑥ 非持续型 Non-continuous type
- ⑦ 灯具光原为LED The light source of the lamp is LED
- ⑧ 灯具的光通量(lm)：360、600、720 The luminous flux (lm) of the lamps :360、600、720
- ⑨ 额定功率：3W、5W、6W Rated power: 3W,5W, 6W
- ⑩ 防水防尘防腐 Waterproof, dustproof and anti-corrosion

G 技术参数 Technical parameter

消防应急照明灯具 Fire emergency lighting fixtures	ZY-ZM-□□□(FE□)-□-SF
执行标准 Executive standard	GB 17945-2024
额定电压 Rated voltage	AC220V、DC48V、DC36V、DC24V
环境温度 Ambient temperature	-40°C~+55°C
防护等级 Protection grade	IP67
型号规格 Model specification	额定功率 Rated power
ZY-ZM-□□□(FE720)-6W-SF	6W
ZY-ZM-□□□(FE600)-5W-SF	5W
ZY-ZM-□□□(FE360)-3W-SF	3W

G 产品外形图示 Product shape illustration



ZY-ZM-□□□(FE□)-□EX

消防应急照明灯具

ZY-ZM-□□□(FE□)-□EX

Fire emergency lighting
fixtures

C 环境用途 Environmental use

- ◆ 消防应急照明灯具（以下简称应急灯）适用于工业厂房、油田、加油站、油库、化工厂、蒸气环境、易燃易爆、粉尘环境等场所，在发生停电、火灾、地震等突发性灾害事故时，为人员疏散、消防作业提供应急照明之用；
- ◆ 适用于无明显破坏金属和绝缘的腐蚀性气体或蒸气的环境中；
- ◆ 海拔高度：不超过 2000 米；
- ◆ 大气压力：80Kpa~110Kpa；
- ◆ 周围空气相对湿度不大于 95%(25℃时)；
- ◆ 适用于 - 40℃~+55℃环境温度。
- ◆ Fire emergency lighting fixtures (hereinafter referred to as emergency lights) are suitable for industrial plants, oil fields, gas stations, oil depots, chemical plants, steam environments, flammable and explosive, dust environments and other places. They are used to provide emergency lighting for personnel evacuation and fire-fighting operations in case of sudden disasters such as power failure, fire, and earthquake.
- ◆ Suitable for environments without corrosive gases or vapors that obviously damage metals and insulation.
- ◆ Altitude: no more than 2000 meters.
- ◆ Atmospheric pressure: 80Kpa - 110Kpa.
- ◆ The relative humidity of the surrounding air is not more than 95% (at 25°C).
- ◆ Suitable for ambient temperature from - 40°C to + 55°C.

C 产品特性 Product features

- ◆ 应急灯外壳均采用优质铝合金压铸而成，表面高压静电喷塑；
- ◆ 外露紧固件采用不锈钢材质，防腐性能高；
- ◆ 外壳接合面采用螺纹及直口隔爆，防爆性能可靠；
- ◆ 采用优质的高透光钢化玻璃，耐高温、耐老化，耐 4J 冲击；
- ◆ 采用二总线接线方式，操作简单、方便；具有应急自动切换、时间短等特点，并设短路、开路等多种异常状态下自动保护功能；
- ◆ 具有实时与上级设备数据传输，接收应急命令即刻进入应急模式，当设备故障时，实时上报前端控制器；
- ◆ 非集控设备采用专门设计的涓流充放电电路，对蓄电池进行充放电，克服二次电池自放电特性，不需人为对电池进行充放电及其他保养，大大提高了电池的寿命；
- ◆ 非集控设备内装高性能锂电池组，重量轻，使用寿命长，绿色环保，不论生产、使用和报废，都不含有、也不产生任何铅、汞、镉等有毒有害重金属元素和物质；
- ◆ 应急灯具产品配 LED 光源，具有高亮度、长寿命、节能、环保等特点；
- ◆ 执行标准：GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.3-2021、GB/T 3836.9-2021、GB/T 3836.31-2021、GB 17945-2024
- ◆ The outer shells of all emergency lights are made by die-casting high-quality aluminum alloy, and the surfaces are electrostatically sprayed with high pressure.
- ◆ Exposed fasteners are made of stainless steel, which has high corrosion resistance.
- ◆ The joint surfaces of the shells adopt thread and straight-mouth explosion isolation, and the explosion-proof performance is reliable.
- ◆ High-transmittance tempered glass of good quality is adopted, which is resistant to high temperature, aging, and 4J impact.
- ◆ The two-bus wiring method is adopted, which is simple and convenient to operate; it has the characteristics of automatic emergency switching and short time, and is equipped with automatic protection functions under various abnormal states such as short circuit and open circuit.
- ◆ It has real-time data transmission with superior equipment, receives emergency commands and immediately enters the emergency mode. When the equipment fails, it reports to the front-end controller in real time.
- ◆ Non-centralized control equipment adopts specially designed trickle charge and discharge circuits to charge and discharge the storage battery, overcoming the self-discharge characteristic of secondary batteries. There is no need for manual charging, discharging or other maintenance of the battery, which greatly improves the service life of the battery.
- ◆ High-performance lithium battery packs are installed in non-centralized control equipment, which are light in weight, have a long service life, and are green and environmentally friendly. Whether in production, use or scrapping, they do not contain or produce any toxic and harmful heavy metal elements and substances such as lead, mercury and cadmium.
- ◆ Emergency lighting fixtures are equipped with LED light sources, which have the characteristics of high brightness, long service life, energy saving and environmental protection.
- ◆ Implemented standards: GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.3-2021、GB/T 3836.9-2021、GB/T 3836.31-2021、GB 17945-2024

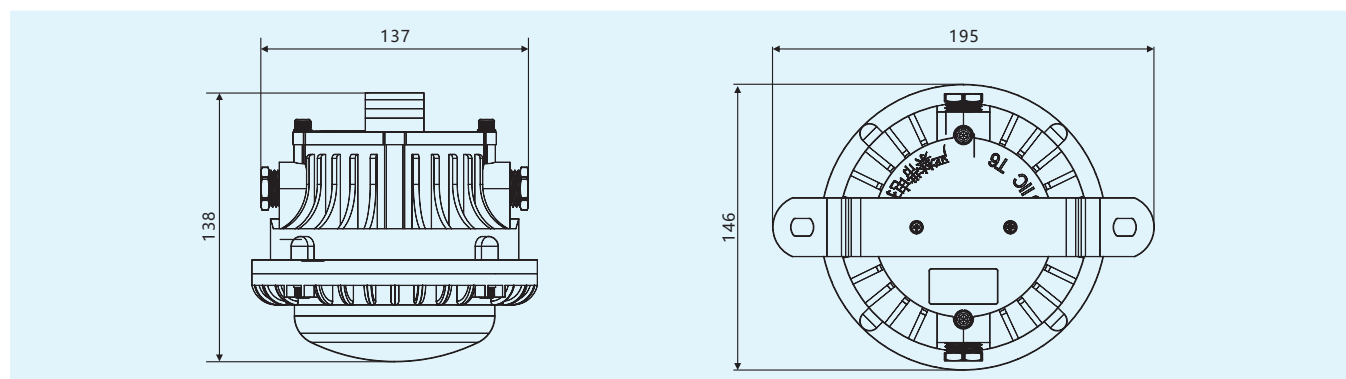
G 型号含义 Model meaning

ZY-ZM-□ □ □ (F E □) - □ EX	
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	
① 企业代码 Enterprise code	
② 照明灯具 Lighting fixtures	
③ 额定工作电压: A型/B型 Rated working voltage: Type A Type B	
④ 类型: C:集中控制型 Type: C: Centralized Control type D:非集中控制型 D: Non-centralized control type	
⑤ 供电方式: J:集中电源型 Power supply mode: J: Centralized power type Z:自带电源型 Z: Self-powered type	
⑥ 非持续型 Non-continuous type	
⑦ 灯具光原为LED The light source of the lamp is LED	
⑧ 灯具的光通量(lm): 600、720、1200、1800、2400 The luminous flux (lm) of the lamps :600、720、1200、1800、2400	
⑨ 额定功率: 5W、6W、10W、15W、20W Rated power: 5W, 6W, 10W, 15W, 20W	
⑩ 防水防尘防腐 Waterproof, dustproof and anti-corrosion	

G 技术参数 Technical parameter

消防应急照明灯具 Fire emergency lighting fixtures	ZY-ZM-□□□(FE□)-□EX
防爆型式 Explosion proof type	Ex II2G Ex db IIB T6 Gb; Ex db IIC T6 Gb
气体防爆型式 Gas explosion proof type	Ex II2D Ex tb IIIC T80°C Db
粉尘防爆型式 Dust explosion proof type	
执行标准 Executive standard	GB/T 3836.1-2021、GB/T 3836.2-2021、GB/T 3836.31-2021、GB 17945-2024
额定电压 Rated voltage	AC220V、DC48V、DC36V、DC24V
环境温度 Ambient temperature	-40°C~+55°C
防护等级 Protection grade	IP67
型号规格 Model specification	额定功率 Rated power
ZY-ZM-□□□(FE2400)-20WEX	20W
ZY-ZM-□□□(FE1800)-15WEX	15W
ZY-ZM-□□□(FE1200)-10WEX	10W
ZY-ZM-□□□(FE720)-6WEX	6W
ZY-ZM-□□□(FE600)-5WEX	5W

G 产品外形图示 Product shape illustration



ZY-ZM-□□□(FE□)-□SF

消防应急照明灯具

ZY-ZM-□□□(FE□)-□SF

Fire emergency lighting
fixtures

C 环境用途 Environmental use

- ◆ 消防应急照明灯具（以下简称应急灯）适用于工业厂房、油田、加油站、油库、化工厂、蒸气环境、易燃易爆、粉尘环境等场所，在发生停电、火灾、地震等突发性灾害事故时，为人员疏散、消防作业提供应急照明之用；
- ◆ 适用于无明显破坏金属和绝缘的腐蚀性气体或蒸气的环境中；
- ◆ 海拔高度：不超过 2000 米；
- ◆ 大气压力：80Kpa~110Kpa；
- ◆ 周围空气相对湿度不大于 95%(25℃时)；
- ◆ 适用于 - 40℃~+55℃环境温度。
- ◆ Fire emergency lighting fixtures (hereinafter referred to as emergency lights) are suitable for industrial plants, oil fields, gas stations, oil depots, chemical plants, steam environments, flammable and explosive, dust environments and other places. They are used to provide emergency lighting for personnel evacuation and fire-fighting operations in case of sudden disasters such as power failure, fire, and earthquake.
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C 产品特性 Product features

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- ◆ 外露紧固件采用不锈钢材质，防腐性能高；
- ◆ 外壳接合面采用螺纹及直口隔爆，防爆性能可靠；
- ◆ 采用优质的高透光钢化玻璃，耐高温、耐老化，耐 4J 冲击；
- ◆ 采用二总线接线方式，操作简单、方便；具有应急自动切换、时间短等特点，并设短路、开路等多种异常状态下自动保护功能；
- ◆ 具有实时与上级设备数据传输，接收应急命令即刻进入应急模式，当设备故障时，实时上报前端控制器；
- ◆ 非集控设备采用专门设计的涓流充放电电路，对蓄电池进行充放电，克服二次电池自放电特性，不需人为对电池进行充放电及其他保养，大大提高了电池的寿命；
- ◆ 非集控设备内装高性能锂电池组，重量轻，使用寿命长，绿色环保，不论生产、使用和报废，都不含有、也不产生任何铅、汞、镉等有毒有害重金属元素和物质；
- ◆ 应急灯具产品配 LED 光源，具有高亮度、长寿命、节能、环保等特点；
- ◆ 执行标准：GB 17945-2024
- ◆ The outer shells of all emergency lights are made by die-casting high-quality aluminum alloy, and the surfaces are electrostatically sprayed with high pressure.
- ◆ Exposed fasteners are made of stainless steel, which has high corrosion resistance.
- ◆ The joint surfaces of the shells adopt thread and straight-mouth explosion isolation, and the explosion-proof performance is reliable.
- ◆ High-transmittance tempered glass of good quality is adopted, which is resistant to high temperature, aging, and 4J impact.
- ◆ The two-bus wiring method is adopted, which is simple and convenient to operate; it has the characteristics of automatic emergency switching and short time, and is equipped with automatic protection functions under various abnormal states such as short circuit and open circuit.
- ◆ It has real-time data transmission with superior equipment, receives emergency commands and immediately enters the emergency mode. When the equipment fails, it reports to the front-end controller in real time.
- ◆ Non-centralized control equipment adopts specially designed trickle charge and discharge circuits to charge and discharge the storage battery, overcoming the self-discharge characteristic of secondary batteries. There is no need for manual charging, discharging or other maintenance of the battery, which greatly improves the service life of the battery.
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- ◆ Emergency lighting fixtures are equipped with LED light sources, which have the characteristics of high brightness, long service life, energy saving and environmental protection.
- ◆ Implemented standards: GB 17945-2024

G 型号含义 Model meaning

ZY-ZM-□ □ □ (F E □) - □ SF
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① 企业代码 Enterprise code
- ② 照明灯具 Lighting fixtures
- ③ 额定工作电压：A型/B型 Rated working voltage: Type A Type B
- ④ 类型：C：集中控制型 Type: C: Centralized Control type
D: 非集中控制型 D: Non-centralized control type
- ⑤ 供电方式：J：集中电源型 Power supply mode: J: Centralized power type
Z: 自带电源型 Z: Self-powered type
- ⑥ 非持续型 Non-continuous type
- ⑦ 灯具光原为LED The light source of the lamp is LED
- ⑧ 灯具的光通量(lm)：600、720、1200、1800、2400 The luminous flux (lm) of the lamps :600、720、1200、1800、2400
- ⑨ 额定功率：5W、6W、10W、15W、20W Rated power: 5W, 6W, 10W, 15W, 20W
- ⑩ 防水防尘防腐 Waterproof, dustproof and anti-corrosion

G 技术参数 Technical parameter

消防应急照明灯具 Fire emergency lighting fixtures	ZY-ZM-□□□(FE□)-□SF
执行标准 Executive standard	GB 17945-2024
额定电压 Rated voltage	AC220V、DC48V、DC36V、DC24V
环境温度 Ambient temperature	-40°C~+55°C
防护等级 Protection grade	IP67
型号规格 Model specification	额定功率 Rated power
ZY-ZM-□□□(FE2400)-20WSF	20W
ZY-ZM-□□□(FE1800)-15WSF	15W
ZY-ZM-□□□(FE1200)-10WSF	10W
ZY-ZM-□□□(FE720)-6WSF	6W
ZY-ZM-□□□(FE600)-5WSF	5W

G 产品外形图示 Product shape illustration

