FEICE®
飞策

Products type-chosing manual

产品选型手册

第12版 Ex

防爆灯具类

Explosion proof Lamp

飞策防爆电器股份有限公司

FEICE EXPLOSION-PROOF ELECTRIC CO.,LTD

中国·飞策防爆电器股份有限公司

产品样册

防爆灯具类

防爆 LED 灯具.....
FCD(F、T、P)96 系列防爆高效 LED 灯.....3
FCF98 系列防爆 LED 灯（投光灯、泛光灯、路灯）.....13
BAD63-A 系列防爆高效节能 LED 灯(平台灯).....21
FCD96-口 M 系列防爆 LED 吸顶灯.....23
BAD63-A 系列防爆高效节能 LED 灯.....28
FCD92-口系列防爆高效节能 LED 灯.....32
防爆消防应急灯具：.....
FC-ZFJC-E6W/FC-ZFJC-E9W 集中电源集中控制型消防应急照明灯具.....36
FC-D-0.5KVA-系列应急照明集中电源（消防应急灯具专用应急电源）.....39
FC-C-B-C006(C003)应急照明控制器.....42
FC-BLJC-I1LROE1W-dYD-B 集中电源集中控制型消防应急标志灯具.....45
FC-BLZD-I1LROE3W-dYD-B-口消防应急标志灯具.....48
FC-ZFZD-E6W-CBB-J-口消防应急照明灯具.....50
防爆荧光灯具：.....
dYD-系列防爆（LED）荧光灯.....52
防爆移动照明灯具：.....
BS51-系列防爆调光手电筒.....56
BS52-系列手提式防爆探照灯.....58
IW5130/LT 微型防爆头灯.....60
IW5510 手提式强光防爆巡检工作灯.....62
JM7300 微型防爆手电筒.....64
MSL4700 多功能袖珍防爆信号灯.....66
其他防爆灯具：.....
ABSg-系列防爆视孔灯.....68
FCBJ-系列防爆声光报警器.....70
BHZD 防爆航空闪光障碍灯.....72
BAD63-A 系列太阳能防爆路灯.....74
口 AD62-系列防爆灯.....76
BSD4-系列防爆投光灯.....80
BSD4-系列防爆泛光灯.....82
BAL-系列防爆镇流器.....86
FCT95 防爆检修灯.....88
BGD-系列防爆高杆灯.....90

FCD(F、T、P)96系列防爆高效节能LED灯

FCD(F、T、P)96 series explosion-proof high efficiency and energy saving LED lamp



I型 Type　　II型 Type　　III型 Type

型号规格含义 Model specifications implication

型号: FCD 96 -□ □ □ □ □

- 防爆高效节能LED灯Explosion-proof high efficiency and energy saving LED lamp
- 设计序号 Design No
- 额定功率Rated power
  - A-CREE 3535灯珠配明纬电源 CREE 3535 lamp beads with Meanwell power supply
  - B-欧司朗 3030灯珠配茂硕电源 OSRAM 3030 lamp beads with Moso power supply
  - C-欧司朗 3030的灯珠配明纬电源 OSRAM 3030 lamp beads with Meanwell power supply
  - D-CREE 5050灯珠配明纬电源 CREE 3030 lamp beads with Meanwell power supply
- □ ①-平台式 Roof garden type
- B2-壁式安装90° Wall type90°
- B1-壁式安装30° Wall type30°
- Z-支架式 Stents type
- G-吊杆式③ Suspender type
- X-吸顶式③ Ceiling type
- H-配接线盒 With terminal block
- J-带应急功能 With emergency function

①:代表安装型式，分别有A型、B型、C型、D型、E型、H型、I型、J型。

①: Stands ofr installation forms code,there were respectively:A Typr,B Type,C Type,D Type,E Type,H Type,I Type,J Type.

适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于照明节能改造项目及检修更换困难的场所；
3. 适用于爆炸性气体环境的1区、2区；
4. 适用于ⅡA、ⅡB、ⅡC类爆炸性气体环境；
5. 适用于可燃性粉尘环境的21区、22区；
6. 适用于防护要求较高，潮湿的场所；
7. 适用于-50℃~+50℃环境。

1. Widely used in oil extraction, oil refining, chemical industry, military and other dangerous environment and offshore oil platforms, oil tankers and other places for common lighting and working lighting;
2. Suitable for lighting energy saving renovation project and the replacement of difficult places;
3. Suitable for explosive gas environment zone 1, zone 2;
4. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
5. Suitable for combustible dust environment in the area 22, 21;
6. Suitable for high protection requirements, damp places;
7. Suitable for environments from -50℃ to +50℃.

执行标准 Accord with the standard for

GB3836.1、GB3836.2、GB12476.1、GB12476.5、IEC60079.0、IEC60079.1、IEC61241-0、IEC61241-1。

FCD(F、T、P)96系列防爆高效节能LED灯

FCD(F、T、P)96 series explosion-proof high efficiency and energy saving LED lamp

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■ 主要技术参数 Main technical parameters

型号规格 Type specifications	额定电压(V) Rated voltage	额定功率(W) Rated Power	壳体类型 Shell Type	防爆标志 Ex-mark	防护等级 Degree of protection	防腐等级 Erosion-proof -class	电缆外径(mm) Cable outer dia.	进线口螺纹(G) Inlet thread
FCD96系列	AC174V~AC264V; AC127V~AC295V; 50/60Hz	20	I	Exd ⅡC T6 Gb ExtD A21 IP66 T80℃(-50℃~+40℃) Exd ⅡC T5 Gb ExtD A21 IP66 T95℃(-50℃~+50℃)	IP65 IP66*	WF1 WF2*	Φ10~Φ14	G3/4
		30	I					
		40	I					
		50	I					
		60	I					
		70	II					
		80	II					
		100	II					
		120	III					
		150	III					

注：* 要求订货时请注明 Note: * Please specify when ordering

■ 带应急功能参数 Parameters with emergency function

应急起动时间（s） Starting time of emergency	充电时间（h） Charging time	应急功率（W） Emergency power
≤0.3	24	≤30

■ 产品特点 Featrues

1. 外壳采用优质铸造铝合金压铸成型，具有表面光滑、内部组织细密、结构轻巧、抗冲击能力强等特点，外壳表面经高速抛丸后静电喷塑，外形美观。
2. 灯具光源腔壳体采用冷锻一体式散热器结构，其热传导率约 209W/M.K，构成散热器主体的多颗散热圆柱体呈平面矩阵式布置，可实现360度任意方向通风导热，从而极大的提升了散热性能，使防爆LED灯具在常温状态下长期稳定工作，从而有效减少LED灯珠使用过程的光衰，更能保证灯具品质。
3. 专利设计的多腔体结构，电源腔、光源腔和接线腔三腔体各自独立。
4. 灯具进线采用无线连接自主知识产权专利技术，使灯具的安装、使用和维护更加方便和更加安全。
5. 光源板采用多颗LED光源芯片集成，品牌可选用欧司朗或科瑞，单向发光，光线均匀柔和，光效≥120lm/w，显色性高，寿命长，绿色环保。
6. LED驱动装置可选用明纬或茂硕品牌，宽电压输入，具有恒流、开路保护、短路保护等功能。
7. 透镜高光效、雾化防眩光设计，发光角度大。
8. 高强度钢化玻璃透明罩，能承受4J能量冲击，抗热聚变，透光率高达90%。
9. 可配装应急控制装置，当供电电源断电时，自动切换到应急照明状态。
10. 先进的密封技术，确保在防护要求高，潮湿的环境长期运行。
11. 高功率因数 cosΦ≥0.95。
12. 高防腐性能的不锈钢外露紧固件。
13. 钢管、电缆布线均可。

1. The shell is made high-quality aluminum alloy die casting molding.It has the characteristics of smooth surface,fine internal structure, light structure and strong impact resistance.The stretched surface is electrostatically sprayed after high-speed shot blasting and the appearance is aesthetic.
2. Lamp source cavity shell of the lamp adopts the cold forging integrated radiator structure, the heat conductivity of about 209W/M.K,a radiator main body of many heat dissipation cylinder is planar matrix layout,can achieve 360 degrees in any direction of ventilation and heat conduction,thus grea-tly improve the heat dissipation performance,explosion-proof LED lamps at room temperature for a long time and stable work,so as to effectively reduce the LED lamp bead use process light decline,more can guarantee the lamp quality.
3. Use of borosilicate glass transparent cover or polycarbonate transparent cover, explosion-proof performance and electrical performance and reliable.
4. The lamp inlet line adopts wireless connection independent intellectual property patent technology, which makes the installation, use and maintenance of the lamp more convenient and safer.

5.Lamp source board is configure a number of international brand LED modules,and OSRAM or CREE can be selected,one-way light, light and even light,light effect 120 1m/w,high color render ing,long life,green and environmental protection.

6.LED drive device can be of Meanwell or Moso brand,wide voltage input,with constant current,open circuit protection,short circuit protection and other functions.

7.High luminous efficiency of lens、atomization anti-glare design,large luminescence Angle.

8.High strength tempered glass transparent cover,can withstand 4J energy impact,heat fusion,light transmittance up to 90%.

9.The emergency device can be equipped according,when the distribution power is cut off,the lamp will automatically switch to the emergency lighting state.

10.Advanced sealing technology ensures long-term operation in high-protection,humid environments.

11.High power factor cosΦ≥0.95.

12.Stainless steel exposed fasteners with high corrosion resistance.

13.Steel pipes and cable wiring are available.

■ 产品结构展示（以 50W 为例） Product structure display (take 50W as an example)



■ 产品细节（以 50W 为例）Product details (take 50W as an example)



出线套
Outlet sleeve



灯体
Lamp enclosure

专利无线连接装置，可实现灯体与出线套分开安装，在接线完成后，灯体再与出 线套螺纹连接，极大方便了现场安装与检修。

The patented wireless connection device can realize the separate installation of the lamp enclosure and the outlet sleeve. After the wiring is completed, the lamp enclosure is threaded with the outlet sleeve, which is very convenient for on-site installation and maintenance.



驱动电源腔内灌有导热胶，便于驱动电源散热，极大提升整体灯具寿命
The driving power supply cavity is filled with thermal conductive adhesive, which is convenient for heat dissipation of the driving power supply and greatly improves the service life of the overall lam

FCD(F、T、P)96系列防爆高效节能LED灯

FCD(F、T、P)96 series explosion-proof high efficiency and energy saving LED lamp



260条
20W/30W/40W/50W/60W

436 条
70W/80W/100W

668 条
120W/150W

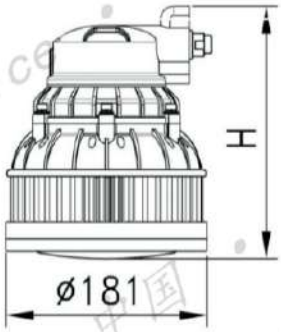
光源腔壳体背面拥有大量圆柱形散热筋，呈平面矩阵式布置，可实现360度任意方向通风导热，
且该壳体采用5000吨冷锻挤压工艺，密度更高，强度更好，热 传导率大于200W/M.K，
极大提升了灯具的散热性能，从而有效减少LED灯珠使用 过程的光衰，延长了灯具寿命。

There are a large number of cylindrical heat dissipation ribs on the back of the light source cavity shell,which are arranged in a plane matrix , which can realize 360° ventilation and heat conduction in any direction. Moreover, the shell adopts a 5000 ton cold forging and extrusion process, with higher density, better strength and thermal conductivity greater than 200W / m.k, which greatly improves the heat dissipation performance of the lamp, so as to effectively reduce the light attenuation during the use of LED beads.

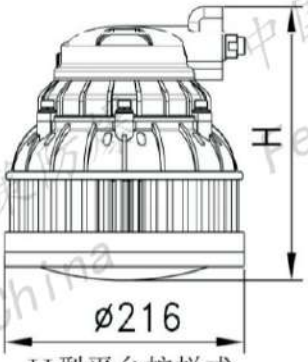


采用高强度钢化玻璃透明罩，LED灯珠板配置高效率PC透镜，进行二次配光，提升整体灯具的发光角度和光效。
It adopts high-strength tempered glass transparent cover, LED bulb plate is equipped with high-efficiency PC lens for secondary light distribution, so as to improve the luminous angle and light efficiency of the overall lamp.

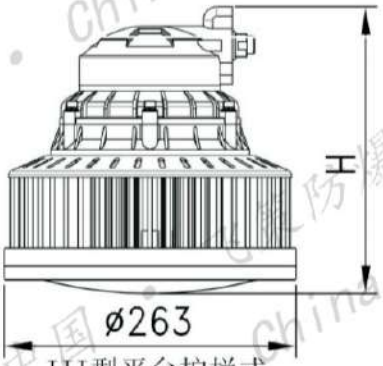
■ 产品外形尺寸 Product dimensions outline



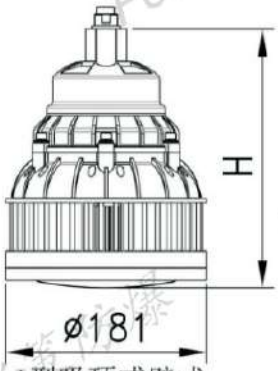
I型平台护栏式
Type I platform guardrail type



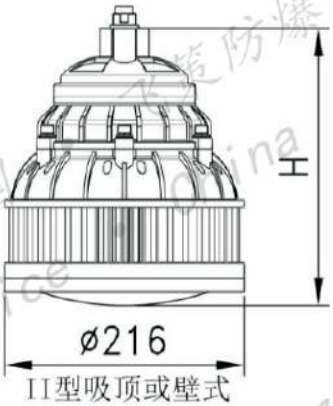
II型平台护栏式
Type II platform guardrail type



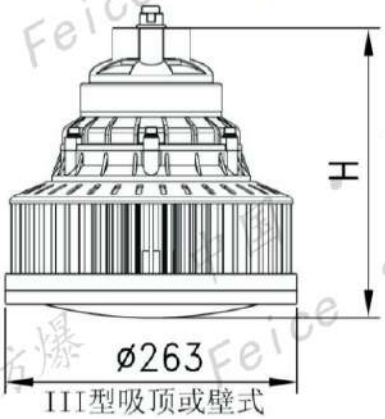
III型平台护栏式
Type III platform guardrail type



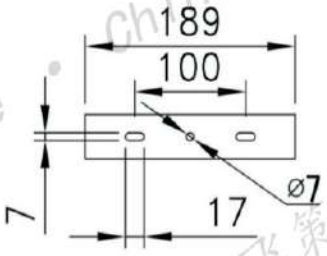
I型吸顶或壁式
Type I ceiling or wall type

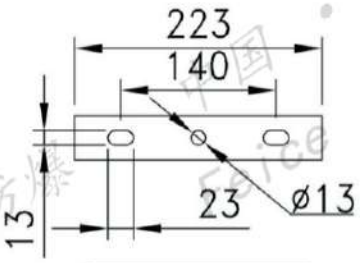


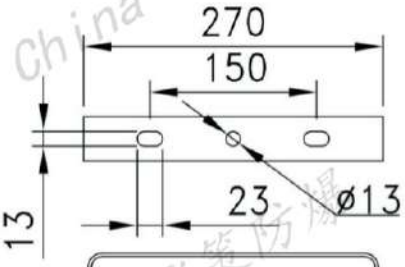
II型吸顶或壁式
Type II ceiling or wall type

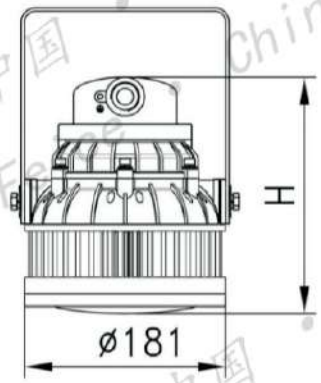


III型吸顶或壁式
Type III ceiling or wall type

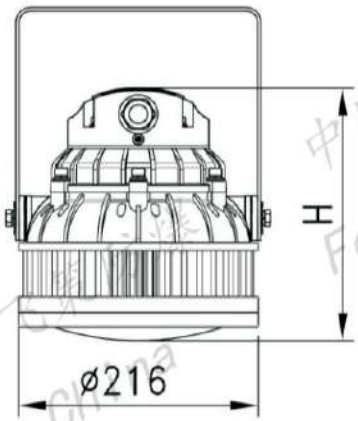




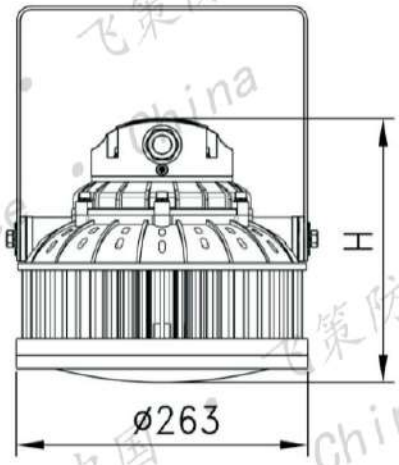




I型支架式
Type I stents type



II型支架式
Type II stents type



III型支架式
Type III stents type

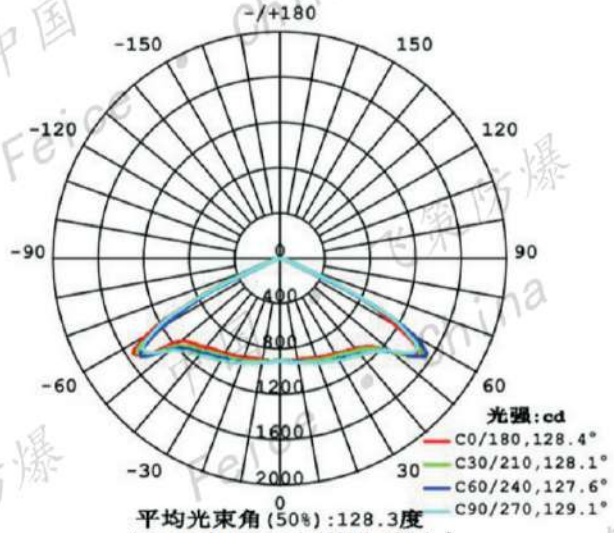
防爆高效节能灯具

FCD(F、T、P)96系列防爆高效节能LED灯

FCD(F、T、P)96 series explosion-proof high efficiency and energy saving LED lamp

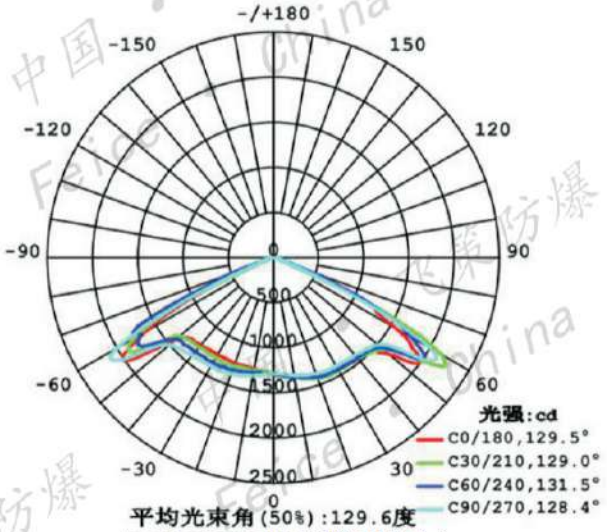
灯具类型 Lamp Type	壳体类型 Shell Type	额定功率(W) Rated Power	高度H（m） Height
平台式 Roof garden type	Ⅰ型	20、30	211
		40、50	227
		60	237
	Ⅱ型	70、80	237
		100	247
	Ⅲ型	120、150	258.5
吊杆式 Suspender type 吸顶式 Ceiling type 壁式 Wall type	Ⅰ型	20、30	216.5
		40、50	232.5
		60	242.5
	Ⅱ型	70、80	240
		100	250
	Ⅲ型	120、150	261.5
支架式 Stents type	Ⅰ型	20、30	198.5
		40、50	212.5
		60	222.5
	Ⅱ型	70、80	218
		100	228
	Ⅲ型	120、150	238

■ 配光曲线 Luminous distribution curve



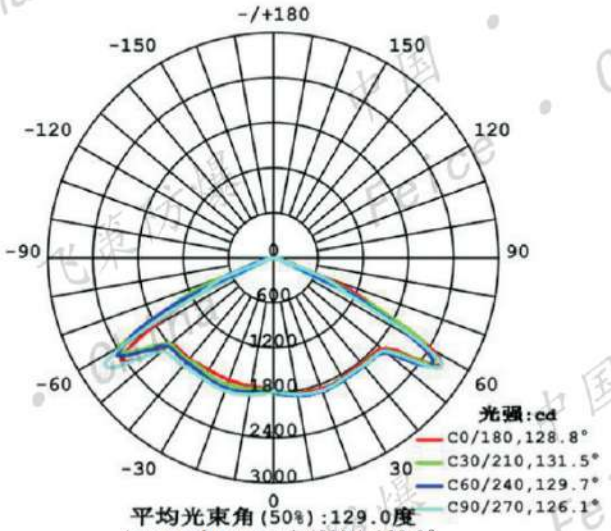
平均光束角(50%):128.3度
Average beam angle(50%):128.3 °

30W



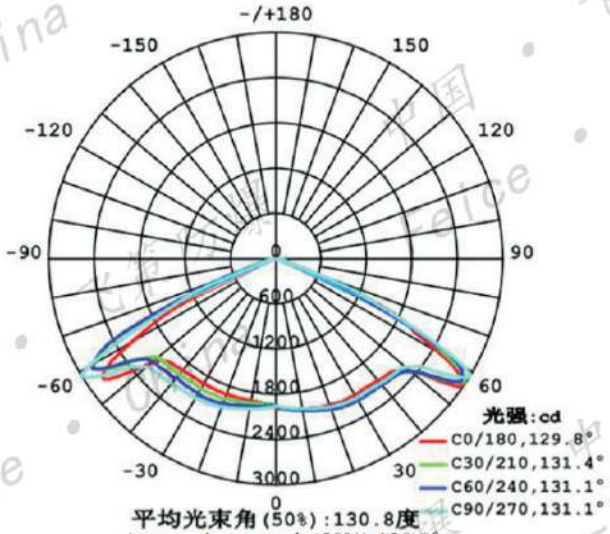
平均光束角(50%):129.6度
Average beam angle(50%):129.6 °

40W



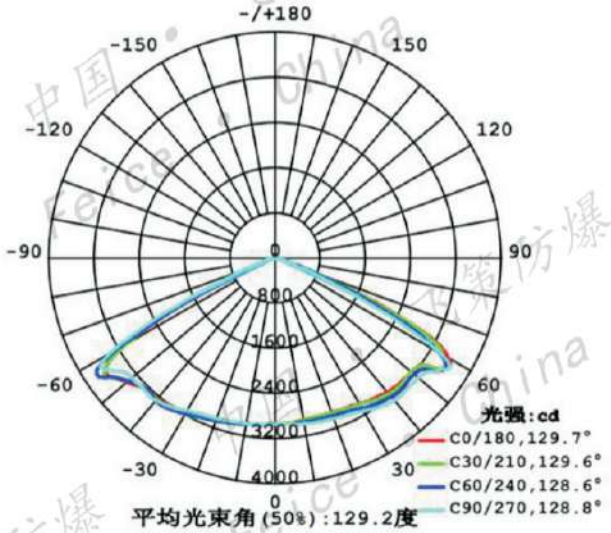
平均光束角(50%):129.0度
Average beam angle(50%):129.0°

50W



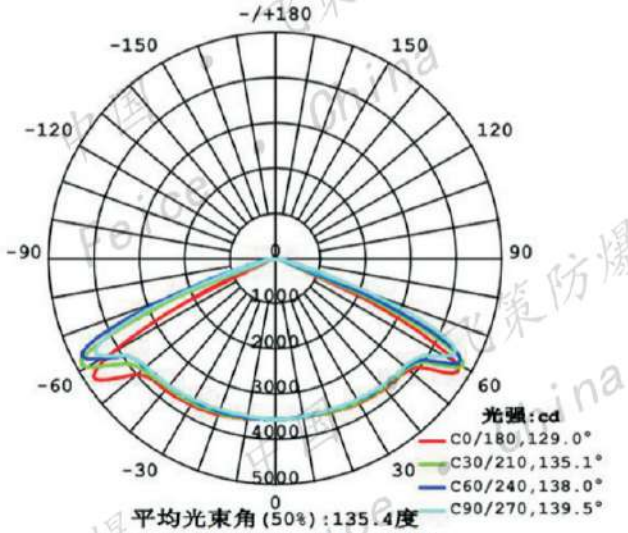
平均光束角(50%):130.8度
Average beam angle(50%):130.8°

60W



平均光束角(50%):129.2度
Average beam angle(50%):129.2°

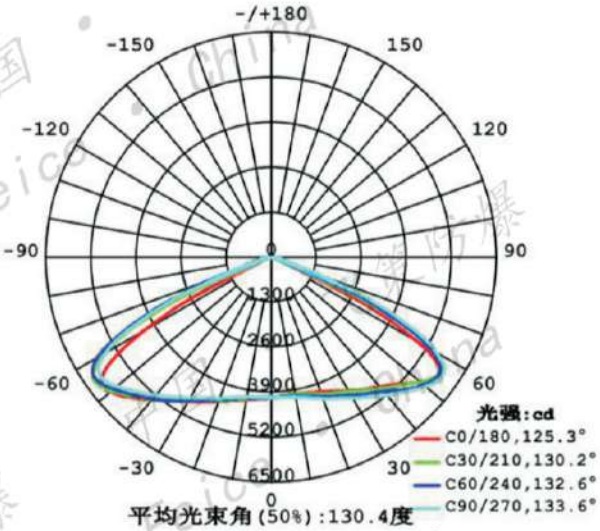
80W



平均光束角(50%):135.4度
Average beam angle(50%):135.4°

100W

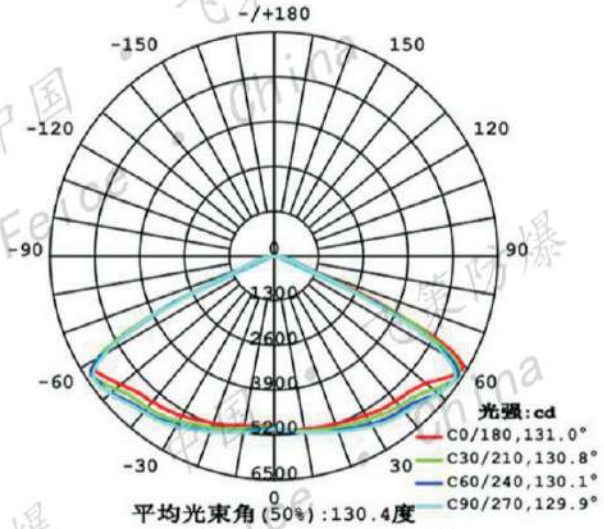
防爆高效节能灯具



平均光束角(50%):130.4度

Average beam angle(50%):130.4 °

120W



平均光束角(50%):130.4度

Average beam angle(50%):130.4 °

150W

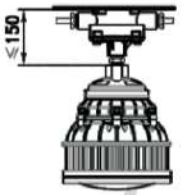
防爆高效节能灯具

■ 安装示意图 Installation diagram



Mounting hole position of junction box

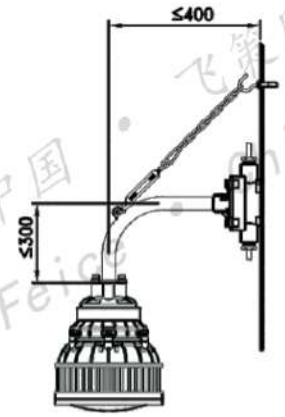
Mounting hole position of chandelier box



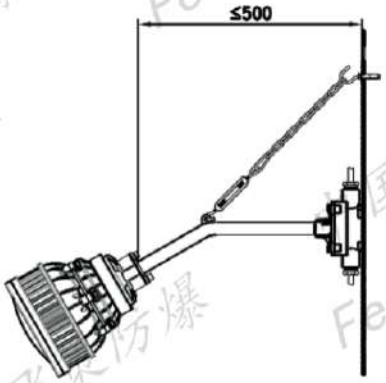
吸顶式/配接线盒
Ceiling type/ equipment junction box



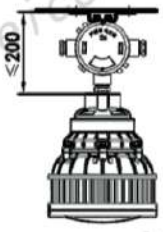
吊杆式/配接线盒
Suspender type/ equipment junction box



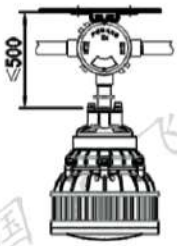
壁式90°/配接线盒
Wall type 90°/ equipment junction box



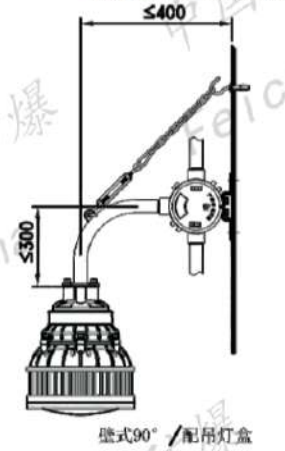
壁式30°/配接线盒
Wall type 30°/ equipment junction box



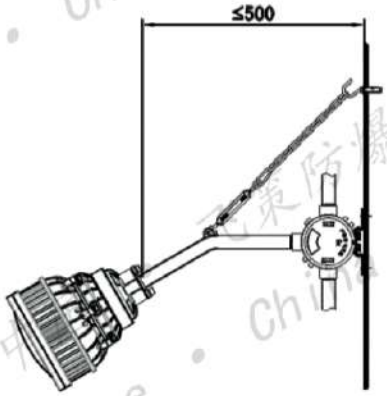
吸顶式/配吊灯盒
Ceiling type/ equipment chandelier box



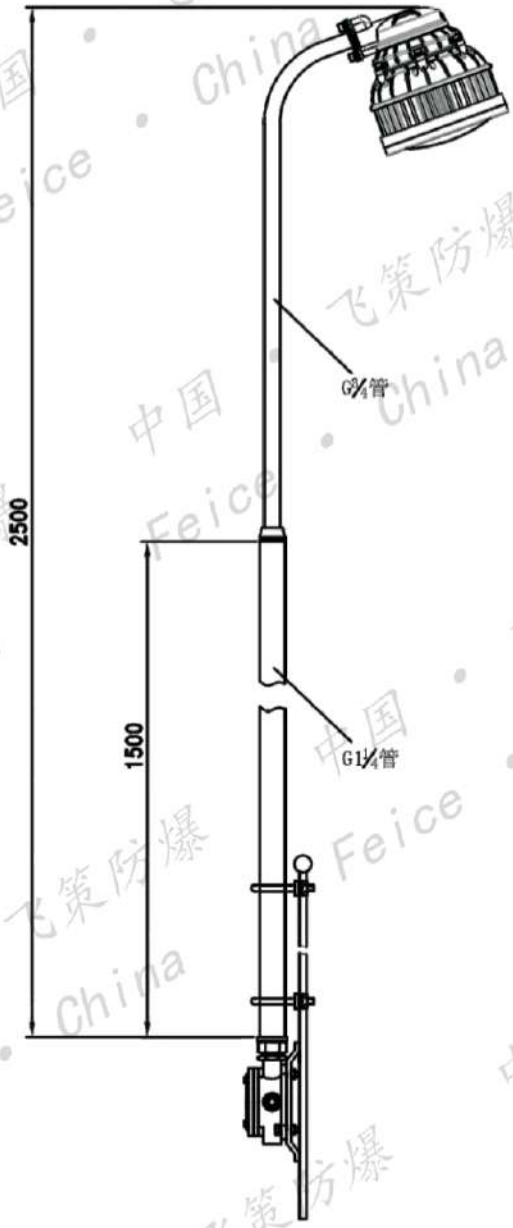
吊杆式/配吊灯盒
Suspender type/ equipment chandelier box



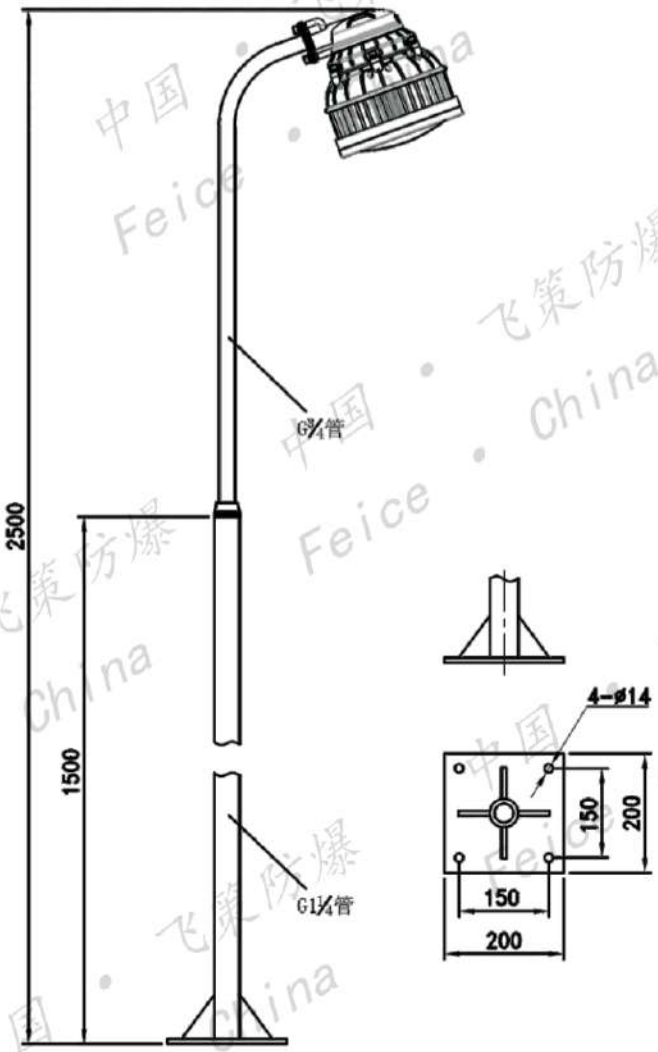
壁式90°/配吊灯盒
Wall type 90°/ equipment chandelier box



壁式30°/配吊灯盒
Wall type 30°/ equipment chandelier box



平台式（护栏式安装）
Roof garden type(Installation of guardrail)



平台式（法兰式安装）
Roof garden type(Installation of flange)

订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号-规格代码+防爆标志+订购数量”。例如需要隔爆型LED灯具60W，吊杆式安装配接线盒，数量20套，则产品型号规格为：型号：BAD63-规格：A60GH+Ex d ⅡC T6 Gb+20。
2. 选定安装形式及配件见P431~P440。
3. 如有特殊需求，需在订购时详细指明。

1. In accordance with the specifications of the meaning of the rules and regulations to choose one by one, and in the model specifications after the increase of explosion-proof mark. Concrete expression is: "product model - specification code + explosion-proof mark + order quantity". For example, the need for explosion-LED-type lighting 60W, with boom-mounted junction box, the number of 20 sets, the product model specifications: Model: BAD63- Specifications: A60GH + Ex d II C T6 Gb + 20.
2. Refer to pages P431~P440 for the selected mounting styles and accessories.
3. If you have special needs, you need to specify in detail at the time of ordering.

FCF98(T、L)系列防爆LED泛光（投光、路）灯
FCF98 (T、L) series explosion-proof flood (project-light、street) LED lamp



■ 型号规格含义 Model specifications implication

型号: FCF (T、L) 98 -□ /□ □

- 飞策防爆LED灯 Feice explosion proof lamp
- F-泛光灯 Flood lamp
- T-投光灯 Cast lamp
- L-路灯 Street lamp
- 设计序号 Design No
- 额定功率Rated power
- Z-支架式 Stents type
- M-路灯式 Street lamp type
- A-CREE 3535灯珠配明纬电源 CREE 3535 lamp beads with Meanwell power supply
- C-欧司朗 3030的灯珠配明纬电源 OSRAM 3030 lamp beads with Meanwell power supply
- D-CREE 5050灯珠配明纬电源 CREE 3030 lamp beads with Meanwell power supply

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于照明节能改造项目及检修更换困难的场所；
3. 适用于爆炸性气体环境的1区、2区；
4. 适用于ⅡA、ⅡB、ⅡC类爆炸性气体环境；
5. 适用于可燃性粉尘环境的21区、22区；
6. 适用于防护要求较高，潮湿的场所；
7. 适用于-50℃~+50℃环境。

1. Widely used in oil extraction, oil refining, chemical industry, military and other dangerous environment and offshore oil platforms, oil tankers and other places for common lighting and working lighting;
2. Suitable for lighting energy saving renovation project and the replacement of difficult places;
3. Suitable for explosive gas environment zone 1, zone 2;
4. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
5. Suitable for combustible dust environment in the area 22, 21;
6. Suitable for high protection requirements, damp places;
7. Suitable for environments from -50℃ to +50℃.

■ 执行标准 Accord with the standard for

GB3836. 1、GB3836. 2、GB12476. 1、GB12476. 5、GB7000.1。

FCF98(T、L)系列防爆LED泛光（投光、路）灯
FCF98 (T、L) series explosion-proof flood (project-light、street) LED lamp

FEICE 飞策

主要技术参数 Main technical parameters

额定功率(W) Rated power	额定电压(V) Rated voltage	配光特性 Light distribution characteristics	显色指数 Ra Color render index	光效 Luminance efficiency	安装方式 Installation
80/100/120	AC220 DC24*/ DC36*	泛光型 Flood type 投光型 Project-light type 路灯型 Street lamp type	≥80	≥120	路灯式 Street lamp type 支架式 Stents type
150/180					
200/240					
300/360					支架式 Stents type
400/480					

环境温度 Environment temperature	防爆标志 Ex-mark	防护等级 Degree of protection	防腐等级 Erosion-proofclass	电缆外径(mm) Cable outer dia.	进线口螺纹(G) Inlet thread
-50℃～+40℃	Ex d Ⅱ C T6 Gb Ex tD A21 IP66 T80℃	IP66	WF1 WF2*	Φ10～Φ14	3/4
-50℃～+50℃	Ex d Ⅱ C T5 Gb Ex tD A21 IP66 T95℃				

注：* 特殊要求请注明　Note: * Please specify special requirements

产品特点 Featrues

1. 外壳采用含镁和钛量不大于7.5%的高强度铝合金制成，具有良好的耐冲击能力，能承受不小于7J的冲击。
2. 高防腐性能的不锈钢外露紧固件。
3. 配置国际品牌的LED光源，单向发光，光线柔和，寿命长，绿色环保，采用LED透镜，进行二次配光技术，光束分配合理，照度均匀，反射效率、利用效率高。
4. 采用专利的无线连接端子，方便接线与维护。
5. 配置品牌LED驱动装置，宽电压输入，具有恒流、开路保护、短路保护、浪涌保护等功能。
6. 宽电压范围：90V～280VAC输入，启动迅速，亦不存在因气温低而导致难以启动问题。
7. 特制的铝基板导热结构紧贴光源腔体上，确保光源散发的热量完全传导到散热筋上。
8. 光源腔体外表面制作了大量的散热筋，大幅度提高壳体表面面积，借助空气流动有效地带走LED工作产生的热量，将LED工作节点温度控制在最佳范围，降低LED光衰，大幅延长LED的使用寿命。
9. 电源腔、光源腔和接线腔三腔各自独立，有效保证光源腔的热量不会传导到电源腔；壳体外表面静电喷涂。
10. 采用高硼硅钢化玻璃透明罩，可承受4J高能量冲击，耐热，抗热聚变，透光率高达90%以上。
11. 电磁和紫外线辐射小，能为长时间在室内外工作的用户提供优质照明与健康保障。

1. The shell is made of high-strength aluminum alloy containing less than 7.5% magnesium and titanium, which has good impact resistance and can withstand the impact of not less than 7J.
2. Stainless steel exposed fasteners with high corrosion resistance.
3. Equipped with international brand LED light source, one-way light, soft light, long life, green environmental protection, LED lens, secondary light distribution technology, reasonable beam distribution, uniform illumination, high reflection efficiency, high utilization efficiency.
4. The patented wireless connection terminal is convenient for wiring and maintenance.
5. Equipped with brand LED driver, wide voltage input, with constant current, open circuit protection, short circuit protection, surge protection and other functions.
6. Wide voltage range: 90V～280VAC input, quick start, there is no problem caused by low temperature and difficult to start.
7. The special aluminum substrate thermal conductivity structure is close to the light source cavity to ensure that the heat emitted by the light source is fully transmitted to the heat dissipation rib.
8. A large number of heat dissipation bars are made on the external surface of the light source cavity to greatly improve the surface area of the shell. With the help of air flow, the heat generated by THE LED work can be effectively taken away, the temperature of the LED work node can be controlled in the best range, and the LED light decline can be reduced, and the service life of the LED can be greatly extended.
9. The power cavity, the light source cavity and the connection cavity are independent of each other to effectively ensure that the heat of the light source cavity will not be transmitted to the power cavity; Electrostatic spraying on the outer surface of the shell.
10. Adopt high boron silicon steel glass transparent cover, can withstand 4J high energy impact, heat resistance, thermal fusion resistance, light transmittance up to more than 90%.
11. Low electromagnetic and ultraviolet radiation can provide high quality lighting and health protection for users who work indoors and outdoors for a long time.

FCF98(T、L)系列防爆LED泛光（投光、路）灯
FCF98 (T、L) series explosion-proof flood (project-light、street) LED lamp

■ 产品结构展示 Product structure display



FCF98(T、L)系列防爆LED泛光（投光、路）灯

FCF98 (T、L) series explosion-proof flood (project-light、street) LED lamp



■ 产品细节 Product details



支架式
Stents type



路灯式
Street lamp type

专利无线连接装置，可实现灯体与出线套分开安装，在接线完成后，灯体再与出 线套螺纹连接，极大方便了现场安装与检修。

The patented wireless connection device can realize the separate installation of the lamp enclosure and the outlet sleeve. After the wiring is completed, the lamp enclosure is threaded with the outlet sleeve, which is very convenient for on-site installation and maintenance.

防爆高效节能灯具

FCF98(T、L)系列防爆LED泛光（投光、路）灯
FCF98 (T、L) series explosion-proof flood (project-light、street) LED lamp



支架式
Stents type



路灯式
Street lamp type

驱动电源腔内灌有导热胶，便于驱动电源散热，极大提升整体灯具寿命
The driving power supply cavity is filled with thermal conductive adhesive, which is convenient for heat dissipation of the driving power supply and greatly improves the service life of the overall lam



485条
70W/80W/100W



761条
120W/150W/180W



1029条
200W/240W/300W

光源腔壳体背面拥有大量圆柱形散热筋，呈平面矩阵式布置，可实现360度任意方向通风导热，
且该壳体采用5000吨冷锻挤压工艺，密度更高，强度更好，热 传导率大于200W/M.K，
极大提升了灯具的散热性能，从而有效减少LED灯珠使用 过程的光衰，延长了灯具寿命。
There are a large number of cylindrical heat dissipation ribs on the back of the light source cavity shell,which are arranged in a plane matrix , which can realize 360° ventilation and heat conduction in any direction. Moreover, the shell adopts a 5000 ton cold forging and extrusion process, with higher density, better strength and thermal conductivity greater than 200W / m.k, which greatly improves the heat dissipation performance of the lamp, so as to effectively reduce the light attenuation during the use of LED beads.

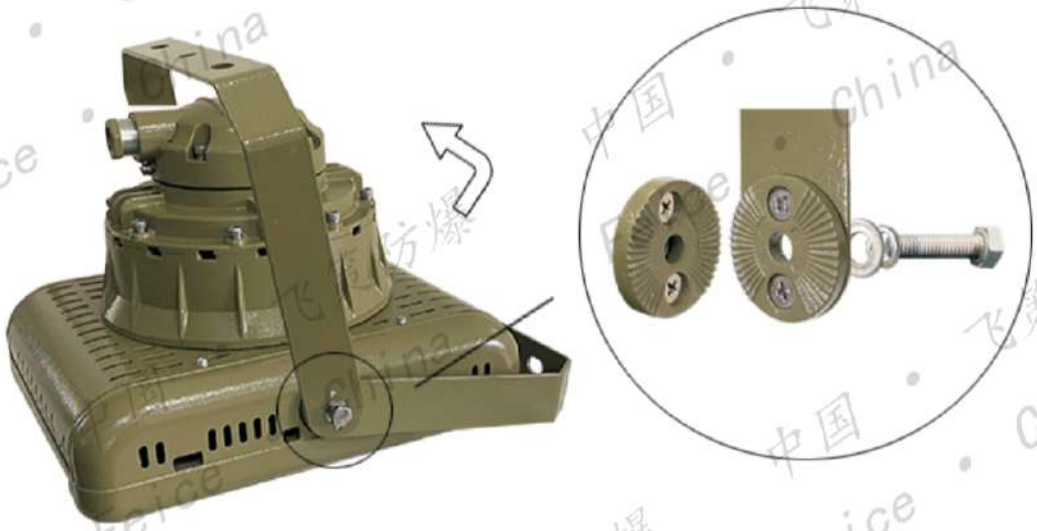


支架式
Stents type



路灯式
Street lamp type

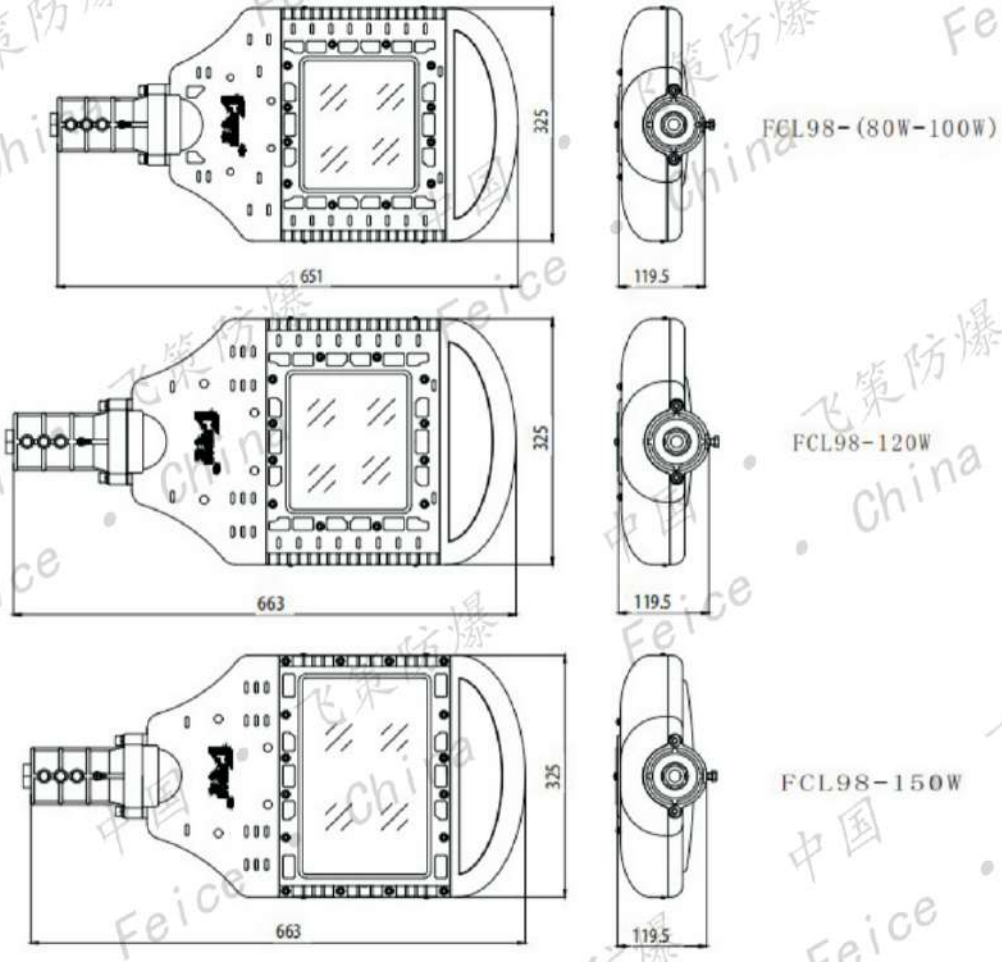
采用高强度钢化玻璃透明罩，LED灯珠板配置高效率PC透镜，进行二次配光，
提升整体灯具的发光角度和光效。
It adopts high-strength tempered glass transparent cover, LED bulb plate is equipped with high-efficiency PC lens for secondary light distribution, so as to improve the luminous angle and light efficiency of the overall lamp.

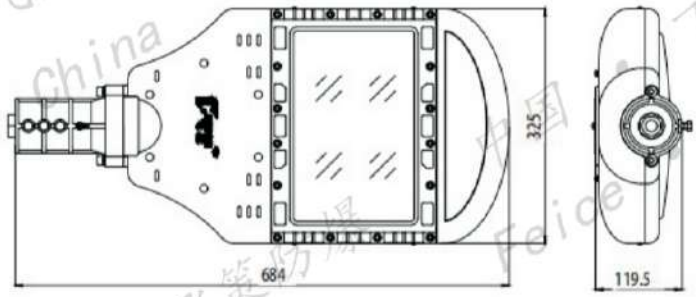


支架式:特制的支架式安装方式，可实现270度方向安装，紧固后牢固可靠
Stents type: The special bracket installation mode can realize the installation in the direction of 270 degrees, which is firm and reliable after fastening.

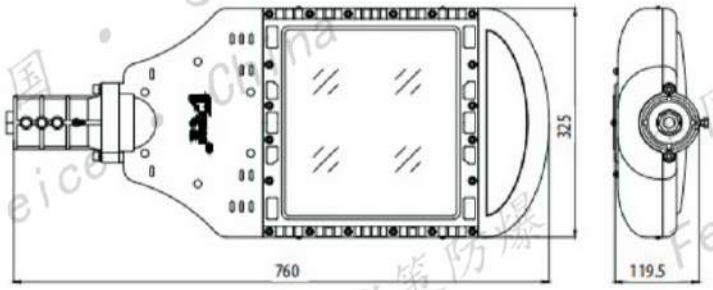
产品外形尺寸 Product dimensions outline

1.路灯式 Street lamp type



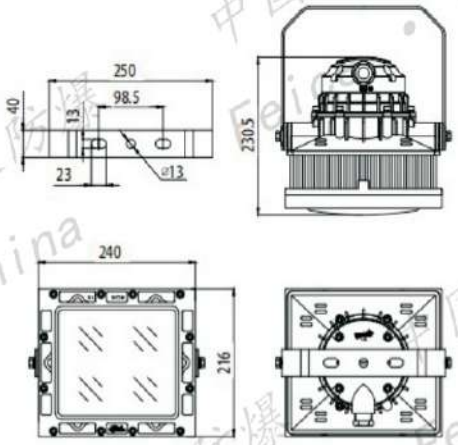


FCL98-180W

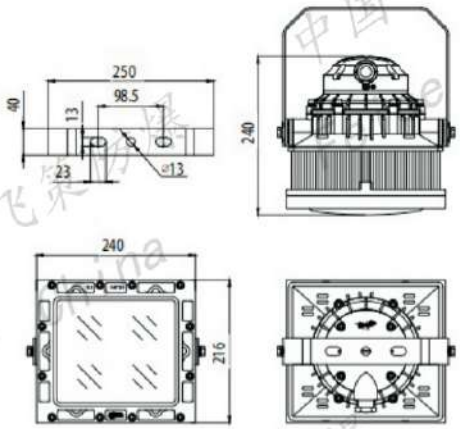


FCL98-(200W-240W)

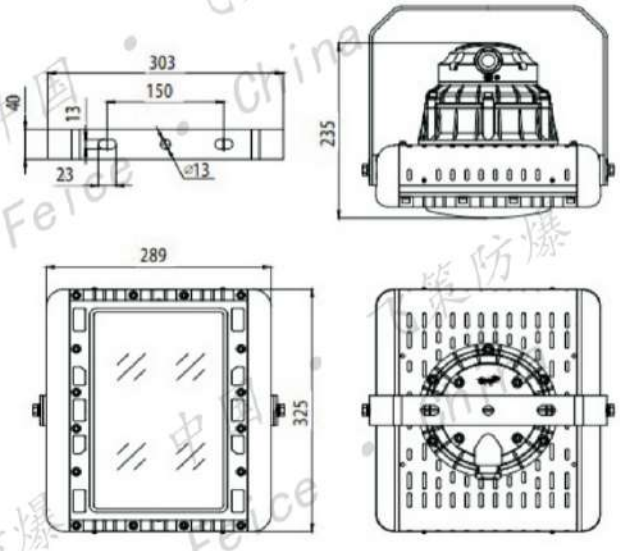
2.支架式 Stents type



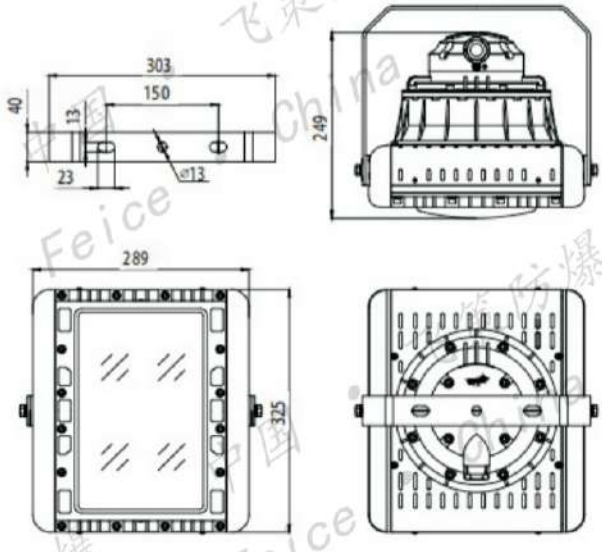
FCF98-(80W-100W)



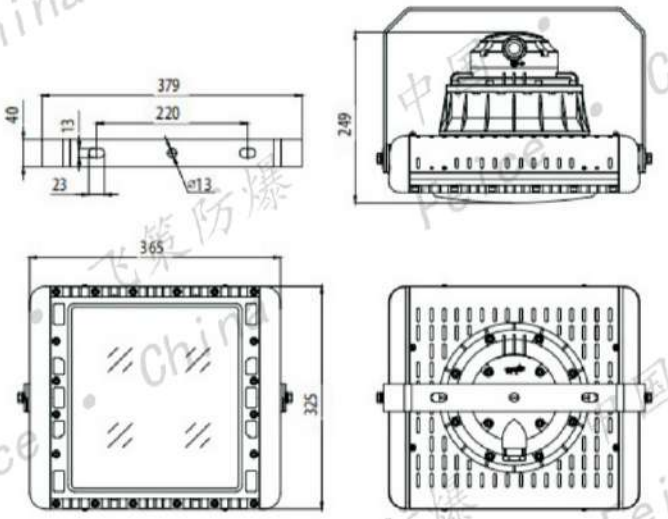
FCF98-120W



FCF(T)98-150W



FCF(T)98-180W



FCF(T)98-(200W-240W)

BAD63-A系列防爆高效节能LED灯(平台灯)

BAD63-A series explosion-proof high-efficiency energy-saving LED lamp (platform light)



型号规格含义 Model specifications implication

型号 :B AD 63 A 规格:□ □ □

- 防爆 Explosion proof
- 灯具类 Lamps
- 设计序号 Design Number
- 多颗LED Multiple LED
- 安装方式：P□ ①-平台式
- 安装方式：L□ ②-路灯式
- 灯头类型：R-平台灯
- 额定功率 Rated Power

适用范围 Applications

1. 广用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所 普通照明及作业照明之用；
2. 适用于照明节能改造项目及检修更换困难的场所；
3. 适用于爆炸性气体环境的 1 区、 2 区；
4. 适用于Ⅱ A 、Ⅱ B 、Ⅱ C 类爆炸性气体环境；
5. 适用于可燃性粉尘环境的 21 区、 22 区；
6. 适用于防护要求较高，潮湿的场所；
7. 适用于— 40 ℃以上低温环境。

1. Widely used in hazardous environments such as oil exploration, refining, chemical, military and Offshore oil platforms, oil tankers, etc. General lighting and work lighting use;
2. Applicable to lighting energy-saving renovation projects and places where maintenance and replacement is difficult;
3. Applicable to Zone 1 and Zone 2 of explosive gas environment;
4. Applicable to IIA, IIB, IIC explosive gas environment;
5. Applicable to areas 21 and 22 of flammable dust environment;
6. Applicable to places with high protection requirements and humidity;
7. Suitable for low temperature environments above -40 °C.

主要技术参数 Main technical parameters

执行标准 Executive standard	GB3836.1 、 GB3836.2 、 GB3836.9 、 GB12476.1 、 GB12476.5
防爆标志 Explosion-proof mark	Ex d IIC T6 Gb, Ex d mb IIC T6 Gb, Ex tD A21 IP66 T80 ℃
额定电压 Rated voltage	AC220V 、 DC24V 、 DC36V
额定功率 Rated Power	Ⅰ型： 20W 、 30W 、 40W 、 50W ，Ⅱ型： 60W 、 70W 、 80W
防护等级 Protection Level	IP65 、 IP66
防腐等级 Anti-corrosion Grade	WF2
引入装置 Introduction Device	G3/4"
适用电缆外径 Applicable Cable Outer Diameter	Φ 10 ～Φ 14mm
安装方式 Installation Method	平台式 Platform type

BAD63-A系列防爆高效节能LED灯(平台灯)

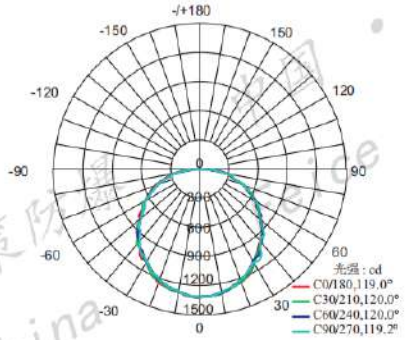
BAD63-A series explosion-proof high-efficiency energy-saving LED lamp (platform light)

产品结构及特点 Featrues

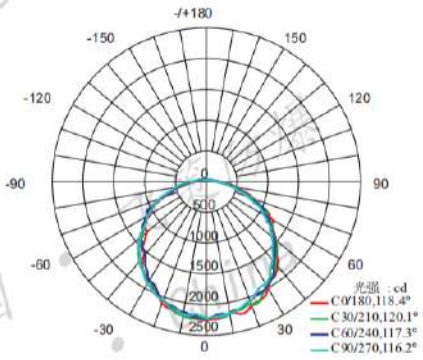
1. 铝合金压铸壳体，表面静电喷塑，外形美观。
2. 专利设计的多腔体结构，电源腔、光源腔和接线腔三腔体各自独立。
3. 采用高硼硅钢化玻璃透明罩，透明罩雾化防眩光设计，能承受高能量冲击，抗热 聚变，透光率高达 90% 。
4. 高防腐性能的不锈钢外露紧固件。
5. 先进的驱动电源技术，宽电压输入，具有恒流、开路保护、短路保护、浪涌保护、等功能。
6. 配置多颗国际品牌 LED 模块，先进的配光技术，光线均匀柔和，光效≥ 120lm/w ， 显色性高，寿命长，绿色环保。
7. 具有空气导流结构的散热导风槽，能确保 LED 光源的使用寿命。

1. Aluminum alloy die-casting shell, the surface is electrostatically sprayed, and the appearance is beautiful.
2. Patented multi-cavity structure, power cavity, light source cavity and wiring cavity The bodies are independent.
3. Adopt high borosilicate tempered glass transparent cover, transparent cover atomization anti-glare design,It can withstand high energy impact, heat fusion, and light transmittance up to 90%.
4. Stainless steel exposed fasteners with high corrosion resistance.
5. Advanced drive power technology, wide voltage input, with constant current, open circuit protection
   Protection, short circuit protection, surge protection, and other functions.
6. Configure multiple international brand LED modules, advanced light distribution technology, light Uniform and soft, light effect ≥120lm/w, high color rendering, long life, green Environmentally friendly.
7. Heat-dissipating air duct with air guiding structure to ensure the LED light source Life expectancy.

配光曲线 Luminous distribution curve

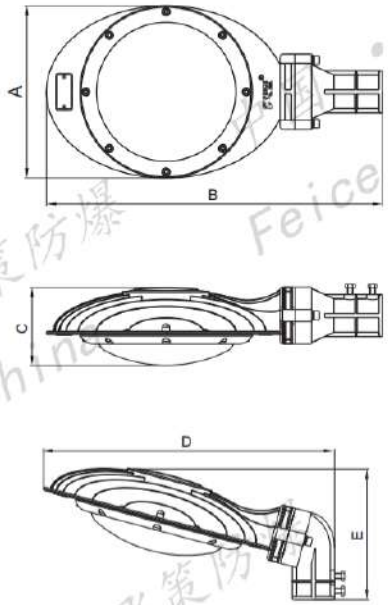


I 型 Type



II 型 Type

外形及安装尺寸 Outline & Installation dimensions



	A	B	C	D	E
I 型 Type	210	433	115	369	184
II 型 Type	258	502	117	435	196

订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号 - 规格代码 + 防爆标志 + 订购数量”。例如需要隔爆浇封型平台灯 30W ，数量 20 套，则订货为：“型号 :BAD63- 规格 :A30P+Ex d mb Ⅱ C T6Gb+20 ”。
2. 选定安装形式及配件见灯具选型手册中 P431~P440 。
3. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of the model specifications, and add the explosion-proof mark after the meaning of the model specification. The specific embodiment is: "product model - specification code + explosion-proof mark + order quantity". For example, if the explosion-proof potted platform lamp 30W is required and the number is 20 sets, the order is: "Model: BAD63- Specification: A30P+Ex d mbIIC T6 Gb+20".
2. For the selected installation form and accessories, see P431~P440 in the Lamp Selection Manual.
3. If there are special needs, please specify in the order.

FCD96-系列防爆高效LED灯(吸顶灯)

FCD96- series explosion-proof high efficiency LED lamp (ceiling lamp)



型号规格含义 Model specifications implication

型号: FCD 96 -□ /□ M

- 灯头类型 Base Type
  - 吸顶灯 Ceiling lamp
  - A-CREE 3535灯珠配明纬电源 CREE 3535 lamp beads with Meanwell power supply
  - B-欧司朗 3030灯珠配茂硕电源 OSRAM 3030 lamp beads with Moso power supply
  - C-欧司朗 3030灯珠配明纬电源 OSRAM 3030 lamp beads with Meanwell power supply
  - D-CREE 5050灯珠配明纬电源 CREE 3030 lamp beads with Meanwell power supply
- 额定功率 Rated power
- 设计序号 Design No
- 防爆高效LED灯 Explosion-proof high efficiency LED lamp

适用范围 Applications

1. 海拔高度不超过2000m;
2. 周围空气相对湿度不大于95%（+25℃）;
3. 在含有ⅡA、ⅡB、ⅡC类，温度组别为T1~T6的爆炸性气体环境（1区、2区），或可燃性粉尘环境（21区、22区），或上述两类介质同时存在的环境中;
4. 在无剧烈摇动和冲击振动的场所;
5. 无破坏绝缘的环境中;
6. 环境条件的污染等级：3级;
7. 安装类别：Ⅱ类。

1. The altitude shall not exceed 2000m;
2. The relative humidity of the surrounding air shall not be greater than 95% (+ 25 ℃);
3. In explosive gas environment (zone 1 and zone 2) containing IIA, IIB and IIC and temperature group T1 ~ T6, or combustible dust environment (zone 21 and zone 22), or in the environment where the above two types of media exist at the same time;
4. In places without violent shaking and shock vibration;
5. In the environment without damaging insulation;
6. Pollution level of environmental conditions: Level 3;
7. Installation category: Class II.

执行标准 Accord with the standard for

GB3836. 1、GB3836. 2、GB12476. 1、GB12476. 5、GB 7000.1。

FCD96-系列防爆高效LED灯(吸顶灯)

FCD96- series explosion-proof high efficiency LED lamp (ceiling lamp)

FEICE 飞策

■ 主要技术参数 Main technical parameters

额定电压 Rated voltage	防爆标志 Ex-mark	额定功率 Rated power	防腐等级 Anti corrosion grade	防护等级 Degree of protection	进线电缆外径范围 Outer diameter range of incoming cable	进线口螺纹 Inlet thread
AC220V	Ex d IIC T6 Gb Ex tD A21 IP66 T80℃	20W、30W、40W、50W、60W	WF2	IP66	Φ10~Φ14mm	G3/4

■ 产品特点 Featrues

1. 外壳采用含镁和钛量不大于7.5%的高强度铝合金制成,具有良好的耐冲击能力，能承受不小于7J的冲击,外表面高压静电喷塑。
2. 高防腐性能的不锈钢外露紧固件。
3. 配置国际品牌的LED光源，采用LED透镜进行二次配光技术，光线柔和，发光角度大，光效高、显色性高、寿命长，绿色环保，且配光合理、照度均匀；光效>100lm/W，显色性高，Ra>80。
4. 采用高硼硅钢化玻璃透明罩,抗高能量冲击,抗热聚变,透光率高达90%。
5. 配置品牌驱动装置，宽电压输入，具有恒流、开路保护、短路保护、浪涌保护等功能。
6. 宽电压范围：90V~264VAC输入，启动迅速，亦不存在因气温低而导致难以启动问题。
7. 光源腔体采用高散热的铝合金材质挤压成型，光源电路铝基板紧贴铝合金壳体，光源的热量通过铝合金壳体迅速传导到壳体表面；外表面制作了大量的散热柱，大幅度提高壳体表面面积，借助空气流动有效地带走LED工作产生的热量，将LED工作节点温度控制在最佳范围，降低LED光衰，大幅延长LED的使用寿命。
8. 低损耗、高效率：整体灯效高达85%以上，功率因素达到0.95以上. 输入频率范围为47~63Hz。
9. 本系列灯具属于免维护产品，节能环保。
10. 钢管、电缆布线均可。

1. The shell is made of high-strength aluminum alloy with magnesium and titanium content of no more than 7.5%, which has good impact resistance, can withstand impact of no less than 7J, and high-voltage electrostatic plastic spraying on the outer surface.
2. Exposed stainless steel fasteners with high anti-corrosion performance.
3. Equipped with international brand LED light source, LED lens is used for secondary light distribution technology, with soft light, large luminous angle, high light efficiency, high color rendering, long service life, green environmental protection, reasonable light distribution and uniform illumination; Light efficiency > 100lm / W, high color rendering, RA > 80.
4. High borosilicate tempered glass transparent cover is adopted to resist high-energy impact and thermal fusion, and the light transmittance is up to 90%.
5. Equipped with brand driving device, wide voltage input, with constant current, open circuit protection, short circuit protection, surge protection and other functions.
6. Wide voltage range: 90V ~ 264VAC input, rapid startup, and there is no problem that it is difficult to start due to low temperature.
7. The light source cavity is made of aluminum alloy with high heat dissipation, the aluminum substrate of the light source circuit is close to the aluminum alloy shell, and the heat of the light source is quickly transmitted to the shell surface through the aluminum alloy shell; A large number of heat dissipation columns are made on the outer surface to greatly improve the surface area of the shell, effectively take away the heat generated by LED work with the help of air flow, control the temperature of LED working node in the best range, reduce LED light attenuation and greatly prolong the service life of LED.
8. Low loss and high efficiency: the overall lamp efficiency is more than 85%, and the power factor is more than 0.95 The input frequency range is 47 ~ 63Hz.
9. This series of lamps are maintenance free products, energy saving and environmental protection.
10. Steel pipe and cable wiring are acceptable.

FCD96-系列防爆高效LED灯(吸顶灯)

FCD96- series explosion-proof high efficiency LED lamp (ceiling lamp)

■ 产品结构展示（以 50W 为例） Product structure display (take 50W as an example)



■ 使用与维护 Use and maintenance

1. 应避免承受不适当的外力，以免影响其正常性能；
2. 使用前内外接地应可靠连接；
3. 安装、维护或检修前需切断前级电源，安装时接好线后将密封圈压紧，若发现密封圈老化或损坏应及时更换，开启灯具时需保护好隔爆接合面，并涂防锈油，完毕后旋紧各螺纹连接件和紧固件。因螺纹连接件和紧固件未紧牢固以及其它人为不按规范安装的行为引起腔内进水而损坏灯具，本公司不承担保修责任。

1. Avoid bearing inappropriate external force to avoid affecting its normal performance;
2. Internal and external grounding shall be reliably connected before use;
3. Before installation, maintenance or overhaul, the front power supply shall be cut off. During installation, the sealing ring shall be tightly pressed after connecting the wire. If the sealing ring is aging or damaged, it shall be replaced in time. When turning on the lamp, the flameproof joint surface shall be protected and coated with antirust oil. After that, tighten all threaded connectors and fasteners. The company shall not be liable for warranty if the lamps are damaged due to water ingress in the cavity due to the loose fastening of threaded connectors and fasteners and other people's failure to install in accordance with the specifications.

常见故障与排除 Common faults and troubleshooting

1. 检查电源是否进入灯具及电源电压是否符合要求；
2. 检查接线是否牢固，有无虚接等；
3. 检查密封是否良好，密封圈是否压紧、老化、损坏等；
4. 灯具是否进水，密封是否良好等。

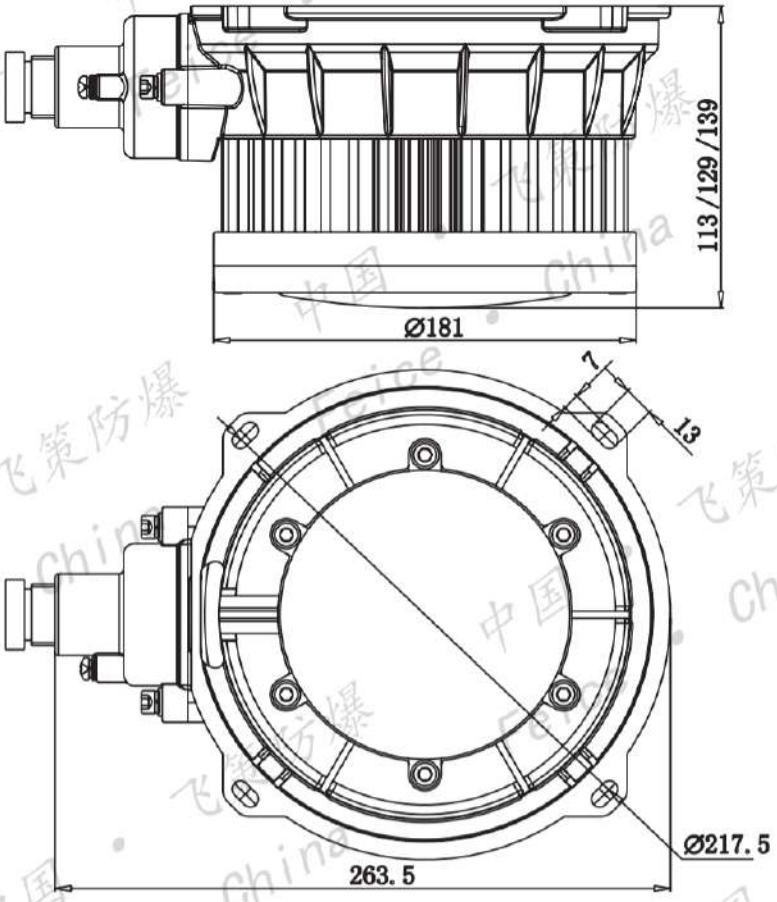
1. Check whether the power supply enters the lamp and whether the power supply voltage meets the requirements;
2. Check whether the wiring is firm and whether there is virtual connection, etc;
3. Check whether the seal is in good condition and whether the seal ring is compressed, aged and damaged;
4. Whether the lamps have water ingress and good sealing, etc.

订货须知 Ordering instructions

1. 按照型号规格含义中的规则逐条进行选择，并在型号含义后增加防爆标志和订购数量。具体体现为：“产品型号－规格代码＋防爆标志＋订购数量”。
2. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of model and specification, and add explosion-proof signs and ordering quantity after the meaning of model. Specifically, "product model - specification code + explosion-proof sign + order quantity".
2. If there are special needs, it shall be specified in detail when ordering.

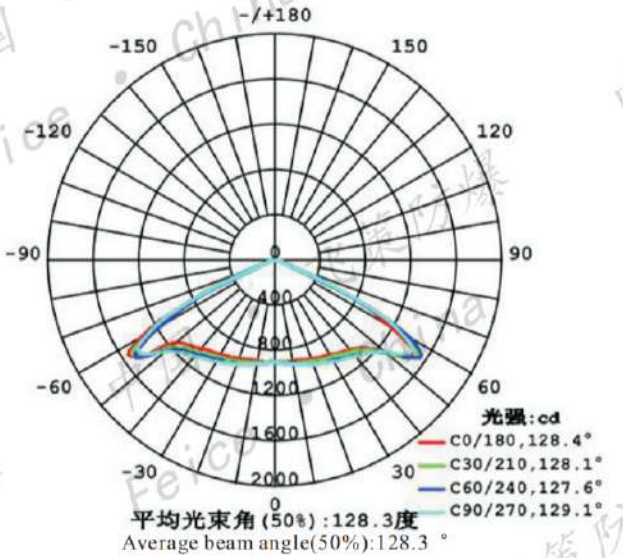
外形尺寸 Overall dimension



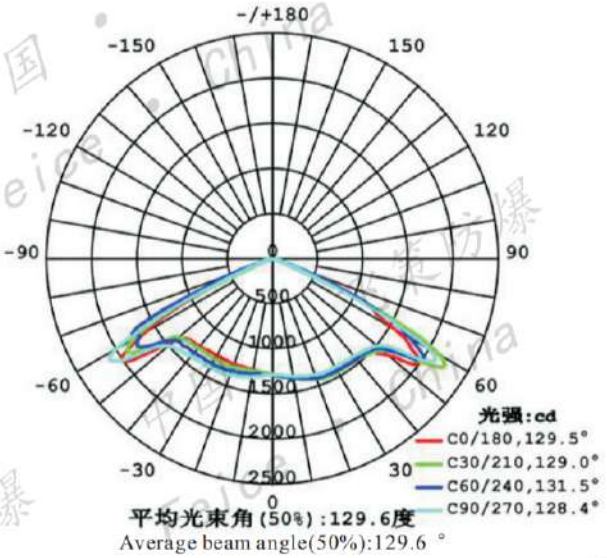
20W/30W时总高113；40W/50W时总高129；60W时总高139

Total height 113 at 20W/30W; Total height of 129 at 40W/50W; Total height 139 at 60W

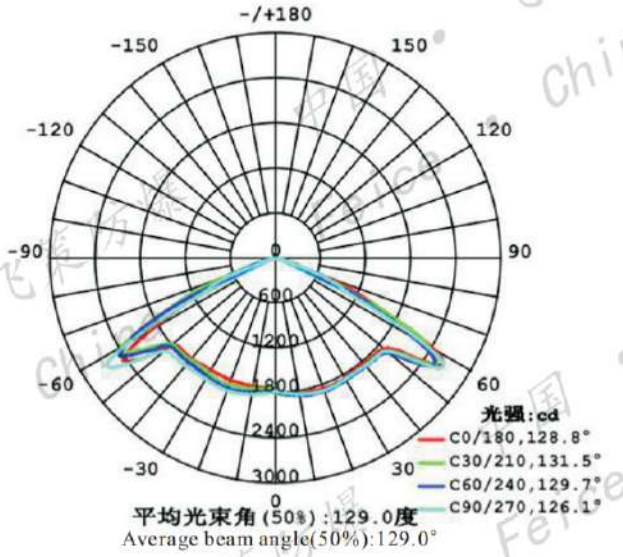
■配光曲线 Luminous distribution curve



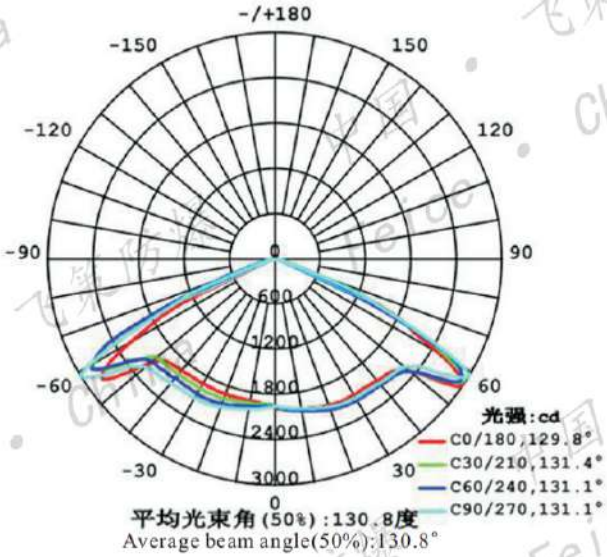
平均光束角(50%):128.3度
Average beam angle(50%):128.3 °



平均光束角(50%):129.6度
Average beam angle(50%):129.6 °



平均光束角(50%):129.0度
Average beam angle(50%):129.0°



平均光束角(50%):130.8度
Average beam angle(50%):130.8°

BAD63-A系列防爆高效节能LED灯

BAD63-A series explosion-proof high efficiency and energy saving LED lamp



型号规格含义 Model specifications implication

型号:BAD 63-A 规格:□ □ □ □

- 防爆Explosion-proof
- 灯具类Lamp
- 设计序号 Design No
- 多颗LED Multiple LED
- 额定功率Rated power
- 光源与电源配置类型:A、B、C
  Light source and power configuration type: A, B, C
- H-配接线盒 With terminal block
- G-吊杆式③ Suspender type
- X-吸顶式③ Ceiling type
- B-支架式 Stents type
- B1-壁式安装30° Wall type30°
- B2-壁式安装90° Wall type90°
- P□ ①-平台式 Roof garden type
- L□ ②- 路灯式 Street style

①:代表安装型式，分别有：A型、B型、C型、D型、E型、H型。
②:代表安装型式，分别有：A型、B型、C型、D型。
③:IV型、V型不含吊杆式。
①: Stands ofr installation forms code, there were respectively: A Type, B Type, C Type, D Type, E Type, H Type.
②:Stands ofr installation forms code, there were respectively: A Type, B Type, C Type, D Type.
③: IV-type, V-type does not contain boom .

适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于照明节能改造项目及检修更换困难的场所；
3. 适用于爆炸性气体环境的1区、2区；
4. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
5. 适用于可燃性粉尘环境的21区、22区；
6. 适用于防护要求较高，潮湿的场所；
7. 适用于-40℃以上低温环境。

1. widely used in oil extraction, oil refining, chemical industry, military and other dangerous environment and offshore oil platforms, oil tankers and other places for common lighting and working lighting.
2. Suitable for lighting energy saving renovation project and the replacement of difficult places;
3. Suitable for explosive gas environment zone 1, zone 2;
4. Explosive atmosphere: class ⅡA, ⅡB, ⅡC
5. Suitable for combustible dust environment in the area 22, 21;
6. Suitable for high protection requirements, damp places;
7. Suitable for low temperature environment above -40℃.

执行标准

GB3836. 1、GB3836. 2、GB12476. 1、GB12476. 5、IEC60079. 0、IEC60079. 1、IEC61241-0、IEC61241-1。

BAD63-A系列防爆高效节能LED灯

BAD63-A series explosion-proof high efficiency and energy saving LED lamp

FEICE 飞策

主要技术参数 Main technical parameters

型号规格 Type specifications	额定电压(V) Rated voltage	额定功率(W) Rated Power	壳体类型 Shell Type	配光特性 Light distribution characteristic	防爆标志 Ex-mark	防护等级 Degree of protection	防腐等级 Erosion-proof -class	电缆外径(mm) Cable outer dia.	进线口螺纹(G) Inlet thread
BAD63-A20□ □	AC220 DC36*	20	I	泛光 floodlight	Ex d ⅡB/ⅡC T6 Gb Ex d mb ⅡB/ⅡC T6 Gb Ex tD A21 IP66 T80℃	IP65 IP66*	WF1 WF2*	Φ10～Φ14	3/4
BAD63-A25□ □		25	I	泛光 floodlight					
BAD63-A30□ □		30	I	泛光 floodlight					
BAD63-A35□ □		35	I	泛光 floodlight					
BAD63-A40□ □		40	I	泛光 floodlight					
BAD63-A45□ □		45	I	泛光 floodlight					
BAD63-A50□ □		50	I	泛光 floodlight					
BAD63-A60□ □		60	II	泛光 floodlight					
BAD63-A65□ □		65	II	泛光 floodlight					
BAD63-A70□ □		70	II	泛光 floodlight					
BAD63-A75□ □		75	III	泛光 floodlight					
BAD63-A80□ □		80	III	泛光 floodlight					
BAD63-A85□ □		85	III	投光/泛光spot light/ floodlight					
BAD63-A90□ □		90	III	投光/泛光spot light/ floodlight					
BAD63-A100□ □		100	III	投光/泛光spot light/ floodlight					
BAD63-A110□ □		110	IV	投光/泛光spot light/ floodlight					
BAD63-A120□ □		120	IV	投光/泛光spot light/ floodlight					
BAD63-A130□ □		130	V	投光/泛光spot light/ floodlight					
BAD63-A140□ □		140	V	投光/泛光spot light/ floodlight					
BAD63-A150□ □		150	V	投光/泛光spot light/ floodlight					
BAD63-A160□ □		160	V	投光/泛光spot light/ floodlight					
BAD63-A170□ □		170	V	投光/泛光spot light/ floodlight					
BAD63-A180□ □		180	V	投光/泛光spot light/ floodlight					

注：* 要求订货时请注明　Note: * Please specify when ordering

产品特点 Featrues

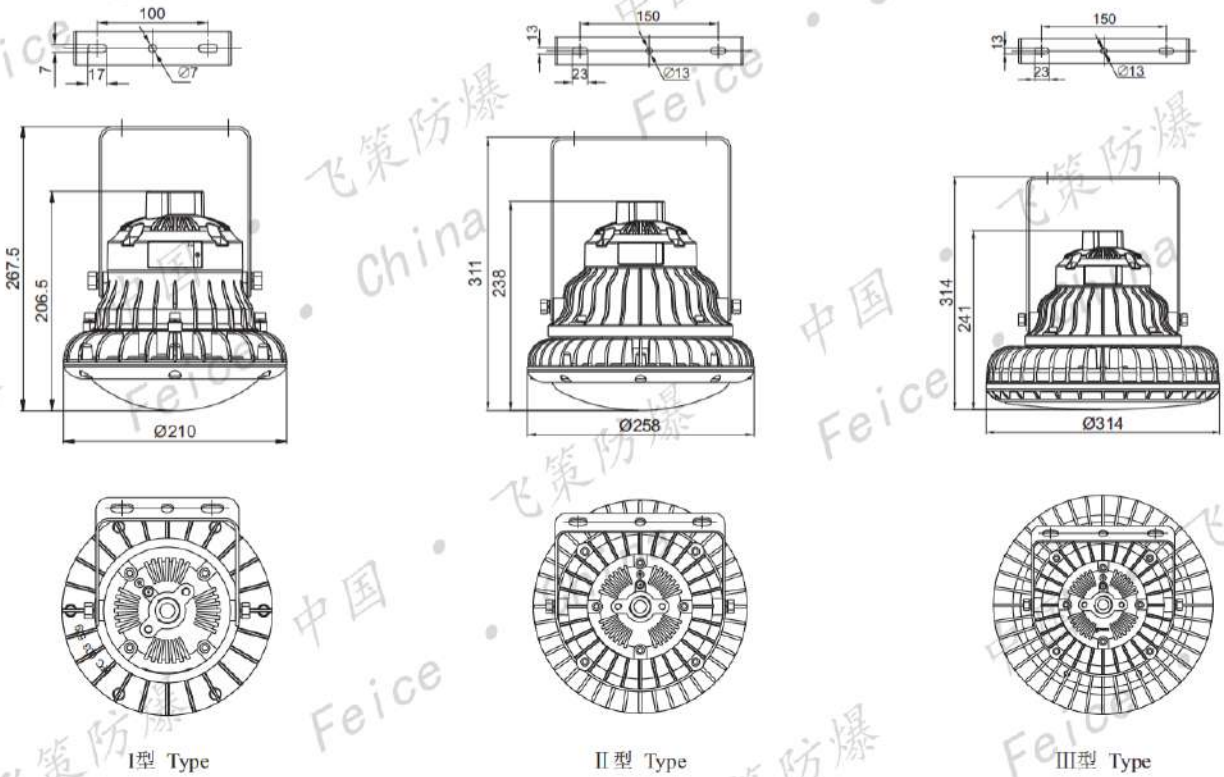
1. 铝合金压铸壳体，表面静电喷塑，外形美观。
2. 专利设计的多腔体结构，电源腔、光源腔和接线腔三腔体各自独立。
3. 采用高硼硅钢化玻璃透明罩或聚碳酸酯透明罩，防爆性能和电器性能可靠。
4. 高防腐性能的不锈钢外露紧固件。
5. 透明罩雾化防眩光设计，能承受高能量冲击，抗热聚变，透光率高达90%。
6. 先进的驱动电源技术，宽电压输入，具有恒流、开路保护、短路保护、浪涌保护等功能。
7. 配置多颗国际品牌LED模块，先进的配光技术，光线均匀柔和，光效≥120lm/w，显色性高，寿命长，绿色环保。
8. 具有空气导流结构的散热导风槽，能确保LED光源的使用寿命。
9. 先进的密封技术，确保在防护要求高，潮湿的环境正常长期运行。

1. Aluminum Alloy die casting shell, the surface electrostatic spray, beautiful appearance.
2. Patented design of multi cavity structure, power supply chamber, light source cavity and wiring cavity three independent of each cavity.
3. Use of borosilicate glass transparent cover or polycarbonate transparent cover, explosion-proof performance and electrical performance and reliable.
4. High corrosion resistance of stainless steel exposed fasteners.
5. Transparent cover fog anti glare design, can withstand high energy shock, heat fusion, light transmittance of up to 90%.
6. Advanced drive technology , wide voltage input, with a constant current, open circuit protection, short circuit protection, surge protection and other functions.
7. The allocation of a plurality of international brand LED module, advanced optical technology, even and soft light, the light effect is≥ 120lm/w, high color, long life, green environmental protection.
8. With the air flow guiding structure of the cooling air duct, can ensure the life of the LED light source.
9. Advanced sealing technology to ensure that the protection of high demand, wet environment, the normal long-term operation.

BAD63-A系列防爆高效节能LED灯

BAD63-A series explosion-proof high efficiency and energy saving LED lamp

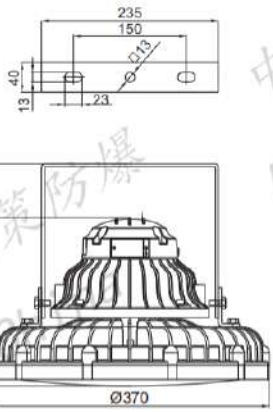
■ 外形及安装尺寸 Outline & Installation dimensions

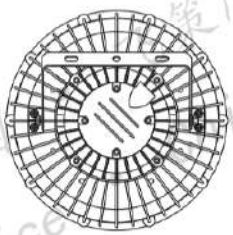


I型 Type

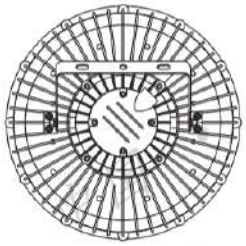
II型 Type

III型 Type



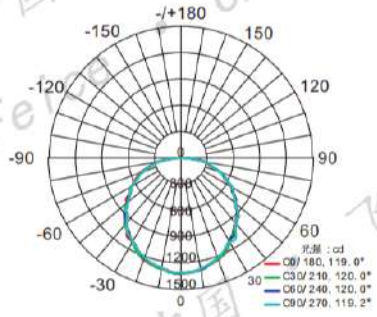


IV型 Type



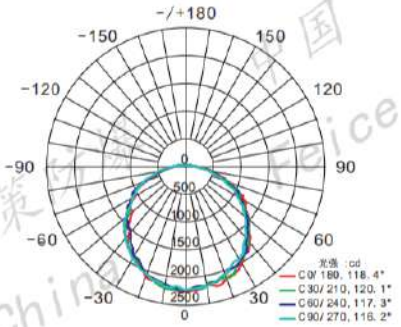
V型 Type

配光曲线 Luminous distribution curve



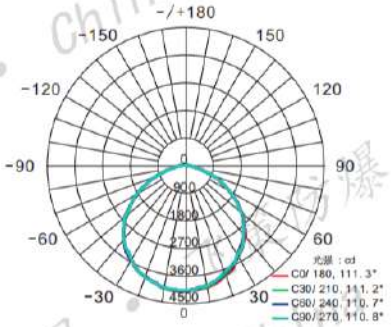
平均光束角(50%)：119. 6度

Ⅰ型 Type



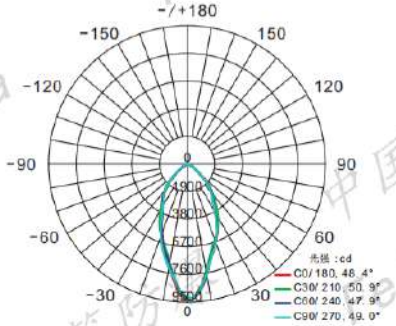
平均光束角(50%)：118. 0度

II型 Type



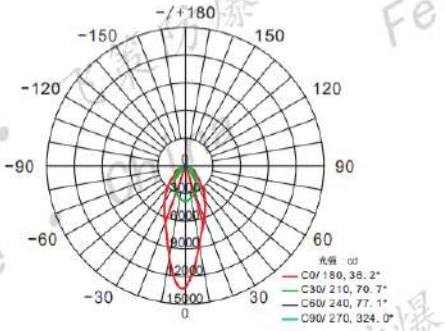
平均光束角(50%)：111. 0度

III型 Type



平均光束角(50%)：49. 0度

IV型 Type



平均光束角(50%)：127. 0度

V型 Type

订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号-规格代码+防爆标志+订购数量”。例如需要隔爆型LED灯具60W，吊杆式安装配接线盒，数量20套，则产品型号规格为：型号：BAD63-规格：A60GH+Ex d ⅡC T6 Gb+20。
2. 选定安装形式及配件见P431~P440。
3. 如有特殊需求，需在订购时详细指明。

1. In accordance with the specifications of the meaning of the rules and regulations to choose one by one, and in the model specifications after the increase of explosion-proof mark. Concrete expression is: "product model - specification code + explosion-proof mark + order quantity". For example, the need for explosion-LED-type lighting 60W, with boom-mounted junction box, the number of 20 sets, the product model specifications: Model: BAD63- Specifications: A60GH + Ex d ⅡC T6 Gb + 20.
2. Refer to pages P431~P440 for the selected mounting styles and accessories.
3. If you have special needs, you need to specify in detail at the time of ordering.

FCD92-□系列防爆高效节能LED灯
FCD92-□ series explosion-proof high-efficiency energy-saving LED lights



■ 型号含义 Model implication

FC D 92-规格：□ □ □ □

- 飞策防爆 Fly Protection
- 灯具类 Lamps
- 设计序号 Design Number
- 额定功率 Rated Power
- H-配接线盒 Connection box
- J-配应急灯控制装置 Emergency light control device
- G-吊杆式 Boom type
- X-吸顶式 Ceiling
- B-支架式 Bracket type
- B1-壁式安装30° Wall mounting 30°
- B4-壁式安装90° Wall mounting 90°
- P□ ①-平台式 Platform type
- P□ ②-路灯式 Street light

①：代表安装型式，分别有：A型、B型、C型、D型、E型、H型、I型、J型。
②：代表安装型式，分别有：A型、B型、C型、D型。

①：Representative installation type, respectively: A type, B type, C type, D type, E type, H type, I type, J type.
②：Representative installation type, respectively: A type, B type, C type, D type.

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于照明节能改造项目及检修更换困难的场所；
3. 适用于爆炸性气体环境的1区、2区；
4. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
5. 适用于可燃性粉尘环境的21区、22区；
6. 适用于防护要求较高，潮湿的场所；
7. 适用于-50℃以上低温环境。

1. It is widely used in general environment lighting and work lighting for dangerous environments such as oil exploitation, oil refining, chemical industry and military industry, as well as offshore oil platforms and oil tankers;
2. Applicable to lighting energy-saving renovation projects and places where maintenance and replacement is difficult;
3. Applicable to Zone 1 and Zone 2 of explosive gas environment;
4. Applicable to IIA, IIB, IIC explosive gas environment;
5. Applicable to areas 21 and 22 of flammable dust environment;
6. Applicable to places with high protection requirements and humidity;
7. Suitable for low temperature environment above -50 °C.

■ 执行标准 Executive standard

GB3836.1、GB3836.2、GB12476.1、GB12476.5、IEC60079.0、IEC60079.1、IEC61241-0、IEC61241-1。

FCD92-□系列防爆高效节能LED灯
FCD92-□ series explosion-proof high-efficiency energy-saving LED lights

FEICE 飞策

■ 产品特点 Features

1. 外壳采用优质铸造铝合金压铸成型，具有表面光滑、内部组织细密、结构轻巧、抗冲击能力强等特点，拉伸表面经静电喷塑，外形非常美观。
2. 专利设计的多腔体结构，电源腔、光源腔和接线腔三腔体各自独立。
3. 灯具进线采用无线连接自主知识产权专利技术，使灯具的安装、使用和维护更加方便和更加安全。
4. 配置国际品牌COB（LED）集成光源模块，单向发光，光线均匀柔和，光效≥140lm/w，显色性高，寿命长，绿色环保。
5. 配置品牌LED驱动装置，宽电压输入，具有恒流、开路保护、短路保护等功能。
6. 可开启的光源腔设计结构，可快速更换集成光源模块。
7. 高光效、半遮光型光学设计，发光角度大。
8. 透明罩雾化防眩光设计，能承受高能量冲击，抗热聚变，透光率高达90%。
9. 可配装应急控制装置，当供电电源断电时，自动切换到应急照明状态。
10. 先进的密封技术，确保在防护要求高，潮湿的环境长期运行。
11. 高功率因数cosΦ≥0.95。
12. 高防腐性能的不锈钢外露紧固件。
13. 钢管、电缆布线均可。

1. The shell is made of high-quality cast aluminum alloy die-casting. It has the characteristics of smooth surface, fine internal structure, light structure and strong impact resistance. The stretched surface is electrostatically sprayed and the appearance is very beautiful.
2. The patented multi-cavity structure, the power cavity, the light source cavity and the wiring cavity are independent of each other.
3. The lighting entry line adopts the patented technology of wireless connection independent intellectual property, which makes the installation, use and maintenance of the lamps more convenient and safer.
4. Configure international brand COB (LED) integrated light source module, one-way illumination, uniform light and soft, light effect ≥140lm/w, high color rendering, long life and green.
5. Configure brand LED drive device, wide voltage input, with constant current, open circuit protection, short circuit protection and other functions.
6. The openable light source cavity design structure allows quick replacement of the integrated light source module.
7. High luminous efficiency, semi-shading optical design, large illumination angle.
8. Transparent cover atomization anti-glare design, can withstand high energy impact, heat fusion, light transmittance up to 90%.
9. It can be equipped with emergency control device, which automatically switches to emergency lighting when the power supply is cut off.
10. Advanced sealing technology ensures long-term operation in high protection and humid environments.
11. High power factor cosΦ ≥ 0.95.
12. Stainless steel exposed fasteners with high corrosion resistance.
13. Steel pipes and cable wiring are available.

■ 带应急功能参数

应急起动时间(s) Emergency Start Time	充电时间(h) Charging time (h)	应急功率(W) Emergency power (W)	应急照明时间(min) Emergency lighting time (min)
≤0.3	24	≤60	≥90

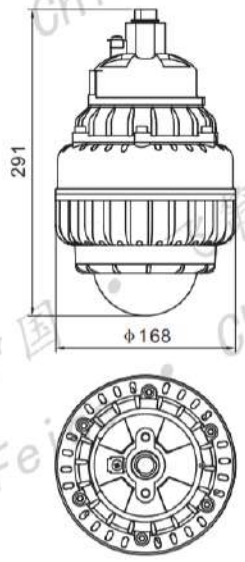
FCD92-□系列防爆高效节能LED灯
FCD92-□ series explosion-proof high-efficiency energy-saving LED lights

■ 主要技术参数 Main technical parameters

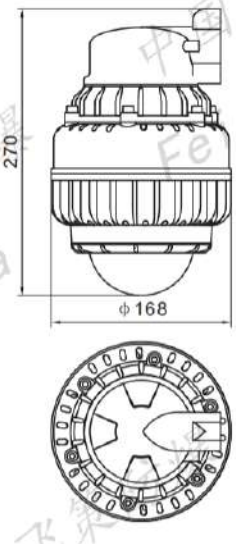
型号规格 Model specification	额定电压 Rated voltage (V)	额定功率 Rated Power (W)	壳体类型 Housing Type	防爆标志 Explosion-proof mark	防护等级 Protection level	防腐等级 Anti-corrosion grade	电缆外径 Cable Outer Diameter (mm)	进线口螺纹 Inlet Thread (G)
FCD92-20	AC220	20	I	Ex d ⅡB/ⅡC T6 Gb Ex tD A21 IP66 T80℃	IP65 IP66*	WF1 WF2*	Φ10～Φ14	3/4
FCD92-30		30	I					
FCD92-40		40	I					
FCD92-50		50	I					
FCD92-60		60	I					
FCD92-70		70	II					
FCD92-80		80	II					
FCD92-100		100	II					

*:订购时需提出。Indicate it when ordering.

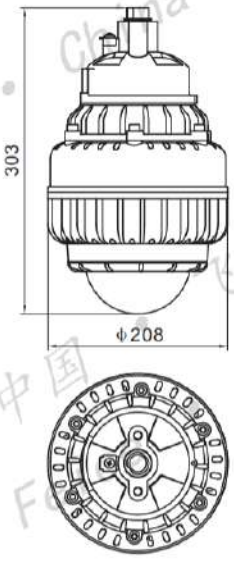
■ 外形及安装尺寸 Outline & installation dimensions



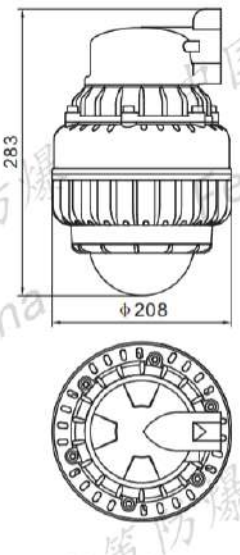
Ⅰ型



Ⅰ型平台式

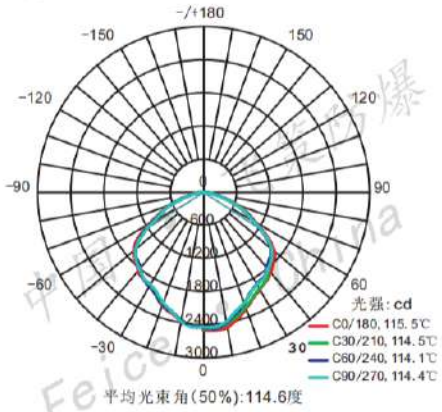


Ⅱ型

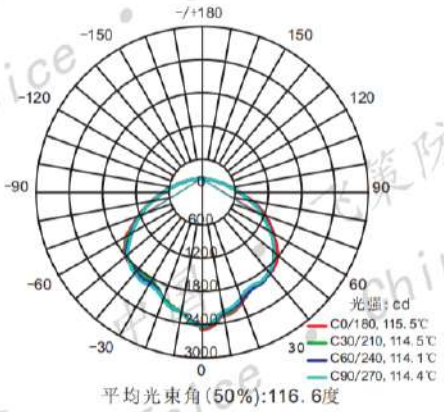


Ⅱ型平台式

■ 配光曲线 Light Distribution Curve



Ⅰ型 Type



Ⅱ型 Type

■ 订货须知 Download Google

1. 按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为："产品规格型号代码+防爆标志+订购数量"。例如需要隔爆型LED灯具60W，吊杆式安装配接线盒，数量20套，则产品型号为：FCD92-60GH+Ex d ⅡC T6 Gb+20。
2. 选定安装形式及配件见P431-P440。
3. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the model meaning and add the explosion-proof mark after the model meaning. The specific embodiment is: "Product specification model code + explosion-proof mark + order quantity". For example, an explosion-proof LED lamp 60W, a boom-mounted junction box, and a number of 20 sets are required, and the product model number is: FCD92-60GH+Ex d IIC T6 Gb+20.
2. See P431-P440 for the selected installation form and accessories.
3. If there are special needs, please specify in the order.

FC-ZFJC-E6W/FC-ZFJC-E9W集中电源集中控制型消防应急照明灯具

FC-ZFJC-E6W/FC-ZFJC-E9W

Centralized power supply and centralized control type fire emergency lighting lamps



FC-ZFJC-E6W



FC-ZFJC-E9W

型号含义 Model implication

FC-ZFJC-E6W

产品代码 Product code	E-光源类型为发光二极管 E-light source type is led W-灯具的额定功率6W W-rated power of the lamp is 6W
类别代码 Class code	Z-照明灯具、F-非持续型 Z-lighting fixtures, F-non continuous J-集中电源型、C-集中控制型 J-centralized power supply type, c-centralized control type
企业代码 Enterprise code	FC-飞策防爆电器股份有限公司 FC-FEICE EXPLOSION-PROOF ELECTRIC CO.,LTD

FC-ZFJC-E9W

产品代码 Product code	E-光源类型为发光二极管 E-light source type is led W-灯具的额定功率9W W-rated power of the lamp is 9W
类别代码 Class code	Z-照明灯具、F-非持续型 Z-lighting fixtures, F-non continuous J-集中电源型、C-集中控制型 J-centralized power supply type, c-centralized control type
企业代码 Enterprise code	FC-飞策防爆电器股份有限公司 FC-FEICE EXPLOSION-PROOF ELECTRIC CO.,LTD

适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境，作集中电源集中控制型消防应急照明灯具应急疏散照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所；
6. 适用于－40℃～＋40℃温度环境。

1. Widely used in dangerous environments such as oil exploitation, oil refining, chemical industry and military industry as centralized power supply and centralized control fire emergency lighting lamps for emergency evacuation lighting;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places;
6. It is applicable to the temperature environment of - 40 ℃~ + 40 ℃.

FC-ZFJC-E6W/FC-ZFJC-E9W集中电源集中控制型消防应急照明灯具

FC-ZFJC-E6W/FC-ZFJC-E9W

Centralized power supply and centralized control type fire emergency lighting lamps

■ 主要技术参数 Main technical parameters

电压(V) Voltage	光源类型 Light source type	功率(W) Power	应急时间 Emergency time	光源名称和参数 Light source name and parameters	外壳防护等级 Enclosure protection class	应急光通量 Emergency luminous flux	防爆标志 Ex-mark	进线口螺纹 Inlet thread	电缆外径(mm) Cable outer diameter
DC36V	LED	6	≥90 min	LED DC3.0V~DC3.4V	IP67	≥50	Ex d e ⅡC T6 Gb Ex tD A21 IP67 T80℃	G3/4	Φ10~14

电压(V) Voltage	光源类型 Light source type	功率(W) Power	应急时间 Emergency time	光源名称和参数 Light source name and parameters	外壳防护等级 Enclosure protection class	应急光通量 Emergency luminous flux	防爆标志 Ex-mark	进线口螺纹 Inlet thread	电缆外径(mm) Cable outer diameter
DC36V	LED	9	≥90 min	LED DC6.2V~DC6.6V	IP67	≥50	Ex d e ⅡC T6 Gb Ex tD A21 IP67 T80℃	G3/4	Φ10~14

■ 执行标准 Featrues

GB 17945-2010《消防应急照明和疏散指示系统》
GB 51309-2018《消防应急照明和疏散指示系统技术标准》

GB 17945-2010《Fire emergency lighting and evacuate indicating system》
GB 51309-2018《Technical standard for fire emergency lighting and evacuate indicating system》

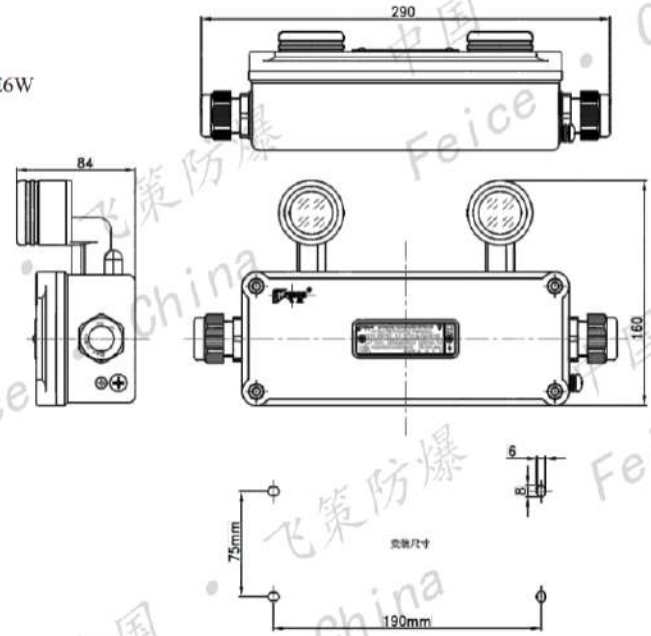
■ 产品结构及特点 Featrues

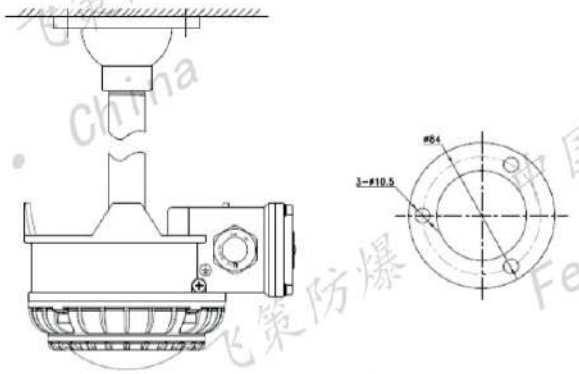
1. FC-ZFJC-E6W（9W）集中电源集中控制型消防应急照明灯具（以下简称灯具）由壳体、壳盖、驱动通讯模块、LED光源双灯头（6W）或单灯头（9W）组成。
2. 灯具外壳为铸铝合金ZL102。产品壳体采用一次压铸成型工艺，产品表面光滑，外形美观大方，金属内部组织致密度高，无气泡、砂眼等缺陷，抗冲击性能强产品外壳防护性能好。
3. 灯具表面通过高速抛丸等系列工艺处理后，采用先进的全自动高压静电喷塑、热固一体化流水线工艺，壳体表面形成的塑层附着力强，不易脱落，有效达到保护壳体的目的，提高了产品的防腐能力。
4. 灯具内部不设蓄电池，由应急照明集中电源供电。
5. 采用超高亮绿色LED光源，光源寿命≥100000h。
6. 当灯具异常状态时，可自动启动故障报警。
7. 灯具内部设有微型计算机芯片，每个灯具都有独立地址编码，可远程升级灯具内软件。
8. 高防护的结构密封设计，密封衬垫为双组份聚氨酯密封胶条连续线浇发泡形成，防护等级达到IP67。
9. 所有外露紧固件为不锈钢材质。
10. 钢管或电缆布线均可。

1. FC-ZFJC-E6W (9W) centralized power supply and centralized control fire emergency lighting lamp (hereinafter referred to as lamp) is composed of shell, shell cover, driving communication module, LED light source, double lamp cap (6W) or single lamp cap (9W).
2. The lamp shell is cast aluminum alloy ZL102. The product shell adopts one-time die casting process, with smooth surface, beautiful and generous appearance, high density of metal internal organization, no bubbles, sand holes and other defects, strong impact resistance and good protection performance of the product shell.
3. After the lamp surface is treated by a series of processes such as high-speed shot blasting, the advanced full-automatic high-voltage electrostatic plastic spraying and thermosetting integrated assembly line process is adopted. The plastic layer formed on the shell surface has strong adhesion and is not easy to fall off, which effectively achieves the purpose of protecting the shell and improves the anti-corrosion ability of the product.
4. There is no storage battery inside the lamp, which is powered by the centralized power supply of emergency lighting.
5. Super bright green LED light source is adopted, and the service life of the light source is ≥100000h.
6. Display fault information, including fault type, time and location, and give audible and visual signal alarm.
7. A microcomputer chip is set inside the lamp, and each lamp has an independent address code, which can remotely upgrade the software in the lamp.
8. High protection structural sealing design, the sealing gasket is formed by continuous line pouring and foaming of two-component polyurethane sealant strip, and the protection grade reaches IP67.
9. All exposed fasteners are made of stainless steel.
10. Steel pipe or cable wiring can be used.

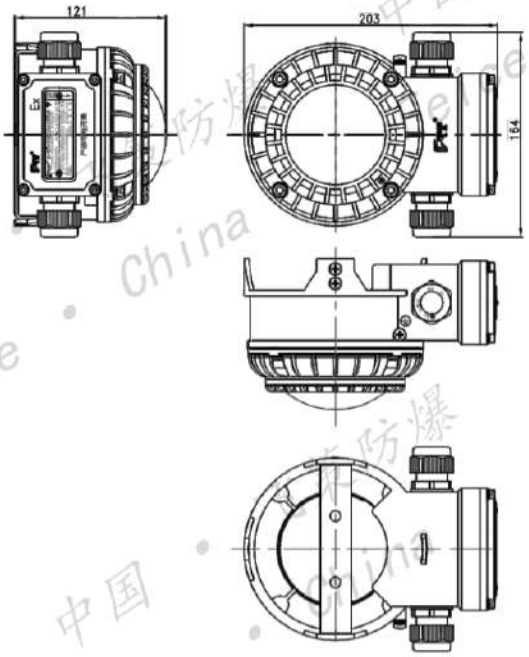
外形及安装尺寸 Outline & Installation dimensions

FC-ZFJC-E6W





FC-ZFJC-E9W 吊杆式
FC-ZFJC-E9W boom type



FC-ZFJC-E9W 壁式、吸顶式
FC-ZFJC-E9W wall type,ceiling type

订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择并注明防爆标志，例如需要集中电源集中控制型消防应急照明灯具，双灯头6W，则产品型号为：FC-ZFJC-E6W Ex d e IIC T6 Gb，Ex tD A21 IP66 T80℃。
2. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of the model and indicate the explosion-proof signs. For example, if centralized power supply and centralized control fire emergency lighting lamps are required, and double lamp heads are 6W, the product model is FC-ZFJC-E6W Ex d e IIC T6 Gb，Ex tD A21 IP66 T80℃.
2. If there is any special demand, it shall be specified in detail when ordering.

FC-D-0.5KVA应急照明集中电源（消防应急灯具专用应急电源）

FC-D-0.5KVA Centralized power supply for emergency lighting (special emergency power supply for fire emergency lamps)



型号含义 Model implication

FC-D-0.5KVA

产品代码 Product code	KVA应急照明集中电源输出功率 KVA output power of centralized power supply for emergency lighting
类别代码 Category code	D-应急照明集中电源 C-Centralized power supply for emergency lighting
企业代码 Enterprise code	FC-飞策防爆电器股份有限公司 FC-FEICE EXPLOSION-PROOF ELECTRIC CO.,LTD

适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险场所，作为集电集控型消防应急标志灯、集电集控型消防应急照明灯等疏散设备提供应急供电；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高及潮湿的场所；
6. 适用于－40℃～+40℃温度环境。

1. It is widely used in dangerous places such as oil exploitation, oil refining, chemical industry and military industry to provide emergency power supply for evacuation equipment such as centralized control fire emergency marker lamp and centralized control fire emergency lamp;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places;
6. It is applicable to the temperature environment of - 40 ℃~ + 40 ℃.

主要技术参数 Main technical parameters

额定电源电压/频率 Rated supply voltage / frequency	额定输出电压 Rated output voltage	输出功率 Output power	应急时间 Emergency time	防爆标志 Ex-mark	防护等级 Degree of protection	主、备电切换时间 Switching time of main and standby power	电池容量 Battery capacity
AC220V 50HZ	DC36V	0.5KVA	≥90min	Ex d e ⅡC T6 Gb, Ex tD A21 IP66 T80℃	IP66	<5S	12V/75AH(1节)

FC-D-0.5KVA应急照明集中电源（消防应急灯具专用应急电源）

FC-D-0.5KVA Centralized power supply for emergency lighting (special emergency power supply for fire emergency lamps)

■ 执行标准 Featrues

GB 17945-2010《消防应急照明和疏散指示系统》
GB 51309-2018《消防应急照明和疏散指示系统技术标准》

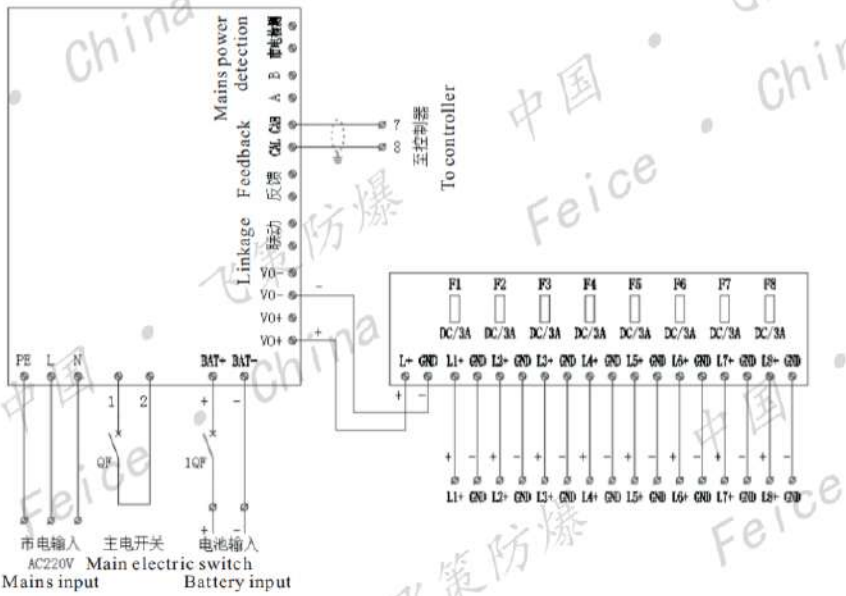
GB 17945-2010《Fire emergency lighting and evacuate indicating system》
GB 51309-2018《Technical standard for fire emergency lighting and evacuate indicating system》

■ 产品结构及特点 Featrues

1. FC-D-0.5KVA应急照明集中电源（消防应急灯具专用应急电源）（以下简称应急电源）由壳体、壳盖、钢化玻璃板及高速微控制器、锂离子蓄电池等组成。
2. 当建筑物发生火灾、事故或其他紧急情况，导致市电掉电时，应急照明集中电源可以为A型消防应急标志灯、A型消防应急照明灯等疏散设备提供应急供电。与自带电源的消防灯具相比，集中供电型应急电源具有适用范围宽、维护简便、成本低等显著特点。随着建筑消防水平的提高，特别是高层、大型建筑的增加，应急照明集中电源已成为建筑必备的消防设施。
3. 市电、备电自动转换功能--市电中断或电压超过规定范围时自动提供备电，保证后接负载的正常工作，切换时间<5S。
4. 显示界面友好直观--LCD汉字显示工作状态、主电电压、电池电压、输出电压、输出电流。同时主电状态、应急状态、故障状态、充电状态分别用，绿色，红色、黄色、红色4颗LED显示，设备工作状态一目了然。
5. 操作简单--自动化程度高。可以有自动方式，测试方式，强制方式使设备有市电状态转入应急状态。
6. 维护方便--采用模块化设计，机构简洁，维护方便。
7. 智能电池管理—自控充电技术的大电流充电，充电速度快，延长电池使用寿命。
8. 高可靠性--采用先进技术和冗余处理，高速度，高性能CPU保证系统的稳定性和可靠性。具有优良的输出过载保护、短路保护、过放电保护等完善的保护功能。
9. 数字通讯接口—CAN总线数字接口，实现EPS的远程管理和控制。

1. The emergency lighting controller is composed of industrial computer, fire power module, communication circuit module and backup power supply. Among them, the industrial computer receives Fas fire alarm signal, and the communication module is equipped with 8 circuits.
2. As the main control equipment, the emergency lighting controller, together with the centralized power supply for emergency lighting (special emergency power supply for fire emergency lamps), the centralized fire emergency lighting lamps and the centralized fire emergency lighting sign lamps, constitutes a centralized fire emergency evacuation indication system.
3. Real time monitoring and management of terminal equipment data and status.
4. Intelligent network analysis, guide the terminal to indicate the evacuation direction, provide the best and safest escape path and light up the lighting lamps, or guide according to the preset scheme.
5. It can save the working log records of the operating system, the data storage capacity is greater than 10000, and the storage time after the system power down is greater than 10 years.
6. Display fault information, including fault type, time and location, and give audible and visual signal alarm.
7. Monitor the battery status, output status and input status of emergency power supply at any time.
8. Can bus communication is adopted between the host and the centralized power supply.
9. It can be seamlessly connected with FAS fire alarm system.
10. The software interface is friendly, the human-computer interaction is simple, and the menu is equipped with software startup; Interface introduction; set up; Place, modify, delete and find; Command; Query history; Linkage and other pages, the operators can master the software functions and complete the system networking debugging after simple training.

■ 设备接线图 Equipment wiring diagram



FC-D-0.5KVA应急照明集中电源（消防应急灯具专用应急电源）

FC-D-0.5KVA Centralized power supply for emergency lighting (special emergency power supply for fire emergency lamps)

FEICE 飞策

■ 面板操作说明 Panel operating instructions

1. 控制与显示功能介绍

1. 1. 主电LED指示灯----应急照明电源市电工作时，该绿色指示灯点亮。

1. 2. 充电LED指示灯----应急照明电源对电池充电时，该红色指示灯点亮。如果有电池故障，充电故障，市电掉电或充电完毕后，指示灯熄灭。

1. 3. 故障LED指示灯----应急照明电源存在任何故障，该黄色指示灯点亮。反之熄灭。

1. 4. 应急LED指示灯----应急照明电源工作在应急状态下，该红色指示灯点亮，反之熄灭。

1. 5. 测试按钮----市电存在前提下，模拟主电掉电，启动应急输出。

1. 6. 手动输出开关---市电存在时，使应急照明电源手动转入应急状态。

1. 7. 强启按钮---强制应急启动按钮，该按钮启动后，应急照明电源不受过放电保护的影响。

2. 调试、运行：

2. 1. 检查设备和电池的安装、接线，确认正确无误；确认设备上的断路器都处于“关”状态。

2. 2. 确认设备保险是否安装正确；

2. 3. 将应急照明电源“强启”开关置于“关”状态，闭合备电断路器。

2. 4. 接通主电电源，检测LED和LCD显示是否正确。

2. 5. 进入“菜单”，查看每个参数是否正常。

2. 6. “测试按钮”、“手动输出按钮”，强启按钮是否工作正常。

1. Introduction to control and display functions

1. 1.Main power LED indicator - the green indicator is on when the emergency lighting power supply is working.

1. 2.Charging LED indicator - when the emergency lighting power supply charges the battery, the red indicator is on. In case of battery failure, charging failure, mains power failure or after charging, the indicator light will go out.

1. 3.Fault led indicator - if there is any fault in the emergency lighting power supply, the yellow indicator is on. On the contrary, it goes out.

1. 4.Emergency LED indicator - when the emergency lighting power supply works in emergency state, the red indicator is on, otherwise it is off.

1. 5.Test button - simulate the main power failure and start the emergency output under the premise of the existence of mains power.

1. 6.Manual output switch - when mains power is available, manually turn the emergency lighting power supply into emergency state.

1. 7.Forced start button -- forced emergency start button. After the button is started, the emergency lighting power supply will not be affected by discharge protection.

2. Commissioning and operation:

2. 1.Check the installation and wiring of equipment and battery to confirm that they are correct; Confirm that the circuit breakers on the equipment are in the "off" state.

2. 2.Confirm whether the equipment insurance is installed correctly;

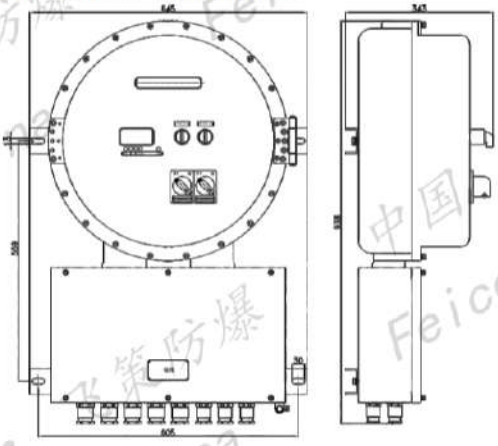
2. 3.Turn the "forced start" switch of emergency lighting power supply to the "off" state and close the standby power circuit breaker.

2. 4.Turn on the main power supply and check whether the LED and LCD display are correct.

2. 5.Enter "menu" to check whether each parameter is normal.

2. 6.Whether the "test button", "manual output button" and forced start button work normally.

■ 外形及安装尺寸 Outline & Installation dimensions



■ 订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择并注明防爆标志，例如需要应急照明集中电源，功率为0.5KVA，则产品型号为：FC-D-0.5KVA Ex d e ⅡC T6 Gb，Ex tD A21 IP66 T80℃。

2. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of the model and indicate the explosion-proof signs. For example, if the centralized power supply for emergency lighting is required and the power is 0.5KVA, the product model is FC-D-0.5KVA Ex d e ⅡC T6 Gb, Ex tD A21 IP66 T80 ℃.

2. If there is any special demand, it shall be specified in detail when ordering.

FC-C-B-C006(C003)应急照明控制器
FC-C-B-C006(C003) Emergency lighting controller



挂式 Hanging type



柜式 Cabinet type

■ 型号含义 Model implication

FC-C-B-C006(C003)

产品代码 Product code	B-C006：柜式；B-C003：挂式 B-C006 : Cabinet type;B-C003:Hanging type
类别代码 Category code	C-应急照明控制器 C-Emergency lighting controller
企业代码 Enterprise code	FC-飞策防爆电器股份有限公司 FC-FEICE EXPLOSION-PROOF ELECTRIC CO.,LTD

■ 适用范围 Applications

广泛用于具有火灾隐患的石油开采、炼油、化工、军工以及民用建筑等行业领域，放置在消防控制室，作为控制并显示集中控制型消防应急灯具、应急照明集中电源及相关附件等工作状态的装置。

It is widely used in petroleum exploitation, oil refining, chemical industry, military industry, civil construction and other industries with fire hazards. It is placed in the fire control room as a device to control and display the working status of centralized control fire emergency lamps, centralized power supply for emergency lighting and related accessories.

■ 主要技术参数 Main technical parameters

型号 Model	FC-C-B-C006	FC-C-B-C003
输入电压 Input voltage	AC220V±15% 50Hz	
备用电源应急时间 Emergency time of standby power supply	>3h	
系统通讯方式 System communication mode	CAN总线 CAN bus	
显示方式 Display mode	图文显示 Graphic display	
回路接口 Loop interface	2个（可扩展到16个） 2 (Expandable to 16)	
防护等级 Degree of protection	IP30	
带载灯具数量 Number of loaded lamps	≤3200	

FC-C-B-C006(C003)应急照明控制器
FC-C-B-C006(C003) Emergency lighting controller

显示设备 Display device	17'寸工业LCD显示屏 17 'inch Industrial LCD display	12'寸工业LCD显示屏 12 'inch Industrial LCD display
FAS接口 Fas interface	标准RS232、RS485、无源干节点联动 Standard RS232, RS485, passive dry node linkage	
安装方式 Installation mode	柜式 Cabinet type	挂式 Hanging type
外形尺寸(H×L×W) Overall dimension	1880×600×600	500×360×115
环境温度范围 Ambient temperature range	-10℃~+50℃ ≤93%RH	
远程调试 Remote debugging	具有物联网功能 With Internet of things function	

■ 执行标准 Featrues

GB 17945-2010《消防应急照明和疏散指示系统》
GB 51309-2018《消防应急照明和疏散指示系统技术标准》

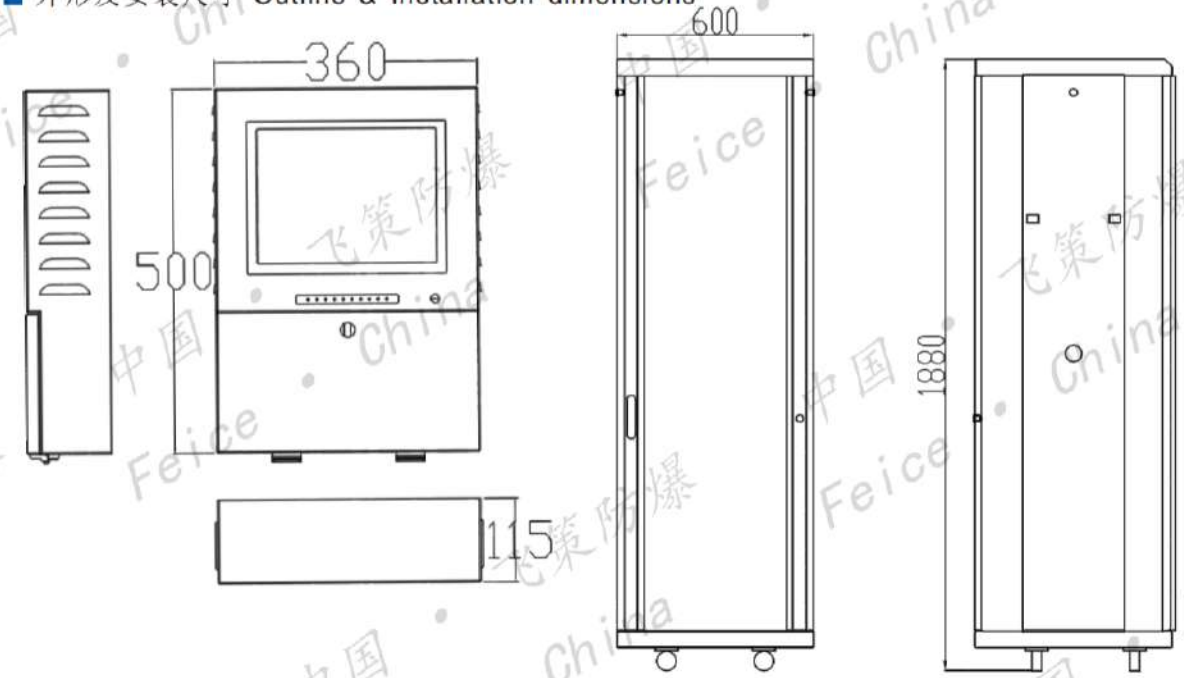
GB 17945-2010 《Fire emergency lighting and evacuate indicating system》
GB 51309-2018 《Technical standard for fire emergency lighting and evacuate indicating system》

■ 产品结构及特点 Featrues

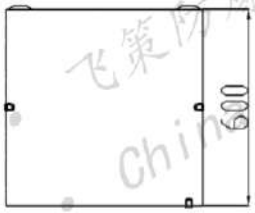
1. 应急照明控制器由工控机、消防电源模块、通讯回路模块和后备电源组成，其中，工控机接受FAS火灾报警信号，通讯模块设有8个回路。
2. 应急照明控制器作为主控设备，与应急照明集中电源（消防应急灯具专用应急电源）、集电集控消防应急照明灯具、集电集控消防应急照明标志灯具构成集电集控型消防应急疏散指示系统。
3. 实时监控和管理终端设备数据及状态。
4. 智能化网络分析，引导终端指示疏散方向，提供最佳、最安全的逃生路径并点亮照明灯具，也可按预设方案进行引导。
5. 能够保存操作系统的工作日志记录，数据存储容量大于10000条，系统掉电后保存时间大于10年。
6. 显示故障信息，包括故障类型、时间、位置并声光信号报警。
7. 随时监控应急电源的电池状态、输出状态、输入状态。
8. 主机与集中电源之间采用CAN总线方式通讯。
9. 可与FAS火灾报警系统无缝对接。
10. 软件界面友好，人机交互简单，菜单设有软件启动；界面介绍；设置；放置、修改、删除与查找；命令；查询历史记录；联动等页面，操作人员经过简单培训即可熟练掌握软件功能，完成系统组网调试。

1. The emergency lighting controller is composed of industrial computer, fire power module, communication circuit module and backup power supply. Among them, the industrial computer receives Fas fire alarm signal, and the communication module is equipped with 8 circuits.
2. As the main control equipment, the emergency lighting controller, together with the centralized power supply for emergency lighting (special emergency power supply for fire emergency lamps), the centralized fire emergency lighting lamps and the centralized fire emergency lighting sign lamps, constitutes a centralized fire emergency evacuation indication system.
3. Real time monitoring and management of terminal equipment data and status.
4. Intelligent network analysis, guide the terminal to indicate the evacuation direction, provide the best and safest escape path and light up the lighting lamps, or guide according to the preset scheme.
5. It can save the working log records of the operating system, the data storage capacity is greater than 10000, and the storage time after the system power down is greater than 10 years.
6. Display fault information, including fault type, time and location, and give audible and visual signal alarm.
7. Monitor the battery status, output status and input status of emergency power supply at any time.
8. Can bus communication is adopted between the host and the centralized power supply.
9. It can be seamlessly connected with FAS fire alarm system.
10. The software interface is friendly, the human-computer interaction is simple, and the menu is equipped with software startup; Interface introduction; set up; Place, modify, delete and find; Command; Query history; Linkage and other pages, the operators can master the software functions and complete the system networking debugging after simple training.

■ 外形及安装尺寸 Outline & Installation dimensions



FC-C-B-C003



FC-C-B-C006

■ 订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择，例如需要应急照明控制器，安装形式为柜式，则产品型号为：FC-C-B-C006。
2. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of the model. For example, if the emergency lighting controller is required and the installation form is cabinet type, the product model is fc-c-b-c006.
2. If there is any special demand, it shall be specified in detail when ordering.

FC-BLJC-I1LROE1W-dYD-B集中电源集中控制型消防应急标志灯具

FC-BLJC-I1LROE1W-dYD-B

Centralized power supply centralized control type fire emergency sign lamp



■ 型号含义 Model implication

FC-BLJC-I1LROE1W-dYD-B

设计代码 Design code	dYD-B-防爆标志灯 dYD-b-explosion proof marker lamp
产品代码 Product code	I-小型、1-单面、L-疏散方向向左 I-small, 1-single, L-evacuation direction left R-疏散方向向右、O-无疏散方向 R-evacuation direction to the right, O-no evacuation direction E-光源为发光二极管、W-功率 E-light source is led, W-power
类别代码 Class code	B-标志灯具、L-持续型 B-sign lamp, l-continuous type J-集中电源型、C-集中控制型 J-centralized power supply type, c-centralized control type
企业代码 Enterprise code	FC-飞策防爆电器股份有限公司 FC-FEICE EXPLOSION-PROOF ELECTRIC CO.,LTD

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险场所，作为集中电源集中控制型消防应急标志灯具安全出口指示、疏散指示标识之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所；
6. 适用于－40℃～＋40℃温度环境。

1. Widely used in dangerous places such as oil exploitation, oil refining, chemical industry and military industry. It is used as centralized power supply and centralized control fire emergency sign lamps, emergency exit indication and evacuation indication signs;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places;
6. It is applicable to the temperature environment of - 40 ℃～ + 40 ℃.

■ 主要技术参数 Main technical parameters

配用光源 Matched light source	额定电压 Rated voltage	额定功率 Rated power	应急照明时间 Emergency lighting time	防爆标志 Ex-mark	防护等级 Degree of protection	防腐等级 Anti corrosion grade	进线线径 Incoming wire diameter
LED	DC36	1W	≥90min	Ex d e ⅡC T6 Gb Ex tD A21 IP67 T80℃	IP67	WF1 *WF2	φ9～11或 φ12～14.5

FC-BLJC-I1LROE1W-dYD-B集中电源集中控制型消防应急标志灯具

FC-BLJC-I1LROE1W-dYD-B

Centralized power supply centralized control type fire emergency sign lamp

FEICE 飞策

■ 执行标准 Featrues

GB 17945-2010《消防应急照明和疏散指示系统》
GB 51309-2018《消防应急照明和疏散指示系统技术标准》

GB 17945-2010《Fire emergency lighting and evacuate indicating system》
GB 51309-2018《Technical standard for fire emergency lighting and evacuate indicating system》

■ 产品结构及特点 Featrues

1. FC-BLJC-I1LROE1W-dYD-B集中电源集中控制型消防应急标志灯具（以下简称标志灯）由壳体、壳盖、钢化玻璃板及驱动通讯模块、LED光源等组成。
2. 标志灯具为常明灯形式，即正常照明，应急照明，灯具均显示，在正常电源失电时，自动切换到应急状态，由外部应急电源供电，断电应急时间不小于90分钟；本灯具为单面指示，安装方式有吊杆式、吸顶式、壁式等；标志牌有：“安全出口”、“向左”、“向右”“双向”等字样或图案供用户选用。标志灯内外均设有接地螺钉，用户使用时就可靠接地。
3. 标志灯具外壳为铸铝合金ZL102。产品壳体采用一次压铸成型工艺，产品表面光滑，外形美观大方，金属内部组织致密度高，无气泡、砂眼等缺陷，抗冲击性能强产品外壳防护性能好。
4. 标志灯具表面通过高速抛丸等系列工艺处理后，采用先进的全自动高压静电喷塑、热固一体化流水线工艺，壳体表面形成的塑层附着力强，不易脱落，有效达到保护壳体的目的，提高了产品的防腐能力。
5. 标志灯具内部不设蓄电池，由应急照明集中电源供电。
6. 采用超高亮绿色LED光源，光源寿命≥100000h。
7. 标志灯具光源通过导光板进行匀光处理，使标志灯表面发光均匀，表面亮度符合国家标准50~300cd/m²的要求。
8. 当标志灯具异常状态时，可自动启动故障报警。
9. 具有非持续、持续、频闪、调向、强迫点亮等工作模式，并具有巡检、开灯、灭灯等功能。
10. 灯具内部设有微型计算机芯片，每个灯具都有独立地址编码，可远程升级灯具内软件。
11. 灯具内部设有微型计算机芯片，每个灯具都有独立地址编码，可远程升级灯具内软件。
12. 所有外露紧固件为不锈钢材质。
13. 钢管或电缆布线均可。

1. FC-BLJC-I1LROE1W-dYD-B centralized power supply centralized control fire emergency sign lamp (hereinafter referred to as sign lamp) is composed of shell, shell cover, tempered glass plate, driving communication module, LED light source, etc.
2. The sign lamps are in the form of normally open lamps, i.e. normal lighting, emergency lighting, and lamps are displayed. When the normal power supply is lost, it will automatically switch to the emergency state, which will be powered by the external emergency power supply, and the emergency time of power failure shall not be less than 90 minutes; The lamp is single-sided indication, and the installation methods include suspender type, ceiling type, wall type, etc; The signs include: "emergency exit", "left", "right", "two-way" and other words or patterns for users to choose. Grounding screws are set inside and outside the sign lamp, which can be reliably grounded when users use it.
3. The shell of sign lamp is cast aluminum alloy ZL102. The product shell adopts one-time die casting process, with smooth surface, beautiful and generous appearance, high density of metal internal organization, no bubbles, sand holes and other defects, strong impact resistance and good protection performance of the product shell.
4. After the surface of the sign lamp is treated by a series of processes such as high-speed shot blasting, the advanced automatic high-voltage electrostatic plastic spraying and thermosetting integrated assembly line process is adopted. The plastic layer formed on the shell surface has strong adhesion and is not easy to fall off, which effectively achieves the purpose of protecting the shell and improves the anti-corrosion ability of the product.
5. There is no storage battery inside the sign lamp, which is powered by the centralized power supply of emergency lighting.
6. Super bright green LED light source is adopted, and the service life of the light source is ≥100000h.
7. The light source of the sign lamp is subject to uniform light treatment through the light guide plate to make the surface of the sign lamp emit light evenly, and the surface brightness meets the requirements of the national standard of 50 ~ 300cd / m².
8. LWhen the sign lamp is in abnormal state, it can automatically start the fault alarm.
9. It has non continuous, continuous, stroboscopic, direction adjustment, forced lighting and other working modes, and has the functions of patrol inspection, light on, light off and so on.
10. A microcomputer chip is set inside the lamp, and each lamp has an independent address code, which can remotely upgrade the software in the lamp.
11. High protection structural sealing design, the sealing gasket is formed by continuous line pouring and foaming of two-component polyurethane sealant strip, and the protection grade reaches IP67.
12. All exposed fasteners are made of stainless steel.
13. Steel pipe or cable wiring can be used.

FC-BLJC-I1LROE1W-dYD-B集中电源集中控制型消防应急标志灯具

FC-BLJC-I1LROE1W-dYD-B

Centralized power supply centralized control type fire emergency sign lamp

■ 外形及安装尺寸 Outline & Installation dimensions

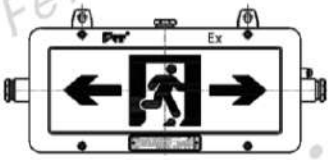
常见疏散指示标志的图案与文字如下，也可根据GB 17945-2010附录B和客户具体要求制作。
The patterns and words of common evacuation signs are as follows, which can also be made according to Appendix B of GB 17945-2010 and the specific requirements of customers.

疏散指引标志图案

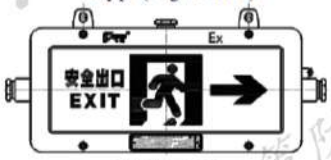
Evacuation guidance sign pattern



A型（图B.1）
A type(Figure B.1)



B型（图B.4）
B type(Figure B.4)



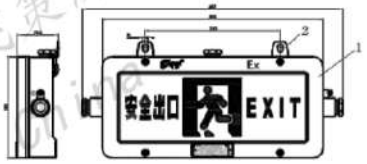
C型（图B.2+B.3）
C type(Figure B.2+B.3)



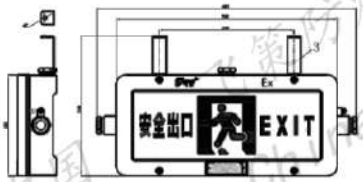
D型（图B.1+B.3）
D type(Figure B.1+B.3)



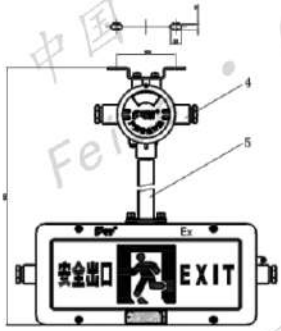
楼层显示标志（图B.6）
Floor display sign(Figure B.6)



安装方式：壁式（B）
Installation mode:wall type(B)



安装方式：吸顶式（X）
Installation mode:ceiling type(X)



安装方式：吊杆式（G）
Installation mode:boom type(G)

序号 Serial number	名称 Name	备注 Remarks
1	FC-BLJC-I1LROE1W-dYD-B集中电源集中控制型消防应急标志灯具 FC-BLJC-I1LROE1W-dYD-B Centralized power supply centralized control type fire emergency sign lamp	
2	安装支架 Mounting bracket	壁式 Wall type
3	安装支架 Mounting bracket	吸顶式 Ceiling type
4	防爆吊灯盒AH-H G3/4 Explosion proof chandelier box AH-H G3/4	
5	安装支架G3/4 Mounting bracket G3/4	吊杆式 Boom type

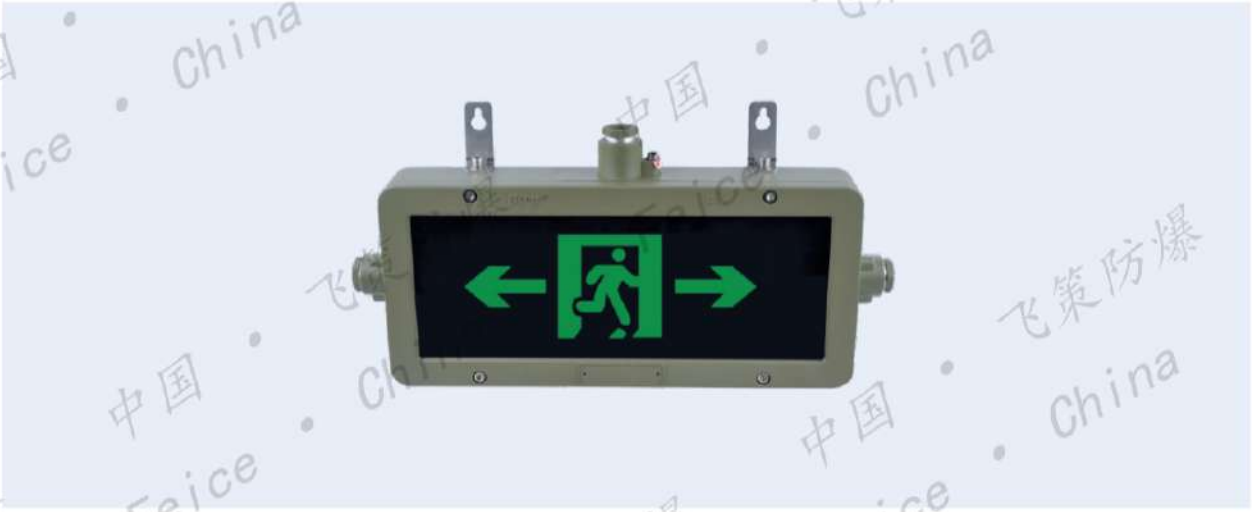
■ 订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择并注明防爆标志，例如需要集中电源集中控制型消防应急标志灯具，疏散指示标志图案为B型，吸顶式安装，则产品型号为：FC-BLJC-I1LROE1W-dYD-B+BX Ex d e IIC T6 Gb，Ex tD A21 IP66 T80℃。
2. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of model and indicate explosion-proof signs. For example, centralized power supply and centralized control fire emergency sign lamps are required. The evacuation indication sign pattern is type B and ceiling mounted. Then the product model is FC-BLJC-I1LROE1W-dYD-B+BX Ex d e IIC T6 Gb，Ex tD A21 IP66 T80℃.
2. If there is any special demand, it shall be specified in detail when ordering.

FC-BLZD-I1LROE3W-dYD-B-□ 消防应急标志灯具

FC-BLZD-I1LROE3W-dYD-B-□ fire emergency signs lamps



■ 型号含义 Model implication

FC-BLZD-I 1LROE3W-dYD-B-□ (□)

- 疏散指示标志代号 Evacuation indicator code
- 类型 I型:AC220V(可不标)、II型：DC36/24V
  Type I type:AC220V(needn't be sign)、II type:DC36/24V
- 设计代码 dYD-B-防爆标志灯 Design code dYD-b-explosion proof marker lamp
- 产品代码 I-小型、1-单面、LR-疏散方向为双向、E-光源为发光二极管、W-额定功率
  Product code I-Small、1-Single-sided、LR-Evacuation direction is bidirectional、E-Light source for the light-emitting diodes、W-Rated power
- 类别代码 B-标志灯具、L-持续型、Z-自带电源型、D-非集中控制型
  Class code B-Signs lamps、L-Persistent、Z-Comes with power type、D-Decentralized control
- 企业代码 Enterprise code

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险场所，作安全出口指示、疏散指示标识之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所；
6. 适用于-40℃以上低温环境；
7. 应急控制方式：非集中控制型；
8. 应急供电形式：自带电源型；
9. 配接设备：本公司应急照明配电箱。

1. Widely used in oil extraction, oil refining, chemical industry, military and other dangerous places, as a safe exit indication, evacuation instructions for use;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places;
6. Suitable for low temperature environment above -40;
7. Emergency control mode: non centralized control type;
8. Emergency power supply form: self-contained power supply type;
9. Distribution equipment: emergency lighting distribution box of the company.

■ 主要技术参数 Main technical parameters

配用光源 Equipped with light source	额定电压(V) Rated Voltage	额定功率(W) Rated Power	应急照明时间 Emergency lighting time (min)	外壳防护等级 Enclosure rating	表面亮度(cd/m²) Surface brightness	防爆标志 Ex-mark
LED	AC220V DC24/36V	3	≥90	IP67	50<L<300	Ex e ib q IIC T6 Gb Ex tD ibD A21 IP66 T80℃

FC-BLZD-I1LROE3W-dYD-B-□ 消防应急标志灯具

FC-BLZD-I1LROE3W-dYD-B-□ fire emergency signs lamps

FEICE 飞策

■ 执行标准 Featrues

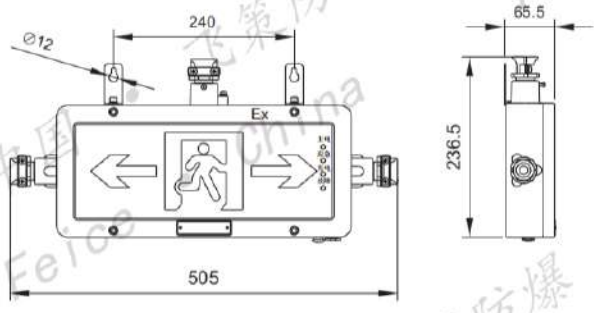
GB3836.1、GB3836.3、GB3836.4、、GB3836.7、GB12476.1、GB12476.4、GB12476.5、GB17945、GB51309、IEC60079.0、IEC60079.1、IEC61241-0、IEC61241-1。

■ 产品结构及特点 Featrues

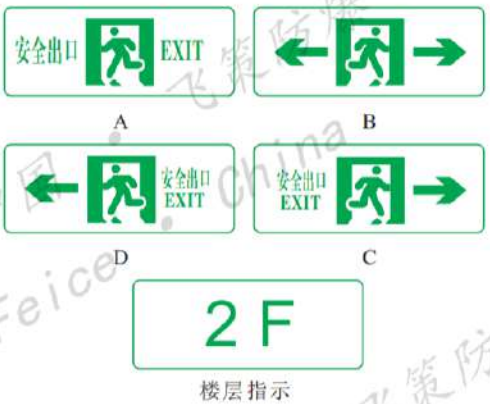
1. 铝合金压铸壳体，表面高压静电喷塑。
2. 配置长寿命高亮度LED光源，功耗低、高亮度，有效满足节能、环保的要求。
3. 内装免维护镍氢电池组，正常工作时自动充电，断电时可应急供电90分钟。
4. 特殊设计的本安电路，具有过充电保护、短路保护、过放电保护等多种保护功能，有效保证使用性能。
5. 设有月检功能，每月自动放电一次，应急状态维持120S，自动恢复主电状态。
6. 设有年检功能，每隔一年自动由主电状态转入应急工作状态并持续放电终止，然后恢复主电状态。
7. 高防护的结构密封设计，配置耐老化的硅橡胶密封衬垫，达到良好的防护性能。
8. 长明灯形式，即正常照明、应急照明灯具均正常显示，在正常电源断电时，自动切换到应急状态，应急电池放电，应急时间不小于90分钟。
9. 显示面板疏散指示标志有多种图案供选择，也可根据用户要求订制。
10. 所有外露紧固件为不锈钢材质。
11. 钢管或电缆布线均可。

1. Aluminum alloy die-casting shell, the surface of high-pressure electrostatic spray.
2. Configuration of long life high brightness LED light source, low power consumption, high brightness, effectively meet the energy saving, environmental protection requirements
3. Built-in maintenance-free Ni-MH battery pack, the normal work of automatic charging, power failure can be emergency power supply 90 minutes.
4. With the special design of the intrinsically safe circuit, overcharge protection, short circuit protection, over discharge protection and other protection function, effectively ensure the use of performance.
5. Has the function of monthly check, automatic discharge once a month, the emergency state to maintain 120s, automatic restoration of the main power state.
6. With annual inspection function, every one year automatically transferred from the main electric state to the state of emergency work and continuous discharge, and then restore the state of the main power, automatic restoration of the main state.
7. High protection of the structure of the design, the configuration of anti aging silicone rubber sealing gasket, to achieve good protection performance.
8. Light form, namely normal lighting and emergency lighting are displayed in the normal power supply, automatic switching to a state of emergency, emergency battery discharge, emergency time not less than 90 minutes.
9. Display panel evacuation signs have a variety of patterns to choose from, can also be customized according to user requirements.
10. All exposed fasteners are made of stainless steel.
11. Steel or cable wiring can be.

■ 外形及安装尺寸 Outline & Installation dimensions



■ 常用疏散指示标志及代



■ 订货须知 Ordering note

按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为："产品规格型号代码+防爆标志+订购数量"。例如需要消防应急标志灯，额定电压DC24/36V，数量20盏，则产品型号为：FC-BLZD-I1LROE3W-dYD-B-II-B+Ex e ib q IIC T6 Gb +20。

Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. For example, For example, the need for fire emergency signs lamp, rated voltage DC24/36V,the number of 20, the product model is:FC-BLZD-I1LROE3W-dYD-B-II-B+ Ex e ib q IIC T6 Gb +20.

应急照明灯、防爆标志灯、移动照明灯具

FC-ZFZD-E6W-CBB-J-□ 消防应急照明灯具

FC-ZFZD-E6W-CBB-J-□ Fire Emergency Lighting

应急照明灯、防爆标志灯、移动照明灯具



■ 型号含义 Model implication

FC-ZFZD-E6W-CBB-J-□

- 类型 II型：AC220V、III型： DC24/36V
  II Type:AC220V、IIIType:DC24/36V
- 设计代码 CBB-J-防爆应急灯 Design code CBB-J- explosion-proof emergency light
- 产品代码 Product code E-光源为发光二极管、W-额定功率 E-Light source for light emitting diode , W-power rating
- 类别代码 Class code Z-照明灯具、F-非持续型、Z-自带电源型、D-非集中控制型 Z-lamps and lanterns、F-Non persistent type 、Z-Comes with power supply、D-Non centralized control type
- 企业代码 Enterprise code

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等危险场所，作应急照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所；
6. 适用于-40℃以上低温环境；
7. 应急控制方式：非集中控制型；
8. 应急供电形式：自带电源型；
9. 配接设备：本公司应急照明配电箱。

1. Widely used in petroleum, oil refining, chemical, military and other dangerous environments and offshore oil platforms, oil tankers and other dangerous places for emergency lighting purposes;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places;
6. Suitable for low temperature environment above -40;
7. Emergency control mode: non centralized control type;
8. Emergency power supply form: self-contained power supply type;
9. Distribution equipment: emergency lighting distribution box of the company.

■ 主要技术参数 Main technical parameters

电压(V) Voltage	光源类型 Type of light source	功率(W) power	充电时间(h) Charging time	应急时间(min) Emergency time	外壳防护等级 Enclosure rating	应急光通量(lm) Emergency luminous flux	防爆标志 Ex-mark	进线口螺纹(G) Inlet thread	电缆外径(mm) Inlet thread
AC220 DC24/36	LED	6	24	120	IP67	50	Ex d e ib q IIC T4 Gb Ex tD ibD A21 IP66 T130℃	3/4	Φ14~Φ17

FC-ZFZD-E6W-CBB-J-□ 消防应急照明灯具
FC-ZFZD-E6W-CBB-J-□ Fire Emergency Lighting

FEICE 飞策

■ 执行标准 Featrues

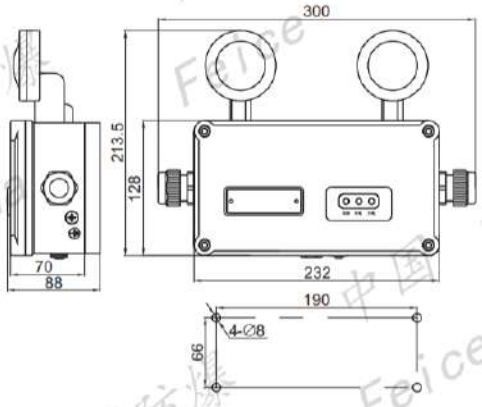
GB3836.1、GB3836.3、GB3836.4、、GB3836.7、GB12476.1、GB12476.4、GB12476.5、GB17945、GB51309、IEC60079.0、IEC60079.1、IEC61241-0、IEC61241-1。

■ 产品结构及特点 Featrues

1. 防爆型式为“隔爆增安本安充砂复合型”或“粉尘防爆型”，可在相应防爆等级的气体和粉尘环境同时存在时使用。
2. 铝合金压铸壳体，表面静电喷塑，外形美观。
3. 采用高亮度LED发光板，具有低功耗、使用寿命长、免维护等优点。
4. 内装免维护镍氢电池组，正常工作时自动充电，断电时可应急供电120分钟。
5. 设有月检功能，每月自动放电一次，应急状态维持120S，自动恢复主电状态。
6. 设有年检功能，每隔一年自动由主电状态转入应急工作状态并持续放电终止，然后恢复主电状态。
7. 高防护的结构密封设计，配装耐老化的硅橡胶密封衬垫，达到良好的防护性能。
8. 透明罩采用高强度钢化玻璃，抗冲击性能好，透光率高。
9. 所有外露紧固件为不锈钢材质。
10. 钢管或电缆布线均可。

1. Explosion-proof type "Explosion-proof safety of the sand-filled complex" or "dust explosion-proof", in the corresponding level of explosion-proof gas and dust environment exist at the same time.
2. Aluminum die-casting shell, the surface electrostatic spray, beautiful appearance.
3. Using high-brightness LED light board, with low power consumption, long life, maintenance-free advantages.
4. Built-in maintenance-free Ni-MH battery pack, the normal work of automatic charging, power failure can be emergency power supply 120 minutes.
5. With monthly inspection function, automatic discharge once a month, the emergency state to maintain 120S, automatically restore the main power state.
6. With the annual inspection function, every year from the main power state automatically transferred to the emergency work state and continue to terminate the discharge, and then restore the main power state.
7. High protection of the structural seal design, equipped with anti-aging silicone rubber gasket, to achieve good protection performance.
8. High protection of the structural seal design, equipped with anti-aging silicone rubber gasket, to achieve good protection performance.
9. All exposed fasteners are made of stainless steel.
10. Steel or cable wiring can be.

■ 外形及安装尺寸 Outline & Installation dimensions



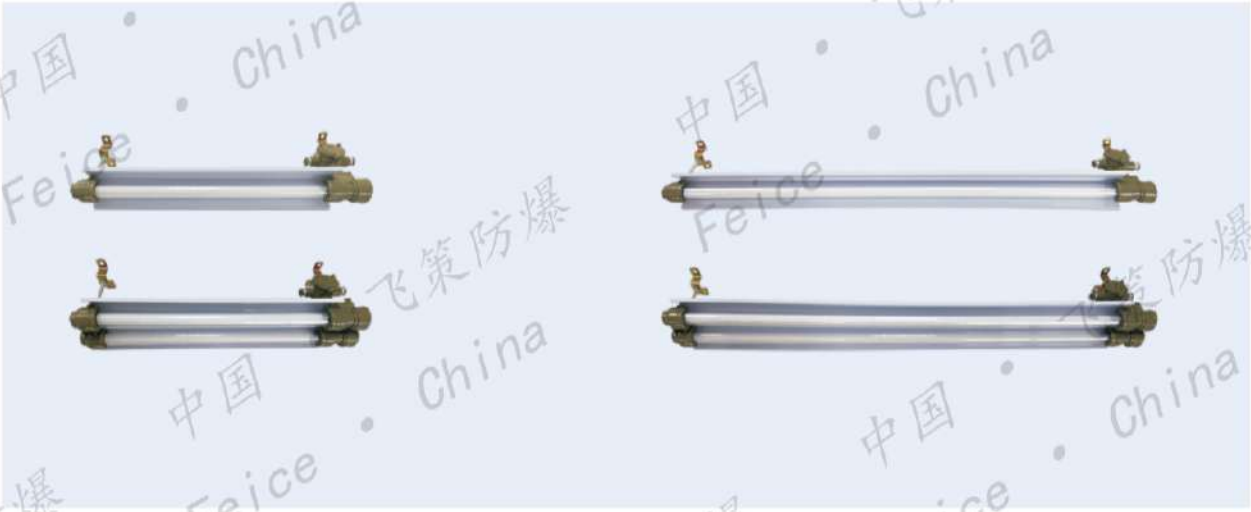
■ 订货须知 Ordering note

按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为：“产品规格型号代码+防爆标志+订购数量”。例如需要消防应急照明灯具，额定电压DC24/36V，数量20盏，则产品型号为：FC-ZFZD-E6W-CBB-J-III+Ex d e ib q IIC T4 Gb +20。

Accord with the model implication' s rules to select regularly,and Ex-mark should be added behind model implication. The template is as following:code for product model implication+Ex-mark.For example, the need for fire emergency lamp, the number of 20, rated voltage DC24 / 36V the product model:FC-ZFZD-E6W-CBB-J-III+ Ex d e ib q IIC T4 Gb +20.

dYD-系列防爆(LED)荧光灯

dYD-Series explosion-proof(LED) fluorescent lamp



■ 型号含义 Model implication

型号：dYD-规格：□-□□□□

- dYD 防爆荧光灯 Explosion-proof fluorescent lamp
- □ D-单管 Single-tube；S-双管 Bi-tube
- □ 额定功率 Rated power
- □ LED-LED灯 Lamp
- □ J-应急(不带不注)Emergency(No marking if without)
- □ G-吊杆式 Suspender type；X-吸顶式 Ceiling type；B1-壁式 30° Wall type 30°；W-弯杆式 Curved lever type；P□①-平台式 Roof garden type

①："□"代表安装形式代号，分别有：F型、G型。

"□"stands for installation forms code, there were respectively: F type, G type.

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. Widely used in oil extraction, oil refining, chemical industry, military and other dangerous environment and offshore oil platforms, oil tankers and other places for common lighting and working lighting;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places.

■ 执行标准 Accord with the standard for

GB3836.1、GB3836.2、GB3836.3、GB12476.1、GB12476.5、IEC60079-0、IEC60079-1、IEC60079-7、IEC61241-0、 IEC61241-

dYD-系列防爆(LED)荧光灯
dYD-Series explosion-proof(LED) fluorescent lamp

■ 主要技术参数 Main technical parameters

图 样 Illustation	额定功率(W) Rated Power	防护等级 Degree of protection	防爆标志 Ex-mark	防腐等级 Erosion-proof -class	电缆外径(mm) Cable outer dia.	进线口螺纹(G) Inlet thread	重量(Kg) Weight
	LED光源 LED saving	IP65 IP66②	Ex de II BT6 Gb Ex de II CT6 Gb Ex tD A21 IP66 T80℃	WF1	Φ8～Φ10	1/2	—
	9						3.0
	18						6.0

② 要求IP66，需注明。 IP66 Requirements must be marked

电 压 (V) Voltage		应急灯起动时间 (s) Starting time of emergency lamp	充电时间 (h) Charging time	应急灯照明时间 (min) Lighting time of emergency lamp
AC220	LED (AC85~265)	≤0.3	24	≥90

注：应急照明装置仅使用荧光灯中的一根灯管作为应急照明；
Note:Emergency illumination device is just used as emergency illumination in one tube of fluorescent lamp.

■ 产品结构及特点 Featrues

1. 壳体采用高强度合金铝一次性压铸成型，表面经高速抛丸清理后高压静电喷塑。外壳结构紧凑合理、材质密度高强度好、防爆性能优良，表面塑粉附着力强具有良好的防腐能力，外表光洁，美观大方；
2. 采用专利结构，快速更换灯管，灯具可根据要求配成可调节方式，在更换灯管时，可以将灯具一端放下；
3. 可根据用户要求配装应急装置，当外界断电时，灯具自动 切换到应急照明状态；
4. 钢管或电缆布线。

1. The enclosure is moulded by the high strength aluminum alloy for one time. Its exterior has sprayed with plastic by high pressure static after shot blasting at high speed. There are some advantages in the enclosure: tight structure, high density materials, great strength, fine explosion-proof functions. It has strong adhesion of plastic powder and great anticorrosive performance. The exterior is clean and beautiful.
2. It has patent structure and can replace the tubes quickly.When the tubes are replaced, it should accord with the demands to assemble to a adjustable type and can put down one end of lamp.
3. We can conform the customers' requirements to add an emergency device. If the power is cut off, it will be turned to emergency lighting automatically.
4. Wiring with steel tube or cable.

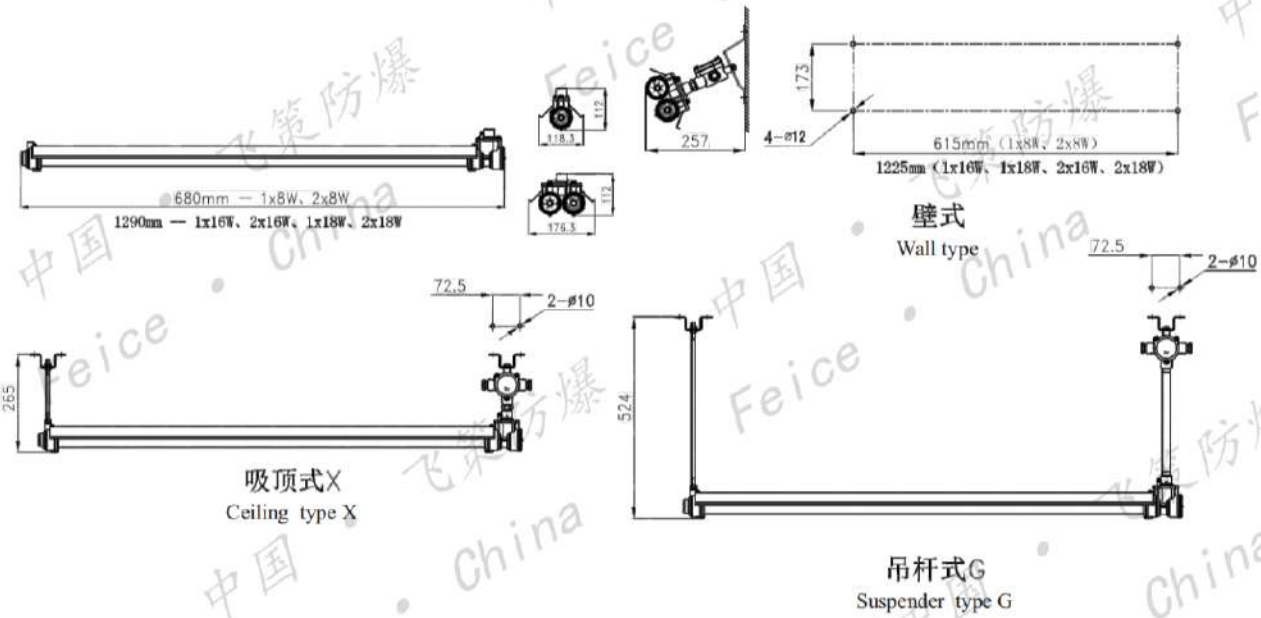


■ 产品结构展示（以 2x9W 为例） Product structure display (take 2x9W as an example)



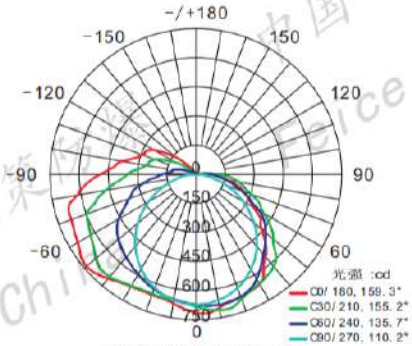
■ 外形及安装尺寸 Outline & Installation dimensions

更多安装方式及安装尺寸，见E-127/133
More installation and installation dimensions, see E-127/133



防爆荧光灯具

■ 配光曲线 Luminous distribution curve



平均光束角(50%):140.1度

36W荧光灯 Fluorescent lamp

■ 订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号-规格代码+防爆标志+订购数量”。例如需要粉尘防爆双管荧光灯36W×2吊杆式安装，订购数量20套，则产品型号规格为：“型号：dYD-规格：S-36×2GY;Ex tD A21 IP66 T80℃”；
2. 应急照明装置仅使用荧光灯中的一根作为应急照明；
3. 选定安装形式及配件见P431~P440页。
4. 如用户有特殊需求，需在订购时详细指明。

1. In accordance with the specifications of the meaning of the rules and regulations to choose one by one, and in the model specifications after the increase of explosion-proof mark. Concrete expression is: "product model - specification code + explosion -proof mark + order quantity". For example, the need to dust explosion-proof fluorescent tube 36W × 2 double-pole installation, the order number of 20 sets, the product model specifications: "Model: dYD- Specifications: S-36 × 2GY; Ex tD A21 IP66 T80 ° C ";
2. Emergency illumination device is just used as emergency illumination in one tube of fluorescent lamp.
3. Refer to pages P431~P440 for the selected mounting styles and accessories.
4. If there are some special requirements, it should be pointed as ordering.

BS51-系列防爆调光手电筒
BS51 Series explosion-proof- aiming flashlight



■ 型号含义 Model implication

BS 51 - A

- A — LED光源Lamp source
- 51 — 设计序号Design No.
- BS — 防爆调光手电筒Explosion-proof flashlight

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作巡视及移动照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for inspection and mobile lighting purposes;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places.

■ 主要技术参数 Main technical parameters

额定电压 (V) Rated voltage	额定容量 (mAh) Rated capacity	充电时间 (h) Charging time	连续放电时间(h) Discharging time	电池使用寿命(循环) Battery life (circle) (H)	防爆标志 Ex-mark	防护等级 Degree of protection	重量 (Kg) Weight	外形尺寸(mm) Outline dimensions
DC3.7	4000	8	8	~1000	Exd ⅡC T6 Gb	IP68	0.28	Φ40×225

LED光源 Bulb	工作电压(V) Work voltage	功率(W) Power	工作电流 (mA) Work current	平均使用寿命 (h) Average life
	3.3~3.5	3	700	100000

■ 执行标准 Featrues

GB3836.1、GB3836.2、GB12476.1、IEC60079-0、IEC60079-1、IEC61241-0、IEC61241-1；

BS51-系列防爆调光手电筒
BS51 Series explosion-proof- aiming flashlight

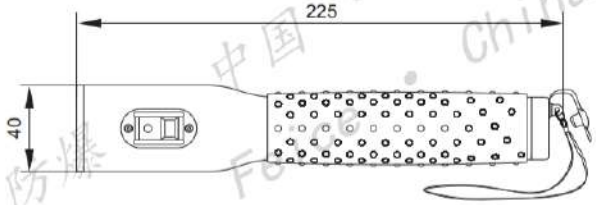
■ 产品结构及特点 Featrues

1. 高硬度铝合金外壳，表面喷砂处理以达到防滑下效果，表面整体色为银色，整体美观大方；
2. 采用磁性开关，可达到隔离防水效果。
3. 采用高能无记忆电池，容量大、寿命长、放电率低；
4. 采用特种灯泡时，其光效较高、照射距离远、显色指数高，采用特制LED光源时，光效高可达到100lm/w，能耗小，使用寿命更长。
5. 照射距离可达200米；
6. 密封性能好，体积小，重量轻。

1. It is made of aluminum alloy with high hardness. The exterior should be spraying with sand, which can reach the effect of skid proof. The global color is argent and it has beautiful appearance.
2. In the lamps, it has a magnetic switch, which have the functions of isolation and water proof.
3. It adopts high non-memory battery. There are some adva- ntages of large capacity a, long service life and low discharge rate.
4. We use a special bulb in the flashlight, which has fine lighting effect, long irradiation range and great color rendering. Using LED illuminant, the lighting effect can be reached 100 lm/w, and it has a low energy loss and a long service life.
5. The irradiation range is 200m;
6. It has great sealing performance, small volume and light weight .



■ 外形及安装尺寸 Outline & installation dimensions



■ 订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为："产品规格型号代码+防爆标志+订购数量"。例如需要隔爆型灯珠光源手电筒，订购数量20套，则产品型号为："BS51+ExdⅡCT6 Gb+20."；
2. 如用户有特殊需求，需在订购时详细指明。

1. Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. Forexample, we need the flameproof flashlight. According to those, the model implication is BS51+ Exd ⅡC T6 Gb+20.
2. If there are some special requirements, it should be pointed as ordering.

BS52-系列手提式防爆探照灯
BS52- Series portable explosion-proof searchlight



■ 型号含义 Model implication

BS 52 - A

- A — LED光源Lamp source
- 52 — 设计序号Design No.
- BS — 防爆手电筒Explosion-proof flashlight

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作巡视及移动照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高、潮湿及含有腐蚀性气体的场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for inspection and mobile lighting purposes;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. It is suitable for places requiring high protection, humidity and corrosive gases.

■ 主要技术参数 Main technical parameters

额定电压(V) Rated voltage	额定容量(mAh) Rated capacity	充电时间 (h) Charging time	连续放电时间(h) Discharging time	电池使用寿命（循环）(H) Battery life (circle)	防爆标志 Ex-mark	防护等级 Degree of protection	重量(Kg) Weight
DC3.6	6000	5	5	~1000	Exd Ⅱ CT6 Gb Ex tD A21 IP67 T80℃	IP67	1.3

LED光源 Bulb	工作电压 (V) Work voltage	功率 (W) Power	工作电流 (mA) Work current	平均使用寿命 (h) Average life
	3.3~3.5	3, 9	700	≥2000

■ 执行标准 Featrues

GB3836. 1、GB3836.2、GB12476.1、GB12476. 2、IEC60079-1、IEC61241-0、IEC61241-1；

BS52-系列手提式防爆探照灯
BS52- Series portable explosion-proof searchlight

FEICE 飞策

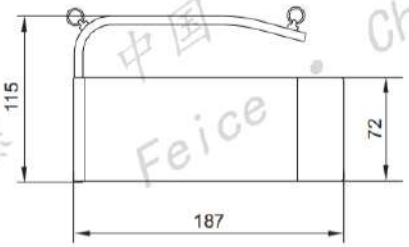
■ 产品结构及特点 Featrues

1. 高硬度铝合金外壳，表面喷砂处理，外形美观；
2. 特制灯泡、寿命长、耗能少、节能高效等特点，聚光柔和(可用于交通事故和刑事侦察现场摄影等痕迹、指纹、拍照)，光通量1200流明，射程600米，连续工作可达8小时，工作光光通量600流明，连续工作时间超过12小时；
3. 采用脉冲调光技术；
4. 采用高能无记忆环保电池，容量大、无污染、充放电性能优异、自放电率低；
5. 设有低压保护和防误操作装置，不用时可将开关锁死，正常使用后自动锁定；
6. 携带方便，可手持、肩挎等，具有良好的防水、防尘功能。

1. It is made of aluminum alloy with high hardness. the surface with sand blasting, has beautiful appearance.
2. Special lamp, long-life, low-consume, save energy and high efficient, gather lighting is soft (can be used for traffic accidents and criminal investigation at the scene photography , the marks, fingerprints, photographs etc.), luminous flux, 1200 lumen, flight range 600m, continue working time 8hours, if working luminous flux 600 lumen, continue working time over 12 hours.
3. It adopts pulse adjust technical can be chosen;
4. It adopts high-energy non-memory environmental protection batteries, big capacity, no-pollution, charge and discharge performance is excellent, low self-discharge rate;
5. With low-voltage protecting and anti-mistake equipment, the switch can be locked if no using, after normal using, it locked automaticlly;
6. Easy to carry, can be handheld, shouldered and so on, has a good water-proof, dust-proof function.



■ 外形及安装尺寸 Outline & installation dimensions



■ 订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为："产品规格型号代码+防爆标志订购数量"。例如需要手提式防爆探照灯，订购数量20套，则产品型号为："BS52＋ExdⅡCT6 Gb+20."

   Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. For example, we need the flameproof flashlight. According to those, the model implication is BS52+ExdⅡCT6 Gb+20.
2. 如用户有特殊需求，需在订购时详细指明。

   If there are some special requirements, it should be pointed as ordering.

IW5130/LT微型防爆头灯
IW5130/LT Miniature explosion-proof headlights



A型 Type　　B型(调焦) B-type(focusing)

■ 型号含义 Model implication

IW 5130/LT

微型防爆头灯 Mini explosion-proof headlights

设计序号 Desing No.

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作巡视及移动照明之用;
2. 适用于爆炸性气体环境的1区、2区;
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境;
4. 适用于可燃性粉尘环境的21区、22区;
5. 适用于防护要求较高、潮湿及含有腐蚀性气体的场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for inspection and mobile lighting purposes;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. It is suitable for places requiring high protection, humidity and corrosive gases.

■ 主要技术参数 Main technical parameters

参数名称 parameter name			单位 unit	数值 Value
额定工作电压 Rated voltage			V	3.7
额定功率 Rated power			W	3
电池额定容量 Battery rated capacity			Ah	1.8
光源 illuminant (LED)	电流 Current	强光 Glare	mA	350
		工作光 Working light		180
	光通量 Light quantity	强光 Glare	Lux	≥2400
		工作光 Working light		≥1200
	平均使用寿命 Average service life		h	≥100000
连续放电时间 Continuous discharge time	强光 Glare		h	≥4
	工作光 Working light			≥8
充电时间 Charging time			h	4~6
电池使用寿命 Battery life			循环次 Cycle times	≈1000
外观尺寸 physical dimension			mm	55×65×60
净重 weight			g	85
防爆等级 Explosion protection	Ex ib IIC T4 Gb			

IW5130/LT微型防爆头灯
IW5130/LT Miniature explosion-proof headlights

■ 执行标准 Featrues

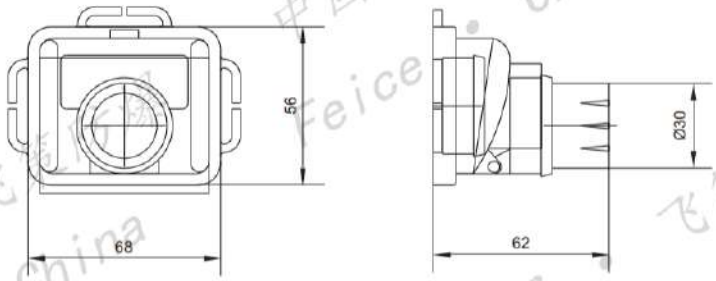
GB3836.1、GB3836.4、IEC60079.0、IEC60079.1、GB7000.1、IEC61241-0、IEC61241-1。

■ 产品结构及特点 Featrues

1. 安全防爆：本安型防爆灯具，适用于各种易燃易爆场所安全使用；
2. 高效可靠：光源采用固态免维护LED光源，光效高，寿命长达10万小时。电池采用新一代本安型、高能聚合物锂电池， 安全、环保无污染；
3. 灵活方便：人性化的头带设计，头带柔软，弹性好，长短可调；拿掉头带装上帽扣，也可用于帽配；灯头照射角度可调节，可根据现场工作需要实现光线定位；
4. 警示功能：人性化的警示灯设计，当作业中遇到紧急情况时，按压开关转换到红色的辅灯发出求救信号，确保安全；
5. 电量提示：智能化的电量显示和低电压警示功能设计，可随时查询电池电量；当电量不足时，灯具会自动提示进行充电；
6. 智能充电：充电器采用智能芯片控制充电，还有多重保护的功能。

1. Safety explosion-proof: Intrinsically safe explosion-proof lamps, suitable for all kinds of flammable and explosive places safe use;
2. Efficient and reliable: Solid-state light-free maintenance-free LED light source, high luminous efficiency, life up to 100,000 hours. The battery uses a new generation of intrinsically safe, high-energy polymer lithium battery, safety, environmental pollution;
3. Flexible and convenient: human headband design, headband soft, flexible, and adjustable length; remove the headband with hat buckle can also be used for hat with; lamp irradiation angle can be adjusted according to the work site needs to achieve light positioning ;
4. Warning function: humanized warning light design, when the operation encountered an emergency situation, press the switch to the red auxiliary lights issued a distress signal to ensure safety;
5. Power Tip: intelligent power display and low voltage warning function design, can always check the battery power; when the battery is low, the lamp will automatically prompt for charging;
6. Intelligent charging: The charger uses the intelligent chip to control the charge, and the multiple protection function.

■ 外形及安装尺寸 Outline & installation dimensions



■ 订货须知 Ordering note

按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为：“产品规格型号代码+防爆标志+订购数量”。例如需要微型防爆头灯，数量20盏，则产品型号为：IW5130/LT+Ex ib IIC T4 Gb +20。

Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. For example, For example, the need for micro-explosion-proof headlights, the number of 20, the product model: IW5130/LT+Ex ib IIC T4 Gb +20.

IW5510手提式强光防爆巡检工作灯
IW5510 portable light explosion-proof inspection work lights



A型 Type



B型(带液晶显示)
B-type (With liquid crystal display)

■ 型号含义 Model implication

IW 5510

- 5510 — 设计序号 Desing No.
- IW — 手提式强光防爆巡检工作灯 Portable light explosion-proof inspection work lights

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作巡视及移动照明之用；
2. 适用于爆炸性气体环境的0区、1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的20区、21区、22区；
5. 适用于防护要求较高、潮湿及含有腐蚀性气体的 场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for inspection and mobile lighting purposes;
2. Suitable for explosive gas environment zone 0, zone 1, zone 2;
3. Explosive atmosphere: class IIA, IIB, IIC;
4. Suitable for combustible dust environment in the area 20, 21, 22;
5. It is suitable for places requiring high protection, humidity and corrosive gas.

■ 主要技术参数 Main technical parameters

参数名称 parameter name		单位	数值
额定工作电压 Rated voltage		V	3.7
额定功率 Rated power		W	1,3
电池额定容量 Battery rated capacity		Ah	4
光源 illuminant (LED)	强光 Glare	mA	700
	工作光 Working light		300
	平均使用寿命 Average service life	h	100000
连续放电时间 Continuous discharge time	强光 Glare	h	10
	工作光 Working light		20
电池使用寿命 Battery life		h	>1000(循环)
外观尺寸 physical dimension	长 long	mm	194
	宽 width	mm	74
	高 high	mm	115
净重 weight		kg	0.5
防爆等级 Explosion protection	Ex ib IIC T4 Gb		

IW5510手提式强光防爆巡检工作灯
IW5510 portable light explosion-proof inspection work lights

FEICE 飞策

■ 执行标准 Featrues

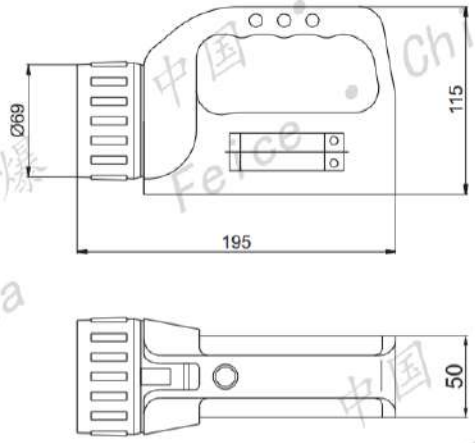
GB3836. 1、GB3836. 4、IEC60079. 0、IEC60079. 1、GB7000. 1、IEC61241-0、IEC61241-1。

■ 产品结构及特点 Featrues

1. 工作时间长，强光和工作光的连续工作时间分别在10小时、20小时以上。
2. 外壳防护等级达到IP66，确保灯具在各种恶劣的条件下可靠使用。
3. 外壳采用进口防弹胶材料，强度高，抗冲击性能好。
4. 灯具重量轻，可手持、吊挂、卡扣等多种携带方式，同时具有磁力吸附，使用方便。
5. 人性化的电量指示和低电压警示功能设计，可随时检测电池电量；当电量不足时，灯具会自动提示进行充电。
6. 大空间提手和大按钮设计，在冬季穿戴厚手套时仍能方便携带及操作灯具。
7. 工作光、强光两种光设计，按动按钮可进行自由转换。冷白、暖白两种不同色温的光源，用户可根据实际需要进行选择。

1. Working time is long, bright light and working light of the continuous working time in 10 hours, 20 hours or more.
2. Enclosure protection class IP66, to ensure that the lamps in a variety of harsh conditions and reliable use.
3. Shell the use of imported bullet-proof plastic material, high strength, good impact resistance.
4. Light weight, can be hand-held, hanging, buckle and other portable means, while a magnetic adsorption, easy to use.
5. User-friendly battery indication and low-voltage warning function design, can always detect the battery power; when the battery is low, the lamp will automatically prompt for charging.
6. Large space handle and large button design, wear thick gloves in winter can still be easy to carry and operate lamps.
7. Work light, light two kinds of light design, press the button can be freely converted. Cool white, warm white light source of two different color temperature, the user can choose according to actual needs.

■ 外形及安装尺寸 Outline & installation dimensions



■ 订货须知 Ordering note

按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为：“产品规格型号代码+防爆标志+订购数量”。例如需要手提式强光防爆巡检工作灯，数量20盏，则产品型号为：IW5510+ Ex ib IIC T4 Gb +20。

Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. For example, For example, the need for portable light explosion-proof inspection work lights, the number of 20, the product model: IW5510 + Ex ib IIC T4 Gb +20.

JM7300微型防爆手电筒
JM7300 miniature explosion-proof flashlight



■ 型号含义 Model implication

JM 7300

微型防爆手电筒 Micro explosion-proof flashlight

设计序号 Desing No.

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作巡视及移动照明之用；
2. 适用于爆炸性气体环境的0区、1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的20区、21区、22区；
5. 适用于防护要求较高、潮湿及含有腐蚀性气体的 场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for inspection and mobile lighting purposes;
2. Suitable for explosive gas environment zone 0, zone 1, zone 2;
3. Explosive atmosphere: class IIA, IIB, IIC;
4. Suitable for combustible dust environment in the area 20, 21, 22;
5. It is suitable for places requiring high protection, humidity and corrosive gas.

■ 主要技术参数 Main technical parameters

参数名称 parameter name		单位	数值
额定工作电压 Rated voltage		V	3.7
额定功率 Rated power		W	1
电池额定容量 Battery rated capacity		Ah	2.2
光源 Light source (LED)	电流 Current	mA	300
	光通量 Light quantity	lm	≥138
	平均使用寿命 Average service life	h	≥100000
电池使用寿命 Battery life		循环/次 Cycle / time	≥1000
连续放电时间 Continuous discharge time		h	≥8
充电时间(电池耗尽后) Charging time(After the battery runs out)		h	≤16
外形尺寸 physical dimension	直径 diameter	mm	28
	长度 length	mm	128
工作模式 work pattern	强光亮度(5米) Brightness (5m)	lux	≥130
	弱光亮度(1米) Low light intensity (1 m)	lux	≥150
	闪光频率 Flash frequency	Hz	8-10
防爆等级 Explosion protection class	Ex ib IIC T4 Gb		
防护等级 Explosion protection	IP68		

JM7300微型防爆手电筒
JM7300 miniature explosion-proof flashlight

FEICE 飞策

■ 执行标准 Featrues

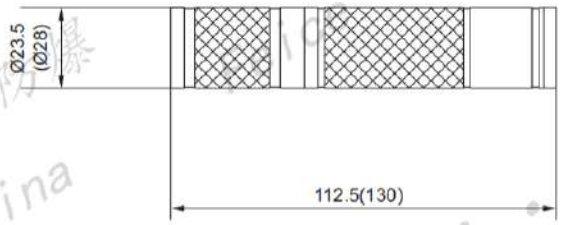
GB3836. 1、GB3836. 4、IEC60079. 0、IEC60079. 1、GB7000. 1、IEC61241-0、IEC61241-1。

■ 产品结构及特点 Featrues

1. 防爆性能：完全按照国家防爆标准设计生产，最高防爆等级，具有优良的防爆性能及防静电效果，可在各种易燃易爆场所安全工作；
2. 高效可靠：特制的锂电池，体积小、容量大、无记忆、自放电率低、循环寿命长，是理想的电源选配装置；
3. 实用节能：光源采用美国原装进口3WLED光源，发光效率高，光通量≥138Lm，光源寿命达到100000小时。色温为6000K光色呈白色，聚光效果良好，照射距离远；
4. 设计新颖：发光强度设计为强弱两挡，使用与不同工作环境，同时还具备频闪功能；
5. 防水耐用：本款微型防爆强光手电采用航空专用铝材（6063），使微型防爆强光手电的重量更轻，外壳更坚固，确保产品能承受强力撞击和冲击，表面采用优质阳极氧化处理，表面美观大方，可有效提高耐磨、防腐性能；
6. 方便灵活：开关采用单按键循环工作模式，使用更方便。

1. Explosion-proof performance: in full accordance with national standards of explosion-proof design and production, the highest explosion-proof level, with excellent anti-static performance and anti-static effect, in a variety of flammable and explosive places safe work;
2. Efficient and reliable: special lithium battery, small size, large capacity, no memory, low self-discharge, long cycle life, is the ideal power supply matching device;
3. Practical energy: light source using the original US imports 3WLED light source, high luminous efficiency, luminous flux ≥ 138Lm, light source life of 100,000 hours. Color temperature is 6000K light color was white, condenser effect is good, long-range irradiation;
4. Design novel: luminous intensity design for the strength of the two-block, use and different working environment, but also have stroboscopic function;
5. Waterproof and durable: This mini-explosion-proof flashlight uses aviation special aluminum (6063), so that micro-explosion-proof light flashlight lighter, more robust shell to ensure that products can withstand strong impact and impact, the surface of high quality anodizing, The surface beautiful and generous, can effectively improve the wear and corrosion resistance;
6. Convenient and flexible: switch using a single button cycle mode, the use of more convenient.

■ 外形及安装尺寸 Outline & installation dimensions



注：括号内为B型尺寸。
Note: B-type dimensions are enclosed in brackets.

■ 订货须知 Ordering note

按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为："产品规格型号代码+防爆标志+订购数量"。例如需要微型防爆手电筒，数量20盏，则产品型号为：JM7300+ Ex ib IIC T4 Gb +20。

Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. For example, the need for micro-explosion flashlight, the number of 20, the product model: JM7300 + Ex ib IIC T4 Gb +20.

MSL4700多功能袖珍防爆信号灯
MSL4700 multifunction pocket explosion-proof lights



A型 Type



B型(带液晶显示、磁力吸附)
B-type (With liquid crystal display/Magnetic adsorption)

■ 型号含义 Model implication

MSL 4700

- 4700 — 设计序号 Desing No.
- MSL — 多功能袖珍防爆信号灯 Multi-functional pocket explosion-proof lights

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作巡视及移动照明之用；
2. 适用于爆炸性气体环境的0区、1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的20区、21区、22区；
5. 适用于防护要求较高、潮湿及含有腐蚀性气体的 场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for inspection and mobile lighting purposes;
2. Suitable for explosive gas environment zone 0, zone 1, zone 2;
3. Explosive atmosphere: class IIA, IIB, IIC;
4. Suitable for combustible dust environment in the area 20, 21, 22;
5. It is suitable for places requiring high protection, humidity and corrosive gas.

■ 主要技术参数 Main technical parameters

参数名称 parameter name		单位 unit	数值 Value
额定工作电压 Rated voltage		V	3.7
额定容量 Rated capacity		Ah	4.4
光源 illuminant (LED)	灯头照明光源 Lamp lighting source	W	3
	灯尾警示光源 Light tail warning light source	W	0.1
	平均使用寿命 Average service life	h	≥100000
连续放电时间 Continuous discharge time	主光源 Main light source	h	≥24
	灯尾 Lamp tail	h	≥12
充电时间 Charging time		h	8
电池使用寿命 Battery life		循环 cycle	1500次
外形尺寸 physical dimension	长×宽×高 L×W×H	mm	195×75×115
防爆标志 Explosion protection	Ex ib IIC T4 Gb		

■ 执行标准 Featrues

GB3836.1、GB3836.4、IEC60079.0、IEC60079.1、GB7000.1、IEC61241-0、IEC61241-1。

MSL4700多功能袖珍防爆信号灯
MSL4700 multifunction pocket explosion-proof lights

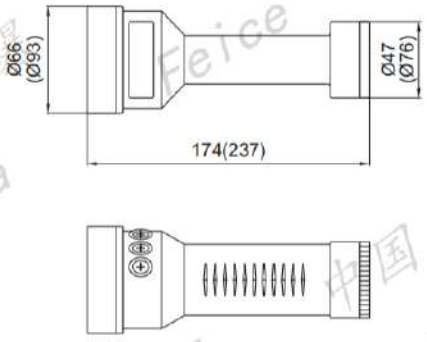
FEICE 飞策

■ 产品结构及特点 Featrues

1. 高效可靠：充电电池采用高能无记忆锂电池，容量高、充放电性能好、自放电率低，经济环保、可循环使用无污染，绿色节能光源，从而达到环保要求。
2. 光效节能：选用进口新型超高亮度大功率LED固态光源，节能、 光效高、使用寿命长、免维护，无需后续使用成本。
3. 信号功能：采用编程IC控制电路、按钮式开关，操作简单方便。灯具头部和尾部分别配置有白色照明光源和警示光源，即可为各种工作现场提供连续10小时以上的移动工作照明或应急照明，又能在工作时向身后发出警告以消除危险或隐患。
4. 经济节能：耗电量仅为相同光通量白炽灯的20%。强光连续照明时间超过10小时，工作光连续照明时间超过20小时，免除频繁充电的烦恼，满足长时间当班工作的需要。
5. 防水耐用：特殊的密封结构、优质的抗冲PC材料和轻质高硬度合金外壳，抗静电表面处理，防静电、防水、防震、耐腐蚀性好，确保能在各种恶劣环境和气候条件下正常工作。
6. 智能保护：电路经过优化设计具有放电保护功能，可防止电池过放，确保电路不会发生短路等故障；智能型充电器设有过充、短路保护和充电显示系统，可有效的延长电池的使用寿命。外形美观、结构紧凑，重量轻，携带和操作方便。

1. Efficient and reliable: high-energy rechargeable battery without memory lithium battery, high capacity, good charge and discharge performance, low self-discharge, economic environment, can be recycled non-polluting, green energy-saving light source, so as to achieve environmental requirements.
2. Light efficiency: the choice of imported new ultra-high brightness high-power LED solid-state light source, energy saving, high luminous efficiency, long life, maintenance-free, no follow-up costs.
3. Signal function: Uses the programming IC control circuit, the button type switch, the operation is simple and convenient. Lighting head and tail are equipped with a white light source and the warning light source, can work for a variety of workplace for more than 10 hours of continuous work or emergency lighting mobile work, but also at work to warn the future to eliminate the danger or hidden dangers.
4. Economic energy saving: power consumption is only 20% of the same luminous flux incandescent lamp. Continuous light for more than 10 hours, the work of light for more than 20 hours of continuous lighting, eliminating the trouble of frequent charging to meet the needs of a long shift work.
5. Waterproof and durable: special sealing structure, high-quality impact PC materials and lightweight high-hardness alloy shell, antistatic surface treatment, anti-static, waterproof, shockproof, good corrosion resistance, to ensure that in a variety of harsh environments and climatic conditions normal work.
6. Intelligent protection: the circuit has been optimized to protect the discharge function, to prevent the battery over-discharge, to ensure that the circuit does not occur short-circuit fault; intelligent charger with overcharge, short circuit protection and charging display system, can effectively extend the battery life. Beautiful appearance, compact structure, light weight, portable and easy to operate.

■ 外形及安装尺寸 Outline & installation dimensions



注：括号内为B型尺寸。
Note: B-type dimensions are enclosed in brackets.

■ 订货须知 Ordering note

按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为：“产品规格型号代码+防爆标志+订购数量”。例如需要微型防爆手电筒，数量20盏，则产品型号为：MSL4700+ Ex ib IIC T4 Gb +20。

Accord with the model implication' s rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. For example, For example, the need for miniature explosion-proof flashlight, the number of 20, the product model is: MSL4700+ Ex ib IIC T4 Gb +20。

ABSg-系列防爆视孔灯
ABSg-Series explosion-proof tank inspection lamp



■ 型号含义 Model implication

ABS g -□ /□ □

- 防爆 Explosion-proof
- 视孔灯 Tank inspection lamp
- 额定功率 Rated power
- 电压Voltage
- A-普通型 Common type
- JA-聚光A型 Spot light A type
- JB-聚光B型 Spot light B type
- K-开关型 Switch type
- Y-延时型 Delay type

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险场所，供局部观察照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. Widely used in oil extraction, oil refining, chemical, military and other dangerous places for local observation lighting purposes;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places.

■ 主要技术参数 Main technical parameters

图 样 Illustration	类型 Type	额定电压(V) Rated Voltage	光源 Lamp source	功率(W) Power	防爆标志 Ex-mark	灯 座 Lamp holder	进线口螺纹(G) Inlet therad	重量(Kg) Weight
	普通型 Common type	220①, 24, 36	节能灯 Energy-saving lamp	≤20②	Exd Ⅱ BT6 Gb Exd Ⅱ CT6 Gb Ex tD A21 IP66 T80℃	E27	3/4	1.5
	聚光型 Spot light type	220①, 12	卤钨灯 Tungsten halogen lamp	35 50	Exd Ⅱ BT3 Gb Exd Ⅱ CT3 Gb Ex tD A21 IP66 T195℃/ T130℃	GY6.35	3/4	2.0
	LED型 LED type	220	LED	2, 3, 5, 9	Exd Ⅱ BT6 Gb Exd Ⅱ CT6 Gb Ex tD A21 IP66 T80℃	—	1/2	1.2

ABSg-系列防爆视孔灯
ABSg-Series explosion-proof tank inspection lamp

防护等级 Degree of protection	防腐等级 Erosion-proof class	G1/2电缆外径(Φmm) Cable outer dia	G3/4电缆外径(Φmm) Cable outer dia
IP65 IP66④	F1	Φ6～Φ10mm	Φ10～Φ14mm

① 额定电压非AC220V时，需注明，The rated voltage of AC220V, need to specify.
② 灯管形状仅限于飞利浦螺旋形，Tube shape is limited to philips spiral.
③ 通电后5分钟，自动切断电源，Five minutes after the power supply, automatic cut off power supply.
④ 要求IP66，需注明，IP66 Requirements must be marked.

■ 执行标准 Accord with the standard for

GB3836.1、GB3836.2、GB12476.1、GB12476.5、IEC60079-0、IEC60079-1、IEC61241-0、IEC61241-1；

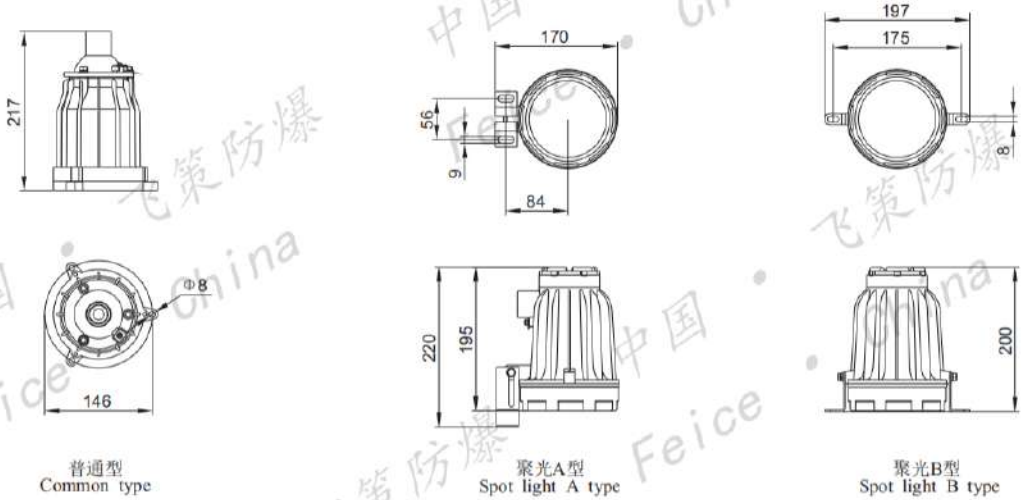
■ 产品结构及特点 Featrues

1. 高强度合金铝一次性压铸成型，表面经高速抛丸处理后高压静电喷塑，塑粉附着力强，防腐性能好，外形美观；
2. 钢化玻璃罩，透光性好，不锈钢外露紧固件；
3. 聚光型内置电子式调压器及12V卤钨灯，灯具输入为220V或直接为12V电源，卤素灯具有光效高，显色指数高等优点；
4. 电缆布线；

1. The enclosure is made of aluminum alloy. It is moulded by the high strength aluminum alloy for one time, which has high strength, fine explosion-proof functions. Its exterior has sprayed with plastic by high pressure static after shot blasting at high speed, which has great corrocion proof and beautiful appearance.
2. The toughened glass cover has great transmittance. Outer fasteners are made of stainless steel.
3. In the spotlight, there are electronic regulator and tungsten halogen lamp of 12V. It has some advantages as following: the lamp voltage output 220V, power voltage 12V, fine light effect, high color rendering index and so on.
4. Wiring with cables.



■ 外形及安装尺寸 Outline & Installation dimensions



普通型 Common type　　聚光A型 Spot light A type　　聚光B型 Spot light B type

■ 订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为："产品规格型号代码+防爆标志+订购数量"。例如需要粉尘防爆视孔灯聚光JA型35W电压为12V，订购数量20套，则产品型号为："ABSg-35/12JA+ Ex tD A21 IP66 T130℃."
2. 如用户有特殊需求，需在订购时详细指明。

1. Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication+Ex-mark. For example, we need the dust explosion-proof tank inspection lamp with spotlight type JA, power 35W and voltage 12V. The model implication is ABSg-35/12JA+ Ex tD A21 IP66 T130℃.
2. If there are some special requirements, it should be pointed as ordering.

FCBJ-系列防爆声光报警器
FCBJ- Series explosion-proof acoustic-optic annunciator



■ 型号含义 Model implication

型号:FCBJ - 规格:□ □ □ □ □

- 防爆声光报警器
- 工作电压
- X-吸顶式
- G-吊杆式
- Z-座式
- R-红
- B-蓝
- Y-黄
- E-LED
- I-I型
- III-III型

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等危险场所作事故信号报警或作为讯号指示用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other dangerous places for the accident signal alarm or as a signal indication;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places.

■ 主要技术参数 Main technical parameters

类型 Type	额定电压 rated voltage (V)	功率 power (W)	闪光频率 Flash frequency (/min)	声音强度 Sound intensity (dB)	防护等级 Protection level	防爆标志 Explosion-proof marks	进线口螺纹 Inlet thread (G")	电缆外径 Cable outer diameter (mm)	重量 weight (kg)
I	DC24	8	150	≥110	IP65	Ex d e ib ⅡB T6 Gb Ex d e ib ⅡC T6 Gb Ex tD ibD A21 IP65 T80℃	3/4	φ10～φ14	3.3
	AC220	12							
III	DC24	5		≥90			1/2	φ7～φ10	1.1
	AC220	8							
IV	AC6、220	8		无			3/4	φ10～φ14	
	AC220	200	静止型	无					

FCBJ-系列防爆声光报警器
FCBJ- Series explosion-proof acoustic-optic annunciator

■ 执行标准

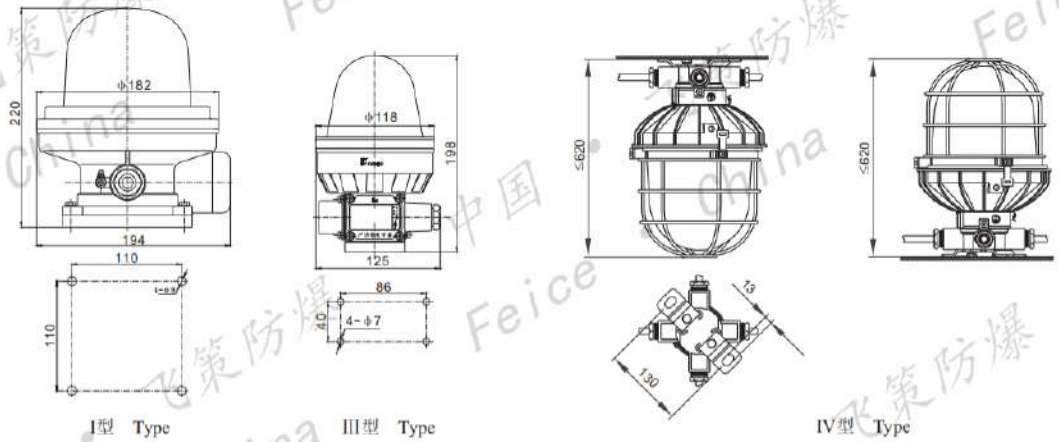
GB3836.1、GB3836.2、GB3836.3、GB3836.4、GB12476.1、GB12476.4、GB12476.5。

■ 产品特点

1. 铝合金压铸壳体，表面静电喷塑，外形美观。
2. 外置蜂鸣器，声音大，传播远。
3. 内装带有频闪的发光器，可远距离传播警示光束。
4. 内部导线采用OT接线端子冷压接，并穿有套管进行绝缘处理，接线端子采用专用带防松瓦垫紧固，确保电气性能的稳定性。
5. Ⅰ型透明罩材质为高强度钢化玻璃，Ⅲ型透明罩材质为聚碳酸酯，抗冲击性能好，透光率高。
6. 所有外露紧固件为不锈钢材质。

1. Die-cast aluminum alloy shell with static spraying, beautiful appearance.
2. External buzzer, loud and distant.
3. Equipped with a stroboscope, it can transmit warning light for a long distance.
4. Internal conductors shall be cold-pressed by OT terminals and insulated with sleeve, and the terminals shall be tightened with special anti-loose tile pad to ensure the stability of electrical performance.
5. I transparent cover is made of high strength of toughened glass, Ⅲ type transparent cover is made of polycarbonate, good shock resistance, high light transmittance.
6. All exposed fasteners are made of stainless steel.

■ 外形及安装尺寸 Outline & Installation dimensions



Ⅰ型 Type　　Ⅲ型 Type　　Ⅳ型 Type

■ 订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为："产品型号-规格代码+防爆标志+订购数量"。例如需要复合型ⅡC级，电压DC24V，座式安装的红色声光报警器，Ⅰ型， 数量20套，则订货为：FCBJ-ZDC24VREⅠ+Ex d eibⅡC T6 Gb+20。
2. 选定安装形式及配件见灯具选型手册中P431~P440页。
3. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of model and specification, and add the explosion-proof mark after the meaning of model and specification. Specific expression is: "product model - specification code + explosion-proof mark + order quantity". Need complex Ⅱ C level, for example, the voltage DC24V, red sound and light alarm, the type of the installation Ⅰ type, the number 20 sets, the order is: FCBJ-ZDC24VREⅠ+Ex d eibⅡC T6 Gb+20.
2. Please refer to P431~P440 pages in the lamp selection manual for the installation form and accessories.
3. Special requirements should be specified when ordering.

BHZD防爆航空闪光障碍灯
BHZD Explosion-proof aeronautic flashing lamp



■ 型号含义 Model implication

型号:BHZD - 规格:□ □ □

- BHZD 防爆航空闪光障碍灯 Explosion-proof aeronautic flashing lamp
- 第1□: E-低光强(LED) Low light intensity; C-中光强(LED) In the light intensity; G-高光强(氙气灯) High light intensity (xenon lamp)
- 第2□: T-无线同步 Wireless synchronous; Y-有线同步 Wired synchronous
- 第3□: S-带太阳能装置(不要求不注) S-With solar energy device (does not require no note)

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作作为警示信号之用；
2. 适用于高层建筑、钻井平台、高大设施上及高大储油设施区建筑物上，作航空障碍指示用。
3. 适用于爆炸性气体环境的1区、2区；
4. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
5. 适用于可燃性粉尘环境的21区、22区；
6. 适用于防护要求较高，潮湿的场所。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places as a warning signal purposes;
2. Applicable to high-rise buildings, drilling platforms, tall facilities and tall oil storage facilities on the building, the instructions for the use of aviation obstacles.
3. Suitable for explosive gas environment zone 1, zone 2;
4. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
5. Suitable for combustible dust environment in the area 22, 21;
6. Suitable for high protection requirements, damp places.

■ 主要技术参数 Main technical parameters

型号 Type	光源类型 Luminaries	额定电压(V) Rated Voltage	功率(W) Power	峰值光强 Rated Power	闪光频率 Flash frequency	发光颜色 Emitting color	防腐等级 Erosion-proof class
BHZD-E	发光二极管LED luminous diode	AC220	<8	>200cd	20~60次/分 20~60 times/minutes	红色 Red	WF1
BHZD-C			<40	>2000cd			
BHZD-G	氙气灯 Xenon lamp		<20	>20000cd			

环境温度 Environment temperature	防爆标志 Ex-mark	防护等级 Degree of protection	电缆外径(mm) Cable outer dia.	进线口螺纹(G) Inlet thread	重量(Kg) Weight
-40℃～+70℃	ExdⅡB/ⅡCT6 Gb Ex tD A21 IP66 T80℃	IP65	Φ10～Φ14	3/4	4.5

■ 执行标准 Featrues

GB3836.1、GB3836.2、GB12476.1、GB12476.5、IEC60079-0、IEC60079-1、IEC61241-0、IEC61241-1；

BHZD防爆航空闪光障碍灯
BHZD Explosion-proof aeronautic flashing lamp

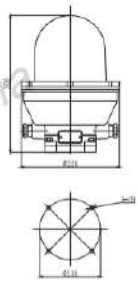
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■ 产品结构及特点 Featrues

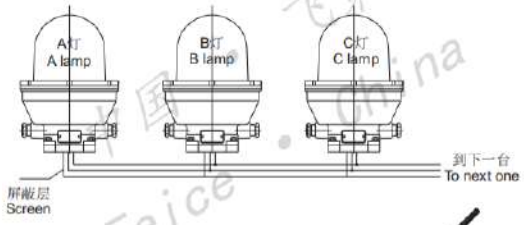
1. 外壳为高强度铝合金一次性压铸成型，强度高，结构好，防爆性能卓越。表面经过高速抛丸处理后，再高压静电喷塑，塑粉附着力强，防腐性能好；
2. 铸造成型，结构紧凑，外形美观；
3. 采用高亮度LED灯，具有低功耗、寿命长(10万小时)、免维护等特点；
4. 使用自动光控开关控制，可靠性强，夜晚和多雾时自动开启，白天自动关闭；
5. 若需要多台障碍灯联机工作，只需将同步信号线连在一起，即能实现同步闪烁，也可根据用户要求，提供集中控制器；
6. 钢管或电缆布线。
7. 可配太阳能电池板为高性能太阳能电池板，将光能转换为电能，在亮度不小于10lx的情况均能正常转换，即使阴雨天也能正常转换并储存；此板安装时应注意无遮挡物向阳光照射面安装，并应固定可靠；控制箱内装有储能高性能无记忆电池组，规格为12V/0.7Ah，并装有预定控制电路，使障碍灯在白天光能转换为电能后一次放电点亮灯具达15小时以上，完全满足各种场所使用要求；注意三防控制箱安装时，请水平放置。

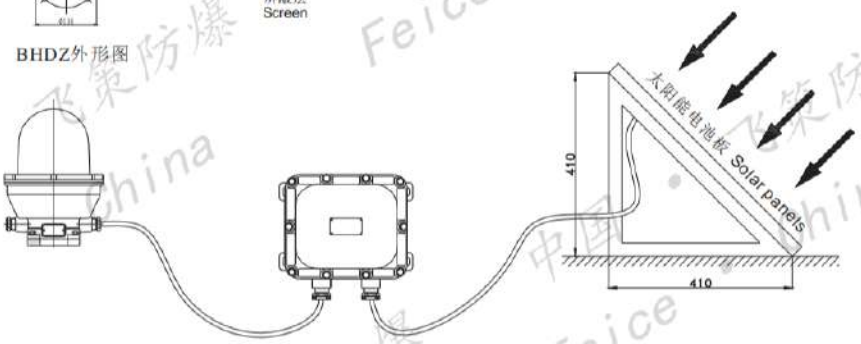
1. The enclosure is moulded by the high strength aluminum alloy for one time. Its exterior has sprayed with plastic by high pressure static after shot blasting at high speed. There are some advantages in the enclosure: tight structure, high density materials, great strength, fine explosion-proof functions. It has strong adhesion of plastic powder and great anticorrosive performance. The exterior is clean and beautiful;
2. Casting forming, compact structure, beautiful appearance;
3. Using high brightness LED lamp, with low consumption, long service life (100,000 hours), mianweihu characteristic;
4. Automatic optic control switch can turn on when at night or much fog condition, it turns off at daylight;
5. It converts bulb automatically, inspection fault and alarm automatically, when the sixth bulb works, the carrier wave system will flick and send out sound&optic alarm signal to prompt change new bulb;
6. Wiring with steel tube of cable.
7. Can match solar panels for high-performance solar panels, will light conversion into electricity and no less than in brightness 10lx situation all can normal conversion, even YinYuTian can also normal conversion and stored, This plate installation should be paid attention to when things without sunscreen, to sunlight surface installation, and should be fixed and reliable; Control box containing energy storage batteries, high-performance no memory specification for 12V / 0.7 Ah, and equipped with reservation control circuit, make the obstacle lights in the daytime light conversion for electric power after a discharge lamps and lanterns lit up to 15 hours above, completely satisfy various places use requirement, Note three proofing control box when installation, please level placed;

■ 外形及安装尺寸 Outline & Installation dimensions



BHDZ外形图





太阳能 Solar

■ 订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为："产品型号-规格代码+防爆标志+订购数量"。例如需要粉尘防爆航空闪光障碍灯，订购数量20套，则产品型号规格为："型号：BHZD +规格：Ex tD A21 IP66 T80℃."
2. 如用户有特殊需求，需在订购时详细指明。

1. In accordance with the specifications of the meaning of the rules and regulations to choose one by one, and in the model specifications after the increase of explosion-proof mark. Concrete expression is: "product model - specification code + explosion-proof mark + order quantity". Such as the need for dust explosion-proof aviation flash obstruction lights, the number of 20 sets of orders, the product model specifications: "Model: BHZD +Specifications: Ex tD A21 IP66 T80 ℃.
2. If there are some special requirements, it should be pointed as ordering.

BAD63-A系列太阳能防爆路灯

BAD63-A Series solar explosion-proof street light



适用范围 Applications

1. 广用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所 普通照明及作业照明之用；
2. 适用于照明节能改造项目及检修更换困难的场所；
3. 适用于爆炸性气体环境的 1 区、 2 区；
4. 适用于Ⅱ A 、Ⅱ B 、Ⅱ C 类爆炸性气体环境；
5. 适用于可燃性粉尘环境的 21 区、 22 区；
6. 适用于防护要求较高，潮湿的场所；
7. 适用于— 40 ℃以上低温环境。

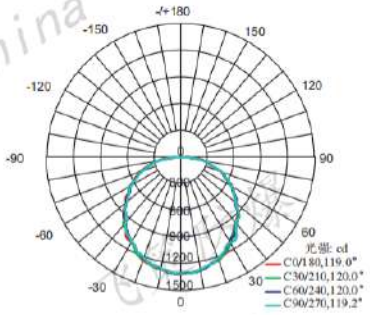
1. Widely used in hazardous environments such as oil exploration, refining, chemical, military and Offshore oil platforms, oil tankers, etc. General lighting and work lighting use;
2. Applicable to lighting energy-saving renovation projects and places where maintenance and replacement is difficult;
3. Applicable to Zone 1 and Zone 2 of explosive gas environment;
4. Applicable to IIA, IIB, IIC explosive gas environment;
5. Applicable to areas 21 and 22 of flammable dust environment;
6. Applicable to places with high protection requirements and humidity;
7. Suitable for low temperature environments above -40 °C.

型号规格含义

BAD 63-A □ □ S

- 太阳能 Solar Energy
- 额定功率 Rated Power
- 路灯型式 Street Light Type
  - A-单臂 Single arm
  - B-双臂等长 Arm length
  - C-双臂不等长 Unequal length of arms
- 多颗LED Multiple LED
- 设计序号 Design Number
- 灯具类 Lamps
- 防爆 Explosion proof

配光曲线 Luminous distribution curve



主要技术参数 Main technical parameters

执行标准 Executive standard	GB3836.1、GB3836.2、GB12476.1、GB12476.5
防爆标志 Explosion-proof mark	Ex d ⅡC T6 Gb, Ex tD A21 IP66 T80℃
额定电压 Rated voltage	DC12V、DC24V
额定功率 Rated Power	20W、30W、40W、50W
防护等级 Protection Level	IP65 、 IP66
防腐等级 Anti-corrosion Grade	WF1、WF2
引入装置 Introduction Device	G3/4″
适用电缆外径 Applicable Cable Outer Diameter	Φ 10 ～Φ 14mm
安装方式 Installation Method	路灯式 Street light

防爆高效节能灯具

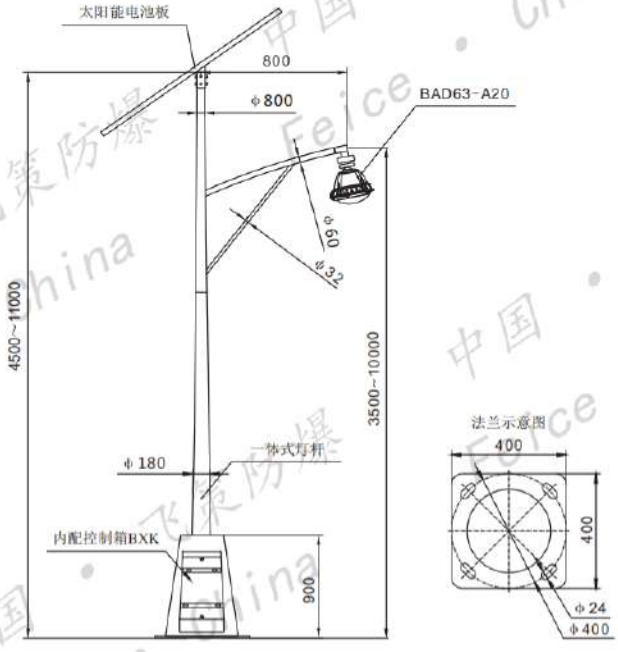
BAD63-A系列太阳能防爆路灯
BAD63-A Series solar explosion-proof street light

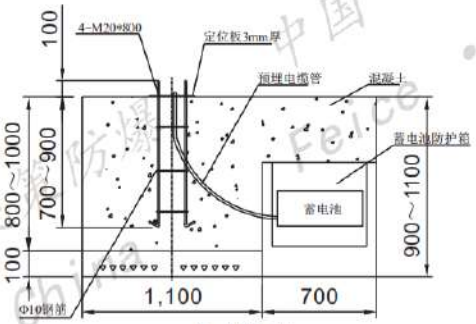
产品结构及特点 Featrues

1. 路灯由太阳能组件、智能路灯控制器、(地埋)免维护蓄电池、BAD63防爆灯具、灯杆等构件组成。太阳能组件通常为DC12V、DC24单晶硅板或多晶硅太阳能电池片串并联，用钢化玻璃、EVA及TPT热压密切封而成，周边加装铝合金边框，具有抗风、抗冰雹能力强，光转换率大于90%。灯具为普通工业照明灯具和防爆灯具、优质钢板焊接而成灯杆、安装于灯杆底部基座内的智能路灯控制器、埋于地面内免维护蓄电池等部件组成。
2. 主要工作原理:太阳能电池组件在白天将太阳能辐射转换成电能，向免维护蓄电池充电，晚上由蓄电池给光源负载(防爆灯具)提供电力，光源(防爆灯具)在天时由路灯智能控制器设定自动点亮防爆灯具，智能路灯控制器具有过充、过放、进行保护，并对防爆灯具的开启 和点亮时间进行控制。

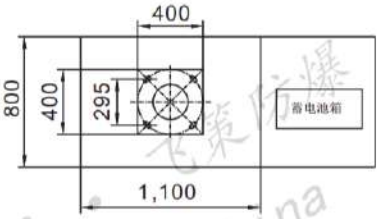
1. Street lamps are composed of solar modules, intelligent street lamp controllers, (buried) maintenance-free batteries, BAD63 explosion-proof lamps, lamp poles and other components. The solar modules are usually DC12V, DC24 monocrystalline silicon plates or polycrystalline silicon solar cells in series and parallel. They are tightly sealed with tempered glass, EVA and TPT. The aluminum alloy frame is installed around the periphery, which has strong wind and hail resistance. The conversion rate is greater than 90%. The lamps are composed of common industrial lighting fixtures and explosion-proof lamps, welded poles made of high-quality steel plates, intelligent street lamp controllers Installed in the base of the bottom of the poles, and maintenance-free batteries buried in the ground.
2. Main working principle: The solar cell module converts solar radiation into electric energy during the day, and charges the maintenance-free battery. At night, the battery supplies power to the light source load (explosion-proof lamps). The light source (explosion-proof lamps) is set by the street lamp intelligent controller in the daytime. Automatically Illuminate the explosion-proof lamps, the intelligent street lamp controller has overcharge, over discharge, protection, and control the opening and lighting time of the explosion-proof lamps.

外形及安装尺寸 Outline & Installation dimensions





基础侧视图



基础俯视图

订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号-规格代码+防爆标志+订购数量”。例如需要隔爆型路灯灯30W，数量20套，则订货为：“型号：BAD63-规格：20P+Ex d ⅡC T6 Gb+20”。
2. 选定安装形式及配件见灯具选型手册中P431~P440页。
3. 如有特殊需求，需在订购时详细指明。

1. Select one by one according to the rules in the meaning of the model specifications, and add the explosion-proof mark after the meaning of the model specification. The specific embodiment is: "product model - specification code + explosion-proof mark + order quantity". For example, if the explosion-proof street light is 30W and the number is 20 sets, the order is: "Model: BAD63-Specification: 20P+Ex d IIC T6 Gb+20".
2. For the selected installation form and accessories, see P431~P440 in the Lamp Selection Manual.
3. If there are special needs, please specify in the order.

□ AD62-系列防爆灯
□ AD62- Series explosion-proof lamp



■ 型号规格含义 Model specification implication

型号：□AD 62－规格：□□ □ □ □

- B-ⅡB类防爆或粉尘防爆 / B-class ⅡB explosion or dust explosion-proof
- C-ⅡC类防爆 Class ⅡC explosion-proof
- 防爆灯具类 Explosion-proof lamp
- 设计序号 Design No.
- G-高压汞灯 High pressure Hg lamp
- Z-自镇汞灯 Mercury self vapor lamp
- N-高压钠灯 High pressure sodium lamp
- L-金卤灯 Metal halide lamp
- H-节能灯 Energy-saving lamp
- 额定功率 Rated power
- S-带灯伞(不要求不注) / S-With lamp umbrella(no marking without requirement)
- H-带分线盒 With junction box
- Z-带镇流器 With ballast
- Y-一体式 Integrational lamp
- G-吊杆式 Suspender type
- X1-吸顶式/配接线盒 Ceiling type / With terminal block
- X2-吸顶式/一体式 Ceiling type / One-piece
- B1-壁式30° Wall type 30°
- B4-壁式90° Wall type 90°
- P□①-平台式 Roof garden type
- L□②-路灯式 Road lamp type

①："□"代表安装形式代号，分别有：A型、B型、C型、D型、E型、H型。

"□" Stands for installation forms code, there were respectively: A type, Btype, Ctype, Dtype, E type, H type.

②："□"代表安装形式代号，分别有：A型、B型、C型、D型。

"□" Stands for installation forms code, there were respectively: A type, Btype, Ctype, Dtype.

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. widely used in oil extraction, oil refining, chemical industry, military and other dangerous environment and offshore oil platforms, oil tankers and other places for common lighting and working lighting.
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places;

■ 执行标准 Accord with the standard for

GB3836.1、GB3836.2、GB12476.1、 IEC60079-0、GB12476.5、IEC60079-1、IEC61241-0、IEC61241-1;

□ AD62-系列防爆灯
□ AD62- Series explosion-proof lamp

■ 主要技术参数 Main technical parameters

光源种类 Luminaries	电压(V) Voltage	功率(W) Power	灯座 Lamp holder	壳体类型 shell type
自镇汞灯 Mercury self vapor lamp	AC220	125,160	E27	Ⅱ型 Type
		250	E40	Ⅳ型 Type
		450	E40	Ⅴ型 Type
高压汞灯 High pressure Hg lamp		50,80	E27	Ⅱ型 Type
		125	E27	Ⅲ型 Type
		175,250	E40	Ⅳ型 Type
		400	E40	Ⅴ型 Type
高压钠灯 High pressure sodium lamp		70,110	E27	Ⅱ型 Type
		150,250	E40	Ⅳ型 Type
		400	E40	Ⅴ型 Type
金卤灯 Metal halide lamp		70,100	E27	Ⅱ型 Type
		150	E27/E40	Ⅲ型 Type
		175,250	E40	Ⅳ型 Type
		400	E40	Ⅴ型 Type
节能灯 Energy-saving lamp		≤10	E27	Ⅰ型 Type
		11~26	E27	Ⅱ型 Type
		≤45	E27	Ⅲ型 Type
		≤65	E27/E40	Ⅳ型 Type
		≤100	E27/E40	Ⅴ型 Type

防护等级 Degree of protection	防爆标志 Ex-mark	防腐等级 Erosion-proof-class	电缆外径(mm) Cable outer dia.	进线口螺纹(G) Inlet thread	重量(Kg) Weight	
IP65 IP66①	ExdⅡBT4 Gb ExdⅡCT4 Gb ExdⅡBT6 Gb② ExdⅡCT6 Gb② Ex td A21 IP66 T130℃/T80℃	WF1	Φ10～Φ14	3/4	Ⅰ型Type	1.9/3.9
					Ⅱ型Type	3.0/5.9
					Ⅲ型Type	3.8/7.3
					Ⅳ型Type	6.0/9.6
	ExdⅡBT3 Gb ExdⅡCT3 Gb ExdⅡBT6 Gb② ExdⅡCT6 Gb② Ex td A21 IP66 T195℃/T80℃				Ⅴ型Type	7.4/14

① 要求IP66，需注明。 IP66 Requirements must be marked.

② 使用节能灯时，防爆标志为：ExdⅡBT6 Gb/ExdⅡCT6 Gb/DIP A20 TA, T6。
When the luminaries is energy savig lamp the Ex-mark is :ExdⅡBT6 Gb/ExdⅡCT6 Gb/DIP A20 TA, T6.

注：重量如：1.9/3.9，1.9仅表示灯具重量，3.9表示一体式即带镇流器后的总重量。
Note: the weight such as: 1.9/3.9, 1.9 says only lamps and lanterns weight, 3.9 said one-piece namely after the total weight with ballast.

■ 产品结构及特点 Featrues

1. 外壳采用高强度合金铝一次性压铸成型，强度高、防爆性能卓越，经高速抛丸清理后表面高压静电喷塑，塑粉附着力强，具有良好的防腐性能，不锈钢外露紧固件；
2. 灯罩材质采用增强型高硼硅玻璃，透光性好，抗高能量冲击，且为防眩光设计，经过光学二次设计并得到了实际测试的验证；
3. 灯具可为一体式和分体式，一体式结构光源腔，电器箱和接线腔分别独立，安装维护方便，电气性能可靠。
4. 反光罩材质为优质铝板，其反光设计经过了专业光学软件的二次配光设计，且通过了实际测试的验证，提高了灯具的使用效率；
5. 设置了方便开启的孔和防掉式挂钩，增加了维护的安全性；
6. 接线端子采用压线式，使用户无需增加任何附件，方便将导线与端子有效可靠连接；
7. 为一体式时，可内置电感镇流器，可带补偿电容，功率因数≥0.8；
8. 钢管布线。

□ AD62-系列防爆灯
□ AD62- Series explosion-proof lamp

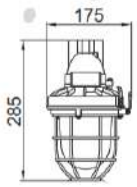
1. The enclosure is moulded by the high strength aluminum alloy for one time, which has high strength, fine explosion-proof functions. Its exterior has sprayed with plastic by high pressure static after shot blasting at high speed. It has strong adhesion of plastic powder and great anti-corrosive performance. Outer fasteners are made of stainless steel.
2. Lamp housing is made of high borosilicate glass with great transmittance and high energy shock resistance. It's the antiglare design. After designed by special software design of distribution for two times, it can get the confirmation.
3. It is holistic structure, however, the light cavity, electrical apparatus box and connecting line cavity are independent. That's convenient to install and maintain, and it has reliable electrical properties.
4. Reflector is made of high-quality aluminium plate. After it has been designed by special software design of distribution for two times, and passed the actual test, the availability factor of lamps can be raised.
5. Assembling the hole and pothook to open conveniently. It can raise the safety of maintenance.
6. The wiring terminals are adopted the pressing line type. It is not necessary to add any accessories, so that the wires and terminals can be connected reliably.
7. When the holistic structure, it can use electronic induction compensation capacitor . Power factor is more than 0. 8.
8. Wiring with steel tube.



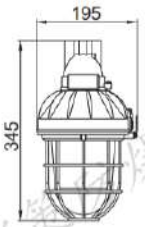
■ 外形及安装尺寸 Outline & Installation dimensions

安装方式及安装尺寸，见E-125/126/131/133
Installation and installation dimensions, see E -125/126/131/133

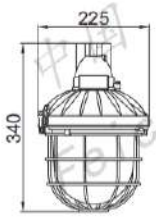
ⅡB



Ⅰ型 Type



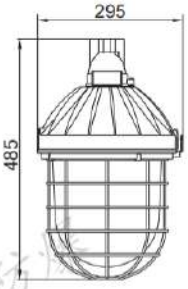
Ⅱ型 Type



Ⅲ型 Type

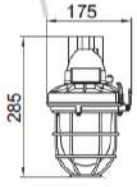


Ⅳ型 Type

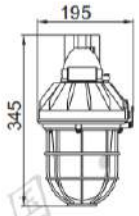


Ⅴ型 Type

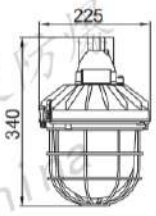
ⅡC



Ⅰ型 Type



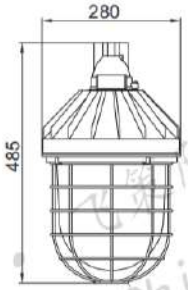
Ⅱ型 Type



Ⅲ型 Type



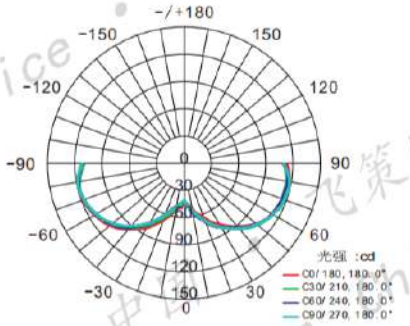
Ⅳ型 Type



Ⅴ型 Type

防爆灯具

■ 配光曲线Luminous distribution curve

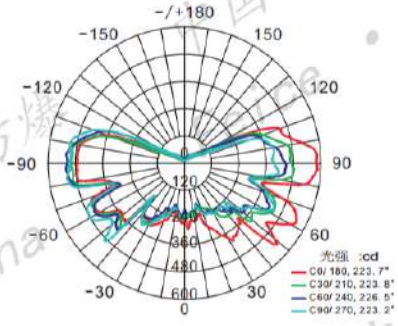


平均光束角(50%):180.0度

Ⅰ型

光源：80W节能灯

Source: 80W Energy-saving lamp

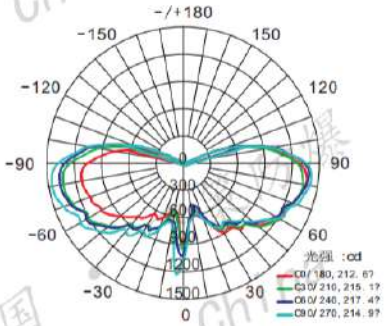


平均光束角(50%):224.3度

Ⅱ型

光源：70W金卤灯

Source: 70W Metal halide lamp

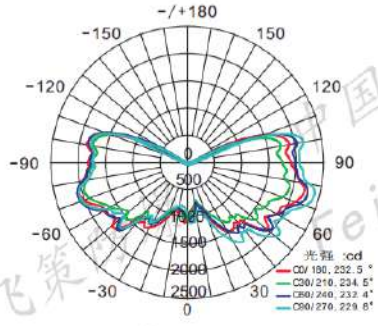


平均光束角(50%):215.0度

Ⅲ型

光源：150W金卤灯

Source: 150W Metal halide lamp

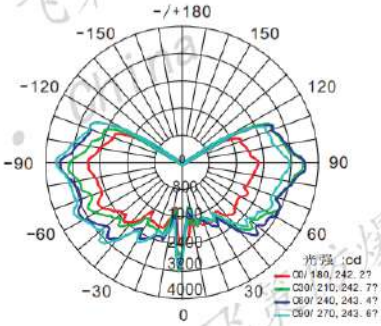


平均光束角(50%):232.3度

Ⅳ型

光源：250W金卤灯

Source: 250W Metal halide lamp



平均光束角(50%):243.0度

Ⅴ型

光源：400W金卤灯

Source: 450W Metal halide lamp

■ 订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号-规格代码+防爆标志+订购数量”。 例如需要粉尘防爆高压钠灯400W，吸顶式安装的灯具，订购数量20套，则产品型号为：“型号：BAD62-规格：N400X +Ex tD A21 IP66 T195℃”；
2. 选定安装形式及配件见P431~P440页。
3. 如用户有特殊需求，需在订购时详细指明。
4. 如需要加灯罩，请在订货时详情指明。

1. In accordance with the specifications of the meaning of the rules and regulations to choose one by one, and in the model specifications after the increase of explosion-proof mark. Concrete expression is: "product model - specification code + explosion-proof mark + order quantity". Such as the need for dust explosion HPS 400W, ceiling-mounted luminaires, order quantity 20 sets, the product model: "Model: BAD62- Specifications: N400X + Ex tD A21 IP66 T195 ℃";
2. Refer to pages P431~P440 for the selected mounting styles and accessories.
3. If there are some special requirements, it should be pointed as ordering.
4. If need the lamp cover, it should be pointed as ordering.

BSD4-系列防爆投光灯
BSD4- Series explosion-proof project lamp



Ⅰ型 Type



Ⅱ型 Type



Ⅲ型 Type

■ 型号含义 Model implication

型号:BSD4－规格□ □ □ □

- 防爆投光灯 Explosion-proof project lamp
- N-高压钠灯 High pressure sodium lamp
- L-金卤灯Metal halide lamp
- Z-自镇汞灯 Mercury self-vapor lamp
- Z-带镇流器(不带不注) With ballast(No marking if without)
- 壳体类型 Shell type
- 额定功率 Rated power

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. Widely used in oil extraction, oil refining, chemical industry, military and other dangerous environment and offshore oil platforms, oil tankers and other places for common lighting and working lighting;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places.

■ 主要技术参数 Main technical parameters

功率(W) Power	电 压 (V) Voltage	防护等级 Degree of protection	防腐等级 Erosion-proof class	电缆外径(mm) Cable outer dia.	进线口螺纹(G) Inlet thread
≤450 1000	AC220	IP65	WF1	Φ10～Φ14	3/4

壳体类型 Shell type	自镇汞灯(W) Mercury self-vapor lamp	金 卤 灯 (W) Metal halide lamp	高压钠灯(W) High pressure sodium lamp	重量(Kg) Weight	防爆标志 Ex-mark	灯座代号 Code of lamp holder
Ⅰ	/	70, 100, 150	70, 110, 125	6.3	Ex d ⅡB/ⅡC T4 Gb Ex tD A21 IP66 T130℃	E27
Ⅱ	250, 450	175, 250, 400	150, 250, 400	13.0	Ex d ⅡB/ⅡC T3 Gb Ex tD A21 IP66 T195℃	E40
Ⅲ	/	1000	1000	18.0	Ex d ⅡB/ⅡC T2 Gb Ex tD A21 IP66 T295℃	

■ 执行标准 Featrues

GB3836.1、GB3836.2、GB12476.1、GB12476.5、 IEC60079-0、IEC60079-1、IEC61241-0、IEC61241-1；

BSD4-系列防爆投光灯
BSD4- Series explosion-proof project lamp

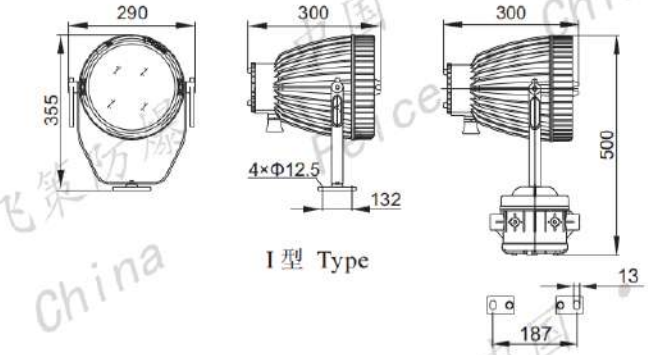
■ 产品结构及特点 Featrues

1. 外壳为高强度铝合金一次性压铸成型，结构紧凑合理、强度高、具有良好的防爆性能，表面经过高速抛丸处理，再进行高压静电喷塑处理，塑粉附着力强，防腐性能好，外形美观大方，不锈钢外露紧固件；
2. 灯体在水平旋转360°，仰角在+90°～－60°内可调；
3. II型产品内设调焦结构，可远近调节，反光罩经过严格的二次光学设计，并经过实际测试的验证，其采用高纯铝并经处理，反光率高，聚光性好；
4. 有较强的防水性能，可用于石油平台及油轮船舶等场所；
5. 电缆布线。

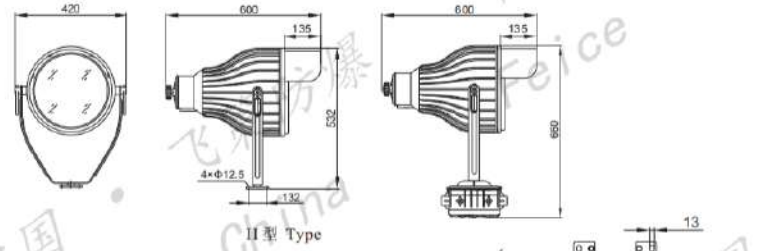
1. The enclosure is moulded by the high strength aluminum allo y for one time, which has high strength, fine explosion-proof functions. Its exterior has sprayed with plastic by high pressure static after shot blasting at high speed. It has strong adhesion of plastic powder and great anti-corrosive performance. Outer fasteners are made of stainless steel.
2. It can be rotated 360° horizontally and adjusted in the range of +90° ～－60°.
3. Focusing structure is in the lamp with II type, and it can adjust the long distance and short distance. The reflect should get special software design of distribution for two times, and it can have the confirmation of actual test. After treating with high purity aluminum, it has great reflection and spotlight.
4. Using in the petroleum platform, tanker, ships and so on, it has fine water proof function.
5. Wiring with cables.



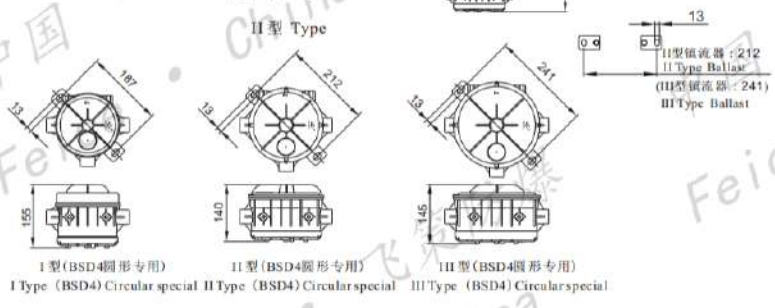
■ 外形及安装尺寸 Outline & Installation dimensions



I 型 Type

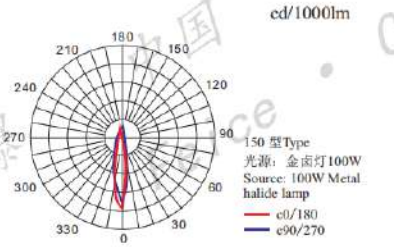


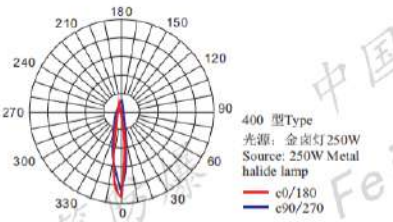
II 型 Type



I 型(BSD4圆形专用) II 型(BSD4圆形专用) III 型(BSD4圆形专用)
I Type (BSD4) Circular special II Type (BSD4) Circular special III Type (BSD4) Circular special

■ 配光曲线 Light distribution curve





■ 订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号-规格代码+防爆标志+订购数量”。例如需要粉尘防爆高压钠灯400W带镇流器的防爆投光灯，订购数量20套，则产品型号规格为：“型号：BSD4-规格：N400IZ+Ex tDA21 IP66 T195℃”；
2. 如用户有特殊需求，需在订购时详细指明。

1. In accordance with the specifications of the meaning of the rules and regulations to choose one by one, and in the model specifications after the increase of explosion-proof mark. Concrete expression is: "product model - specification code + explosion-proof mark + order quantity". Such as the need for dust explosion-proof high-pressure sodium lamp 400W explosion-proof cast light with ballast, ordering the number of 20 sets, the product model specifications:"Model: BSD4 - Specifications: N400IZ + Ex tD A21 IP66 T195 ℃"
2. If there are some special requirements, it should be pointed as ordering.

BSD4-系列防爆泛光灯
BSD4- Series explosion-proof floodlight



Ⅰ型 Type



Ⅱ型 Type



Ⅳ型 Type

■ 型号含义 Model implication

型号BSD4 规格:-□ □ □□□

- 防爆投光(泛光)灯 Explosion-proof flood lamp(floodlight)
- G-高压汞灯 High pressure Hg lamp
- N-高压钠灯 High pressure sodium lamp
- L-金卤灯 Metal halide lamp
- Z-自镇汞灯 Mercury self-vapor lamp
- □ 额定功率 Rated power
- □ 壳体类型 Shell type
- □ B-支架式 Stents type
- □ L□①-路灯式 Road lamp type
- □ Y-一体式 Integrational lamp
- □ Z-带镇流器(不带不注) With ballast(No marking if without)

①："□"代表安装形式代号，分别有：A型、C型、D型。

"□"Stands for installation forms code, there were respectively: A type, Ctype, Dtypee.

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作普通照明及作业照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. Widely used in oil extraction, oil refining, chemical industry, military and other dangerous environment and offshore oil platforms, oil tankers and other places for common lighting and working lighting;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places.

■ 主要技术参数 Main technical parameters

电压(V) Voltage	光源功率 (W) Power				防爆标志 Ex-mark	壳体类型 Shell type	重量(Kg) Weigth
	高压汞灯 High pressure Hg lamp	自镇汞灯 Mercury self vapor lamp	金卤灯 Metal halide lamp	高压钠灯 High pressure sodium lamp			
AC220	175, 250	250	175, 250	150	Ex d ⅡB / ⅡC T3 Gb Ex tD A21 IP66 T130℃	Ⅰ, Ⅳ	7.2/13.0
	400	450	400	250, 400	Ex d ⅡB / ⅡC T2/T3 Gb Ex tD A21 IP66 T195℃	Ⅱ, Ⅳ	13.0/17.0
	低频无极灯 Low-frequency electrodeless lamp		70, 80, 100, 120, 150, 200		Ex d ⅡC / ⅡB T6 Gb Ex tD A21 IP66 T80℃	Ⅱ	13.0/17.0

注：重量如：7.2/13.0，7.2仅表示灯重量，13.0表示一体式即带镇流器。

Note: the weight such as: 7.2/13.0, 7.2 says only lamps and lanterns weight, 13.0 said one-piece namely after the total weight with ballast.

BSD4-系列防爆泛光灯
BSD4- Series explosion-proof floodlight

防护等级 Degree of protection	防腐等级 Erosion-proof class	进线口螺纹(G) Inlet therad	电缆外径(mm) Cable outer dia.	灯座代号 Code of lamp holder
IP65 IP66*	WF1	3/4	Φ10～Φ14mm	E40

* 要求IP66，需注明。 IP66 Requirements must be marked

■ 执行标准 Featrues

GB3836.1、GB3836.2、GB12476.1、 GB12476.5、IEC60079-0、IEC60079-1、IEC61241-0、IEC61241-1；

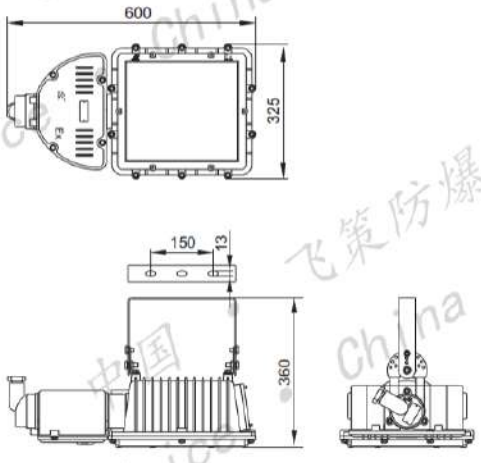
■ 产品结构及特点 Featrues

1. 方形铝合金外壳，采用高强度铝合金一次性压铸成型，表面高速抛丸后高压静电喷塑，外形美观且防腐性能好；
2. 高硼硅玻璃，透光性好，不锈钢外露紧固件；
3. 灯体可水平安装或壁式安装，45～90° 可调；
4. 专利结构，采用侧面开盖，快速更换灯泡；
5. 反光罩经过专业二次配光设计，并得到实际应用验证，使用桔纹漫反射板可使光线柔和，照射角幅度大；
6. 电缆布线。

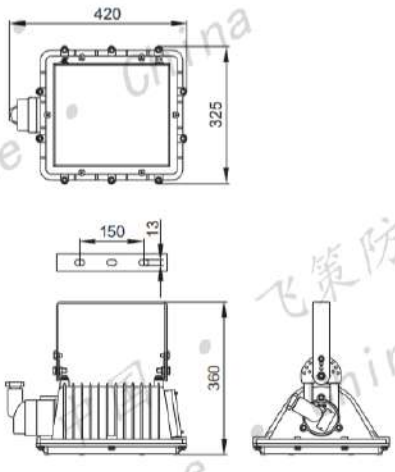
1. The quadrate enclosure is made of aluminum alloy. It is moulded by the high strength aluminum alloy for one time, which has high strength, fine explosion-proof functions. Its exterior has sprayed with plastic by high pressure static after shot blasting at high speed.
2. Lamp housing is made of high borosilicate glass with great transmittance. Outer fasteners are made of stainless steel.
3. It can have horizontally installation or walled installation. Adjusting in the range of 45° ~90° .
4. It has patent structure. We should open the cover in flank to replace the bulb immediately.
5. The reflect should get special software design of distribution for two times, and it can have the confirmation of actual test. Using orange-peel diffuse plate to make the light soft and make the irradiation range large.
6. Wiring with cables.

■ 外形及安装尺寸 Outline & Installation dimensions

路灯式安装图见E-131 Street lamp type the installation drawing see E-131

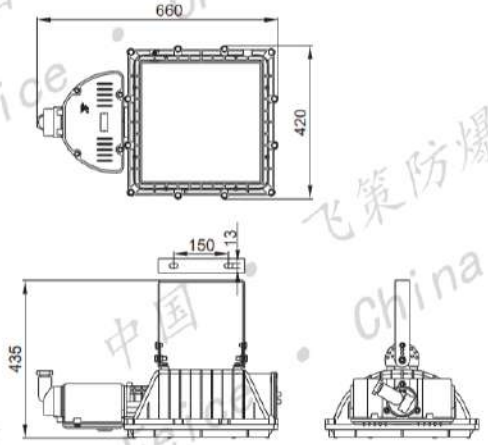


I 型 Type/一体式 one-piece

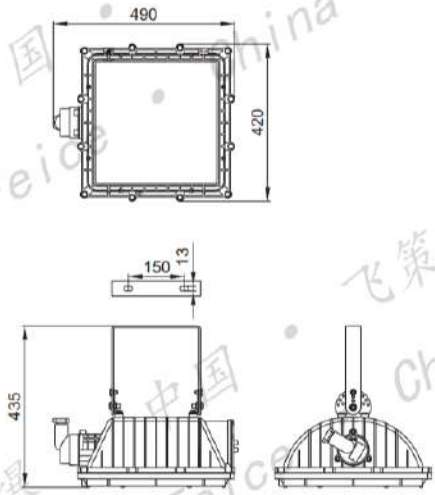


I 型 Type /分体式 red-tipped

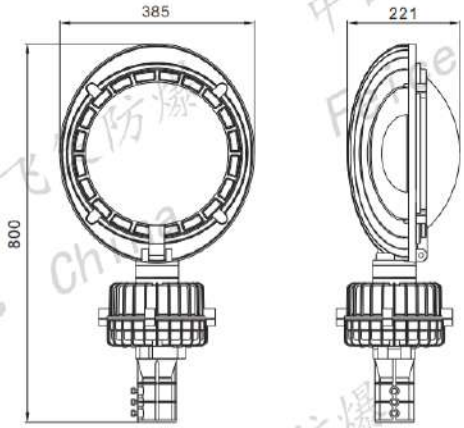
投光、泛光防爆灯具



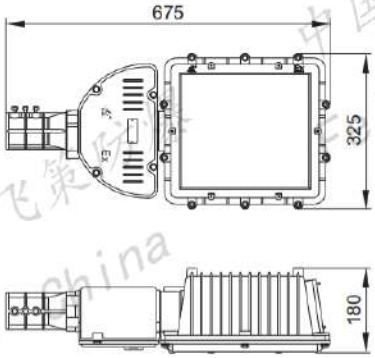
II 型 Type/一体式 one-piece



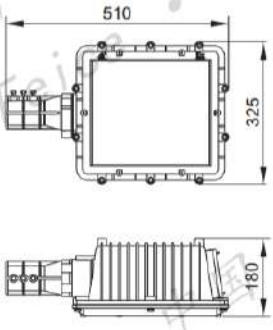
II 型 Type /分体式 red-tipped



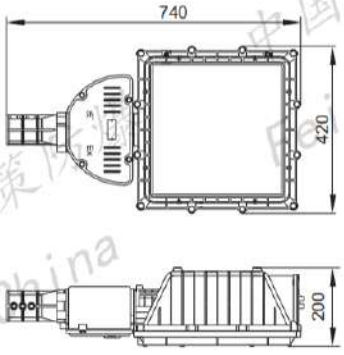
IV型 Type



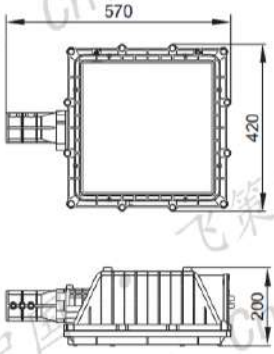
I 型/路灯一体式
I Type/Street lamp type/one-piece



I 型/路灯分体式
I Type/Street lamp type/red-tipped

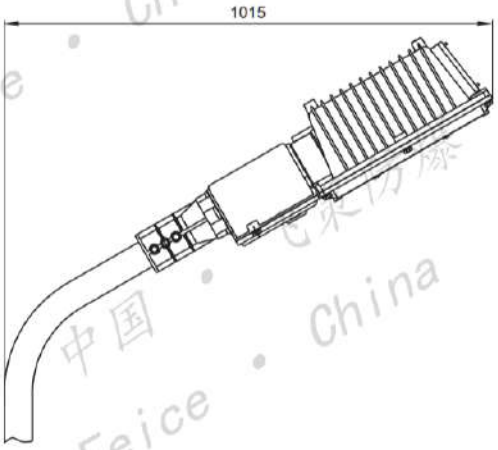


II 型/路灯一体式
II Type/Street lamp type/one-piece

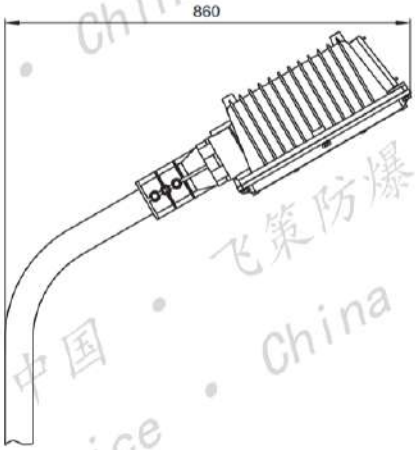


II 型/路灯/分体式
II Type/Street lamp type/red-tipped

BSD4-系列防爆泛光灯
BSD4- Series explosion-proof floodlight

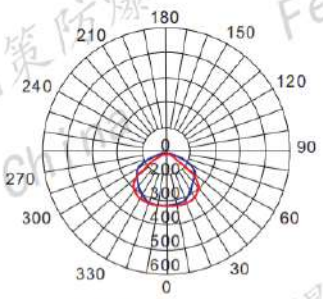


安装示意图(I 型/路灯一体式)
Install schematic(I Type/Street lamp type/one-piece)

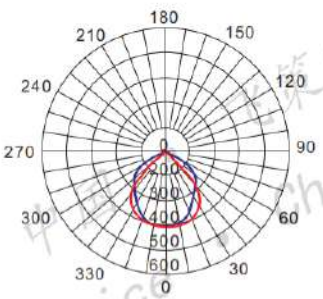


安装示意图(I 型/路灯分体式)
Install schematic(I Type/Street lamp type/red-tipped)

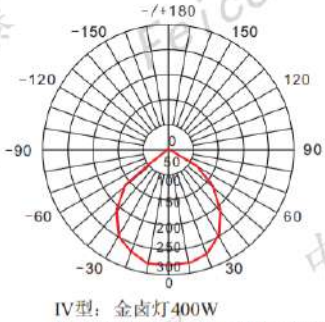
■ 配光曲线 Light distribution curve



I 型：金卤灯175W
Source: 175W Metal halide lamp
c0/180
c90/270 cd/1000lm



II 型：金卤灯400W
Source: 400W Metal halide lamp
c0/180
c90/270 cd/1000lm



IV型：金卤灯400W
Source: 400W Metal halide lamp
cd/3000lm

■ 订货须知 Ordering note

1. 按照型号规格含义中的规则逐条进行选择，并在型号规格含义后增加防爆标志。具体体现为：“产品型号-规格代码+防爆标志+订购数量”。例如需要防爆投光灯采用高压钠灯400W带镇流器，订购数量20套，则产品型号规格为：“型号：BSD4-规格：N400BⅡZ+ExdⅡCT3 Gb+20”
2. 如用户有特殊需求，需在订购时详细指明。

1. In accordance with the specifications of the meaning of the rules and regulations to choose one by one, and in the model specifications after the increase of explosion-proof mark. Concrete expression is: "product model - specification code + explosion-proof mark + order quantity". For example, the need to use high-pressure explosion-proof lamps with 400W high-pressure sodium lamp ballasts, the number of orders 20 sets, the product model specifications: "Model: BSD4-Specifications: N400B II Z + Exd II CT3 Gb + 20 "
2. If there are some special requirements, it should be pointed as ordering.

BAL-系列防爆镇流器
BAL- Series explosion-proof ballast



型号含义 Model implication

BAL - □ □ □ □

- 防爆镇流器 Explosion-proof ballast
- G-高压汞灯 High pressure Hg lamp
- N-高压钠灯 High pressure sodium lamp
- L-金卤灯 Metal halide lamp
- C-补偿电容(不配不注) Compensator (No marking if without)
- L-铝合金外壳(可不注) Aluminium alloy enclosure(No marking)
- g-不锈钢外壳 Stainless steel enclosure
- 额定功率 Rated power

适用范围 Applications

1. 广泛用于石油开采、炼油、化工、海洋石油平台、油轮等易燃易爆气体环境，也用于军工、港口、粮食储存、金属加工等可燃性粉尘场所；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. It is widely used in flammable and explosive gas environment, such as oil extraction, oil refining, chemical industry, offshore oil platform, oil tanker and other flammable dusty places such as military industry, port, grain storage and metal processing.
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 22, 21;
5. Suitable for high protection requirements, damp places.

主要技术参数 Main technical parameters

电压 (V) Voltage	功率 (W) Power	防爆标志 Ex-mark	防护等级 Degree of protection	防腐等级 Erosion-proof class	进线口螺纹(G) Inlet thread	电缆外径(mm) Cable outer dia.	外壳材质 Shell material
AC220	50~1000	Exd ⅡBT6 Gb Exd ⅡCT6 Gb Ex tD A21 IP66 T80℃	IP65 IP66*	WF1	3/4	Φ10～Φ14	铝合金 Aluminium alloy
		Exe ⅡT6 Gb ExnR ⅡT6 Gc Ex tD A21 IP66 T80℃					不锈钢 Stainless steel

*. 要求IP66，需注明。 IP66 Requirements must be marked

壳体类型 Kind of case	壳体材质 Shell material	高压汞灯(W) High pressure sodium lamp	金 卤 灯 (W) Metal halide lamp	高压钠灯(W) High pressure sodium lamp
Ⅰ	铝合金 Aluminum alloy	G80, G125, G175, G250	L70, L100, L150, L175, L250	N70, N100, N110, N150
Ⅱ		G400	L400	N250, N400
Ⅲ	不锈钢 Stainless Steel	G80, G125, G175, G250	L70, L100, L150, L175, L250	N70, N100, N110, N150
Ⅳ		G400	L400	N250, N400

BAL-系列防爆镇流器
BAL- Series explosion-proof ballast

■ 执行标准 Featrues

GB3836.1、GB3836.2、GB12476.1、GB12476.5、IEC60079-1、IEC61241-0、IEC61241-1

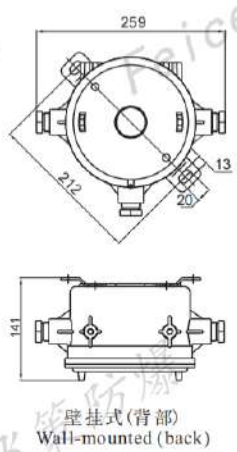
■ 产品结构及特点 Featrues

1. 铸铝合金外壳，压铸成型，表面喷塑，外形美观或采用不锈钢材质焊接而成，表面抛光；
2. 钢管或电缆布线；
3. 可按要求配补偿器。

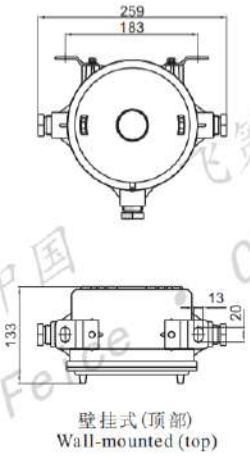
1. Cast aluminum alloy shell, die-casting, surface sprayed, beautiful appearance or welded with stainless steel, polished surface;
2. Steel pipe or cable wiring;
3. The compensator can be equipped as required.

■ 外形及安装尺寸 Outline & Installation dimensions

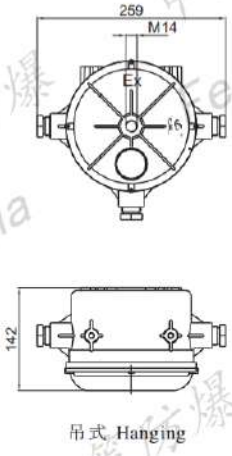
250W Ⅰ型



壁挂式(背部)
Wall-mounted (back)

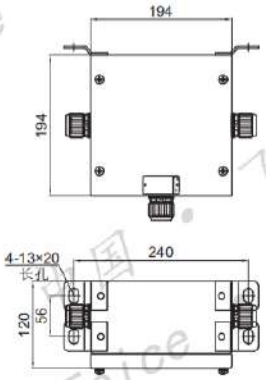


壁挂式(顶部)
Wall-mounted (top)

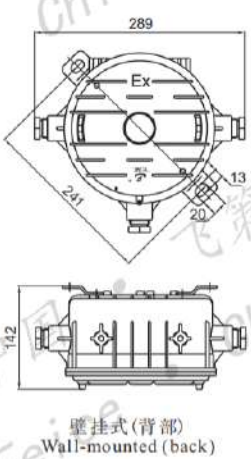


吊式 Hanging

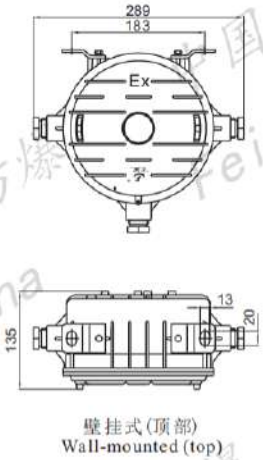
250W Ⅲ型



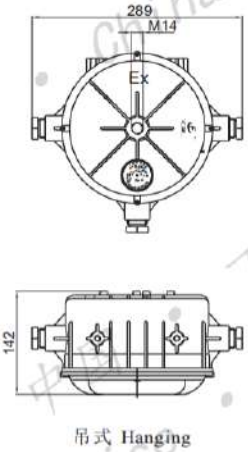
400W Ⅱ型



壁挂式(背部)
Wall-mounted (back)

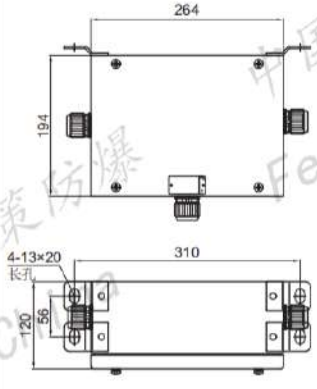


壁挂式(顶部)
Wall-mounted (top)



吊式 Hanging

400W Ⅳ型



■ 订货须知 Ordering note

1. 按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为："产品规格型号代码+防爆标志+订购数量"。如需要IIC400W高压钠灯防爆镇流器，铝合金材质，订购数量20只，则产品型号为："BAL-N400LC+ExdIICT4 Gb+20."
2. 如用户有特殊需求，需在订购时详细指明。

1. Accord with the model implication's rules to select regularly, and Ex-mark should be added behind model implication. The template is as following: code for product model implication +Ex-mark.For example, we need explosion-proof High pressure sodium lamp of aluminium alloy with 400W IIC,whose installation is D type . The model implication is "BAL-N400L+Exd IICT4 Gb+20."
2. If there are some special requirements, it should be pointed as ordering.

FCT95防爆检修灯
FCT95 Explosion-proof inspection lamp



C型 Type

■ 型号含义 Model implication

FCT 95

- 95 — 设计序号 Design Number
- FCT — 防爆检修灯 Explosion-proof inspection lamp

■ 适用范围 Applications

1. 广泛用于石油开采、炼油、化工、军工等危险环境及海洋石油平台、油轮等场所作巡视及移动照明之用；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、 ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高、潮湿及含有腐蚀性气体的 场所。
6. 适用于移动检修照明。

1. Widely used in oil exploration, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for inspection and mobile lighting purposes;
2. Suitable for explosive gas environment zone 1, zone 2;
3. Explosive atmosphere: class ⅡA, ⅡB, ⅡC;
4. Suitable for combustible dust environment in the area 21, 22;
5. It is suitable for places requiring high protection, humidity and corrosive gas.
6. Suitable for mobile inspection lighting.

■ 主要技术参数 Main technical parameters

序号 Serial number	参数名称 Parameter Name		单位 unit	数值 Numerical value
1	额定电压 Rated Voltage		V	AC/DC12～36
2	额度功率 Credit Power		W	12
3	光源 Light Source		LED	
4	外形尺寸 Dimensions	长度 length	mm	468.5
		直径 diameter	mm	80.5
5	重量 weight		kg	0.7
6	适用电缆外径 Applicable cable outer diameter		Φ10～14	
7	防爆标志 Explosion-proof mark	Exde ⅡC T6 Gb ,Ex tD A21 IP66 T80℃		

FCT95防爆检修灯
FCT95 Explosion-proof inspection lamp

FEICE 飞策

■ 执行标准 Featrues

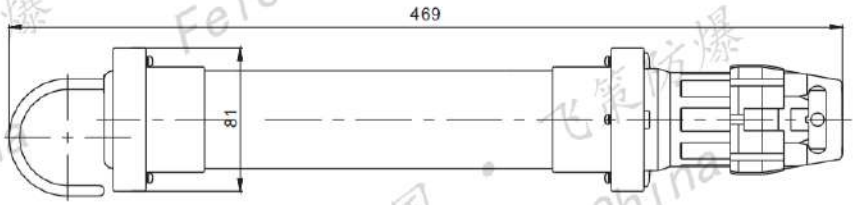
GB 3836. 1、GB 3836. 2、GB 3836. 3、GB 12476. 1、GB 12476. 5。

■ 产品结构及特点 Featrues

1. 外壳为工程塑料材质，透明罩用聚碳酸酯注塑成型，内装LED光源，具有重量轻，使用方便。
2. 外壳防护等级达到IP66，确保灯具在各种恶劣的条件下可靠使用。
3. 灯具前端设有不锈钢挂钩，可360°转动。
4. 灯具重量轻，可手持、吊挂等多种携带方式，使用方便。
5. 可用于移动检修照明和设备局部照明。

1. The outer casing is made of engineering plastic material, the transparent cover is injection molded with polycarbonate, and the LED light source is built in, which is light in weight and convenient to use.
2. The enclosure has an IP66 rating to ensure reliable operation of the lamp under all kinds of harsh conditions.
3. The front end of the lamp is provided with a stainless steel hook that can be rotated 360°.
4. Lightweight, light-weight, portable, hanging and other portable means, easy to use.
5. Can be used for mobile inspection lighting and local lighting of equipment.

■ 外形及安装尺寸 Outline & installation dimensions



■ 订货须知 Ordering note

按照型号含义中的规则逐条进行选择，并在型号含义后增加防爆标志。具体体现为：“产品规格型号代码+防爆标志+订购数量”。例如需要手提式强光防爆巡检工作灯，数量20盏，则产品型号为：IW5510+ Ex d e Ⅱ C T6 Gb+20。

Select one by one according to the rules in the model meaning, and add the explosion-proof mark after the model meaning. The specific embodiment is: "Product specification model code + explosion-proof mark + order quantity". For example, if you need a portable glare explosion-proof inspection work light with a quantity of 20 inches, the product model number is: IW5510+ Ex d e II C T6 Gb +20.

BGD-系列防爆高杆灯
BGD-Series explosion-proof high pole lamp









■ 适用范围 Applications

1. 广泛用于国防工程、航天工程、港口工程、储备库、大型危险品货柜码头、油井开采现场及石化行业等需要大面积集中照明的场所；
2. 适用于爆炸性气体环境的1区、2区；
3. 适用于ⅡA、ⅡB、ⅡC类爆炸性气体环境；
4. 适用于可燃性粉尘环境的21区、22区；
5. 适用于防护要求较高，潮湿的场所。

1. Widely used in national defense projects, aerospace engineering, port engineering, storage, large-scale dangerous goods terminal, oil well mining and petrochemical industries need a large area of centralized lighting places;
2. Applicable to explosive gas atmospheres in Zone 1, Zone 2;
3. Applicable to II A, IIB, II C explosive gas atmospheres;
4. Suitable for combustible dust environment 21, 22;
5. Applicable to the protection requirements of high, humid places.

■ 型号含义 Model implication

BGD - □ □ □ □ ×□

- 灯具型号 Lamp type
- 灯具数量 Number of lamps
- 灯杆形式 Light pole form
  - g-固定式 Fixed type
  - s-升降式 Lift type
- 灯杆高度 Height of poles
- 灯盘形状代号 Lamp shape code
  - A-圆形 Circular
  - B-六边形 Hexagon
  - C-三角形 Triangle
  - D-扇形 Sector
- 防爆高杆灯 Explosion-proof high pole lamp

■ 产品特点 Features

1. 我公司生产的防爆高杆灯结构合理、强度高，组装、维修和更换光源方便，升降系统和电器系统技术先进、性能可靠；
2. 灯杆：采用优质碳素钢板经加工折弯，自动焊接成型，灯杆的所有金属构件均采用热浸锌防腐处理，并进行钝化处理，使所有内外壁表面均获得妥善保护，以延长使用寿命和节约维护费用；
3. 防爆配电控制系统：防爆控制箱固定于灯杆底部，内置照明和电机控制系统，双回路电力供电，可全负荷照明和部分照明，具有手控、光控及时控等多种控制方式，可以满足用户的不同需求，采用拖缆方式供电，防爆控制箱和照明电缆采用特制的具有锁定装置的专用插件连接；
4. 防爆自动升降传动系统：本系统由防爆电机、蜗轮蜗杆、卷筒等组成。可以使灯盘在任何位置停止。设置过扭矩保护、具有自动、手动两种操作功能；
5. 挂钩系统：本系统设置了自动挂、脱钩卸载装置(且有限位开关)，使灯盘不受风力作用发生扭动现象。主钢缆处于卸荷状态，可保证灯盘在恶劣天气情况下处于稳定状态；

BGD-系列防爆高杆灯
BGD-Series explosion-proof high pole lamp

6. 钢缆导向滑轮系统：该组件由三组滑轮臂成120°排列并被固定在灯杆顶部固定支撑上，每组滑轮臂安装有：
a.终身润滑密封 的特制轴承；b.专用于灯盘自动锁定，脱落的卸载装置；c.高分子非金属绝缘材料的滑轮，对电缆表面无损伤；d.防止钢缆滑出导向轮的限位装置；
7. 导向及制动系统：此系统在灯盘正常上升和下降过程中起导向作用，一旦钢丝绳发生断裂时，此系统起制动保护作用，防止 灯盘坠落。导向系统通过弹簧压紧的尼龙轮使灯盘在升降过程中始终处于对中位置，防止灯盘偏斜与灯杆碰撞、损伤灯杆或 灯盘防腐表面。制动系统由彼此成120°排列的三组装置组成，由三块制动器同时楔入灯杆来完成，一旦悬吊钢绳再次拉紧，制动器从灯杆上放松使灯盘可以重新升降。在钢缆处于卸荷状态时，制动器始终保护锁定。先进的液压制动技术防止钢性冲击，制动力更大，制动平稳无噪声；
8. 防雷接地装置：防爆高杆灯设置有专用的接地装置，其接地电阻不大于10Ω电器防爆处理。
9. 所有机械传动部位均经过非电器防爆处理。

1. This high pole lamp is with perfect structure, strong intensity, it is convenient to assembly, maintain or replace luminaries, reliable lift system, electric system and advanced technology;
2. Lamp pole: It is bended with perfect carbonate steel, welded automatically, all the metal parts are galvanized and passivated, Both theinternal and external surfaces shall be protected carefully to delay the service life and save the maintenance charge;
3. Explosion-proof distribution system, explosion-proof control box is fixed on the base, built in lighting and motor control system, doublecircuits to supply power, light for part ,it is with manual, optic control and time control ways, which can satisfy different requirements , cable pulling supply, control box and lighting cable adopt special locking device to connect;
4. Explosion-proof automatic lift and driving system: it is composed of explosion-proof motor, worm wheel and drum, lamp panel can stop at any position, torsional moment protection, with manual and auto operation functions;
5. Hook system: this system is with auto loading and unloading device(with limit switch),the lamp panel will not move by the effect of wind, Main steel cable is in relief state, to ensure it can be in stable state even in bad weather;
6. Steel cable guide block system: it is composed of three groups of block arm of 120° , arranged and fixed on the top of lamp pole , each group mounting: a. life time lubricate seal axletree; b. Special lamp panel can be locked by itself, drop unloading device ; c. Macromolecule non-metal insulation material axletree, it does not damage the surface of cable; d. Limit device can prevent the steel cable from going out of the guiding axletree;
7. Guiding and break system: It is used to guide the lift of lamp panel, if the steel cable breaks, this can make break protection to prevent the lamp panel falling off. Guiding system can make the panel on the middle position during the lift by nylon wheel to avoid panel crashing with pole and damage the lamp pole . Break system can be 120° , they are arranged for three groups, three break devices built in the lamp pole, when the hanging steel cable strained again, break device can loose and the panel can lift again. When the steel cable is under the relief state, break device is locked all the time. Advanced liquid break technology can prevent steel impact, strong break force without noise;
8. Lightning protection earth device: The are special earth device on the explosion-proof high pole lamp, the earth resistance is not more than 10hanical drive parts are treated with non-electric equipment explosion-proof treatment.
9. All the mechanical drive parts are treated with non-electric equipment explosion-proof treatment.

■ 主要技术参数 Main technical parameters

高度(m) Height	15	18	20	25	25	30	35	40
底径(mm) Bottom diameter	360	400	480	570	570	650	700	780
顶径(mm) Top diameter	180	180	180	220	220	220	250	300
壁厚(mm) Wall thickness	5/5	5/6	6/6	6/6/6	6/6/8	6/6/8	6/6/8/8	6/6/8/10

高杆灯执行标准 Standard	钢结构设计规范 Steel structure standard	高耸结构设计规范 Topping structure design criterion	建筑抗震设计规范 Construction anti-seismic strength	建筑结构荷载规范 Construction load strength	建筑地基基础设计规范 The ground design criterion	防爆产品设计规范 Design criterion of explosion-proof product
	Gb50017	GBJ135	Gb50011	GBJ9	Gb50007	GB3836-2010

防爆电机功率 Explosion-proof motor power	升降方式 Lift way	电机升降速度 Motor lift speed	输入电源 Input power
0.9~1.4KW	手动/自动Mannul/Auto	1~6m/min	3P+N+PE

BGD-系列防爆高杆灯
BGD-Series explosion-proof high pole lamp

FEICE 飞策

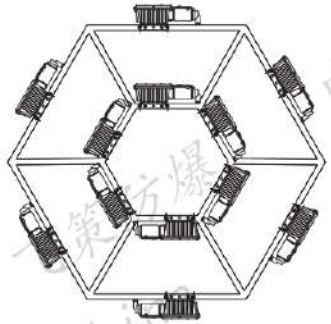
■ 主要技术参数 Main technical parameters

灯具型号 Lamp model	灯具名称 Lamp Name	高杆灯防爆标志 High pole light explosion-proof sign
FCT93-□□□	防爆LED灯 Explosion-proof Led Lights	Ex d e mb IIB T4 Gb
BAD63-□□□	防爆高效节能LED灯 Explosion-proof High-efficiency Led Light	Ex d e mb IIB T4 Gb
BAD63-A	防爆高效节能LED灯 Explosion-proof High-efficiency Led Light	Ex d e IIB T4 Gb
FCD63	防爆高效节能灯（智能调光） Explosion-proof High-efficiency Energy-saving Lamp	Ex d e IIB T4 Gb
BSD4-□□□	防爆投光灯 Explosion-proof Floodlight	Ex d e IIB T3 Gb
BSD4	防爆投光灯 Explosion-proof Floodlight	Ex d e IIB T2 Gb
BAD60	防爆灯 Explosion-proof Lights	Ex d e IIB T3/T4 Gb

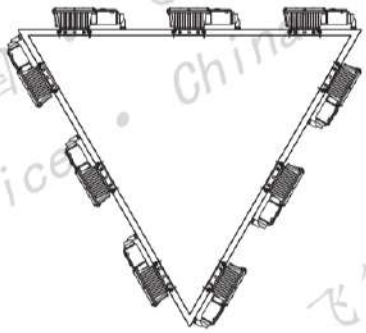
■ 灯盘形状 Lamp plate shape



A型 Type



B型 Type

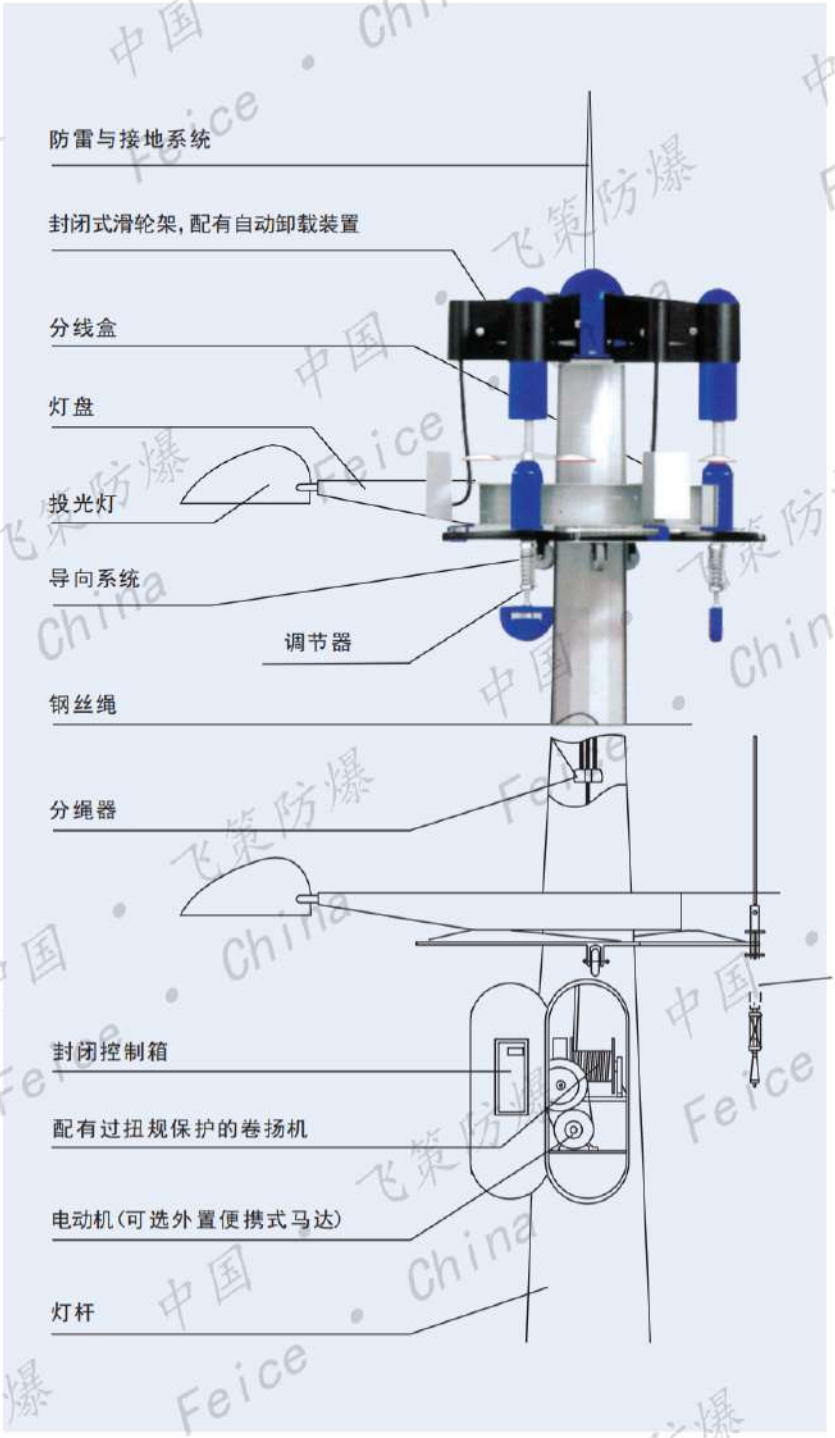


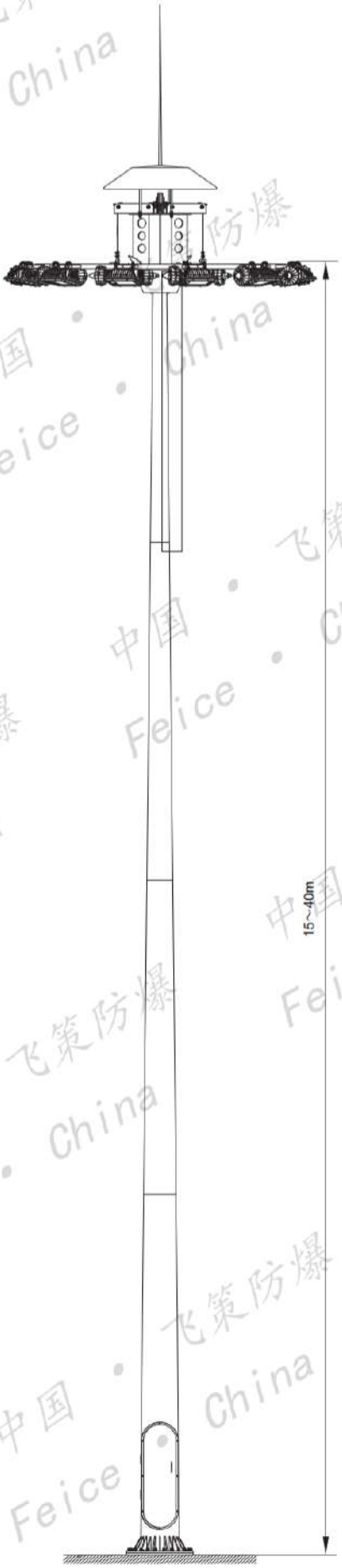
C型 Type



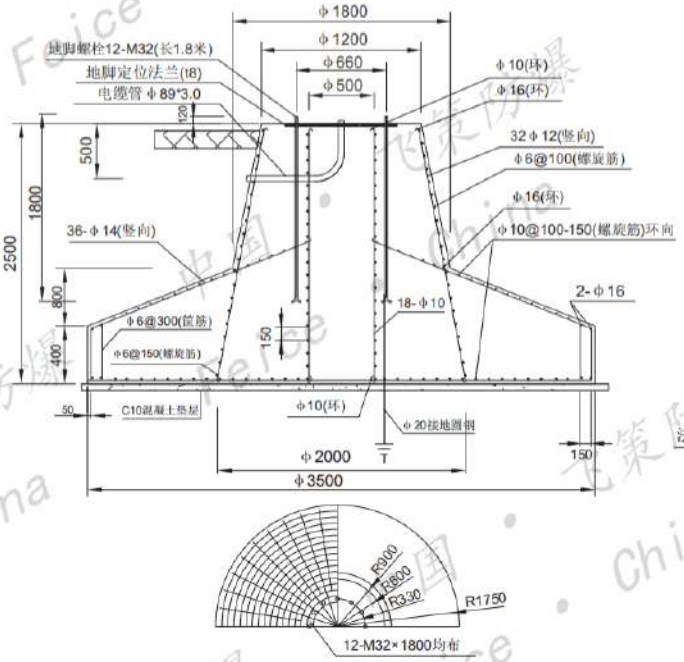
D 型Type

■ 升降机构图 Elevator composition

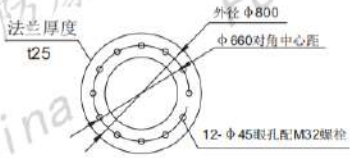




15～20m高杆灯 High-pole lamp
基础平面图 Foundation plan

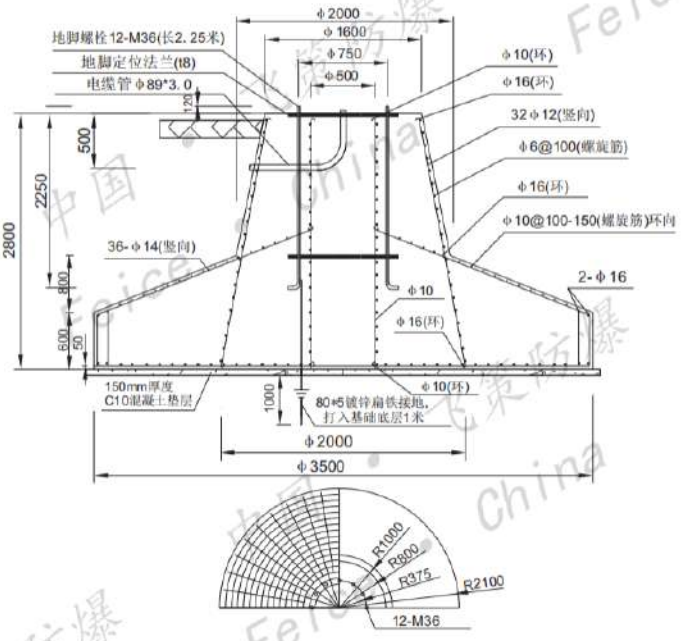


说明：
1. 本基础为钢筋混凝土结构，按《建筑地基基础设计规范》GBJ7-89等标准设计；
2. 本基础适用于地基承载力不低于12t/m²的地区。在山区、海边和其它软弱地基的地区，气象、地理与地质等自然条件比较复杂时，应由当地勘察设计部门确定，本图仅供参考；
3. 钢筋保护层厚度不小于40mm混凝土强度等级不低于c20(200Kgf/平方厘米)；
4. 基础内预埋电缆管弯曲半径不小于900mm；
5. 接地线用φ20圆钢，接地电阻应小于10欧姆；
6. 本基础埋置深度为2.5m，基础顶面应高出回填土面0.1m；
7. 本基础埋置深度应征得当地城建部门认可后，才能施工；
8. 本基础铁板采用Q235材质；
9. 高杆灯安装调试结束后，用混凝土封闭地脚螺栓；
10. 本基础图仅供参考，具体应根据当地气候地质条件制定；
11. 基础由用户自备。

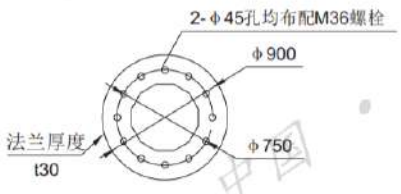


法兰平面示意图
Flange plane schemes

25～30m高杆灯 High-pole lamp
基础平面图 Foundation plan



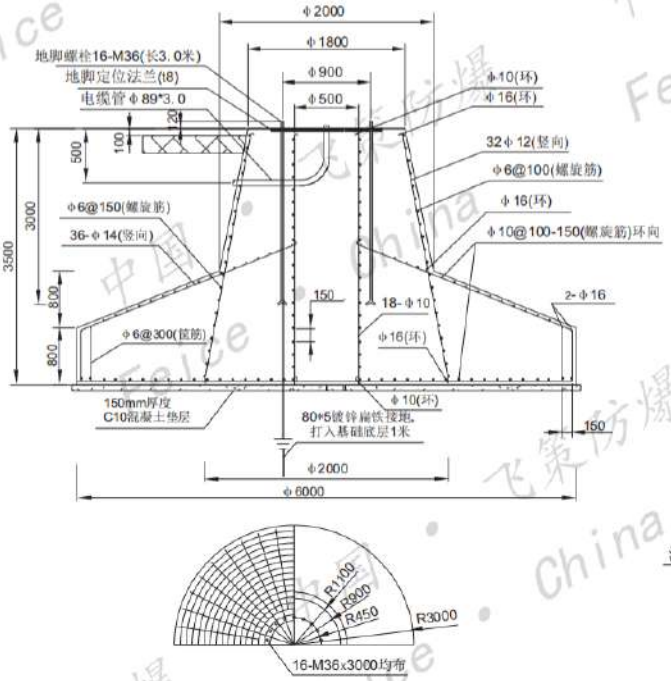
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5. 接地线用φ20圆钢，接地电阻应小于10欧姆；
6. 本基础埋置深度为2.8m，基础顶面应高出回填土面0.1m；
7. 本基础埋置深度应征得当地城建部门认可后，才能施工；
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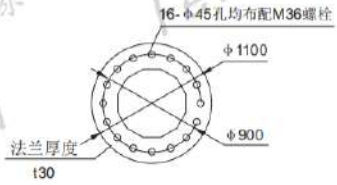
法兰平面示意图
Flange plane schemes

投光、泛光防爆灯具

35m高杆灯 High-pole lamp
基础平面图 Foundation plan

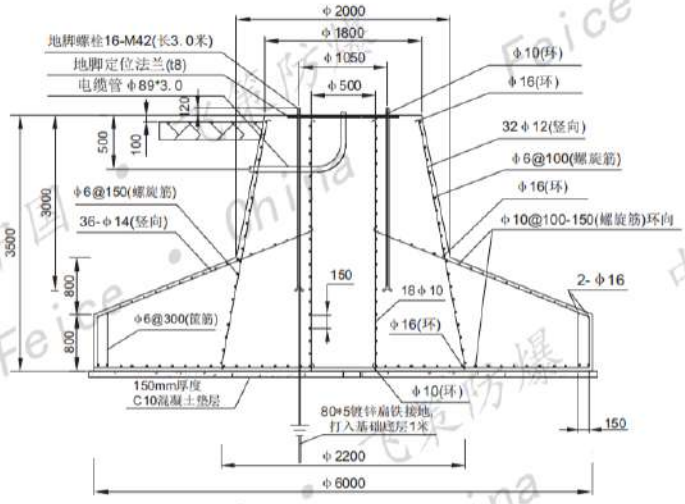


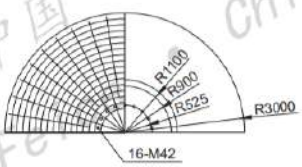
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4. 基础内预埋电缆管弯曲半径不小于900mm；
5. 接地线用φ20圆钢，接地电阻应小于10欧姆；
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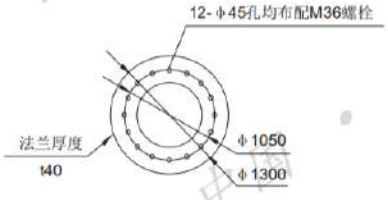
法兰平面示意图
Flange plane schemes

45m高杆灯 High-pole lamp
基础平面图 Foundation plan





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7. 本基础埋置深度应征得当地城建部门认可后，才能施工；
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法兰平面示意图
Flange plane schemes