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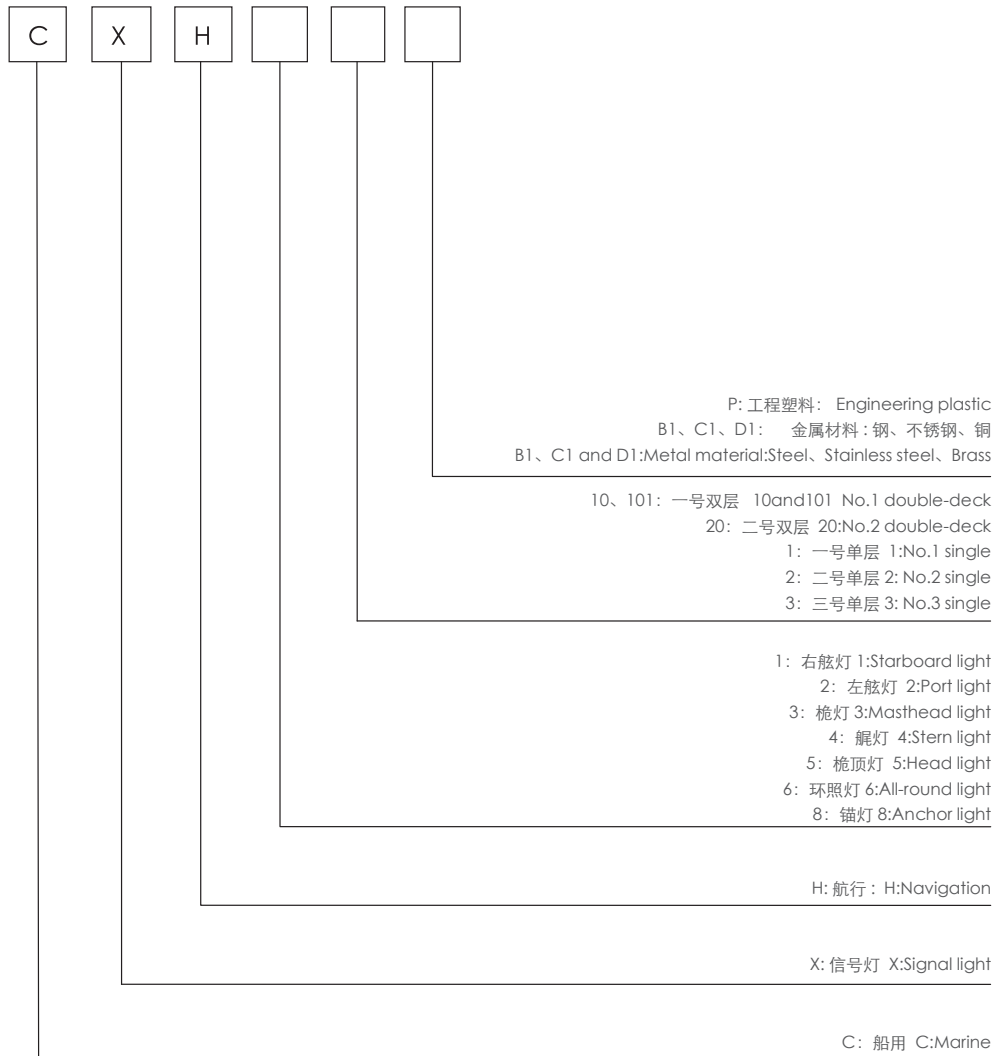
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# 航行信号灯

Navigation signal lights

■ 航行信号灯型号及性能说明

Models and function of navigation signal lights

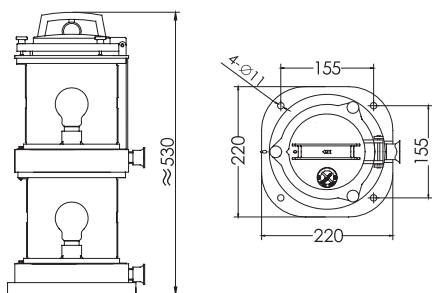


■ 说明:

1. 一号系列号灯适用于长度为 50 米或 50 米以上的船舶作夜航灯光信号。
2. 二号系列号灯适用于长度为 12 米或 12 米以上 50 米以下的船舶作夜航灯光信号。
3. 三号系列号灯适用于长度为 12 米以下的船舶作夜航灯光信号。

■ Remark:

- 1.No.1 series of signal lights fit for the ships with the length 50m or above 50m as lamp signal when night navigation.
- 2.No.2 series of signal lights fit for the ships with the length 12m or above 12m(<50m) as lamp signal when night navigation.
- 3.No.3 series of signal lights fit for the ships with the length less than 12m as lamp signal when night navigation.



#### ■ The scope of application:

This light fits for the ships with the length 50m or above 50m as lamp signal communication when night navigation.

#### ■ Products feature:

- 1.This lamp can be installed conveniently ,up deck and down deck can open separately,it is easy to replace the bulbs.
- 2.There are automatic leak holes on the bottom of light.
- 3.The shell adopts high-strength engineering plastic with watertight, good corrosion resistance, impact resistance and other characteristics.
- 4.The lampshade adopts Poly carbonate material which has the feature of ultraviolet radiation resistance and non-discoloring.
- 5.The signal lights adopt the signal light' s bulb which conform to the ship norm and the average life not less than 700 hours.
- 6.The signal lights can work normally under the temperature -30℃ ~ +50℃ .
- 7.Cable outside diameter  $\varnothing$ 11mm.

#### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008 .
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

#### ■ 适用范围 :

该灯具适用于 50 米或 50 米以上各类船舶作夜间航行灯光信号联络。

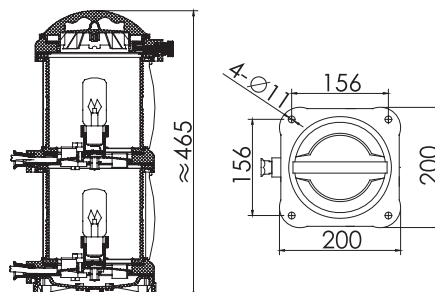
#### ■ 产品特性 :

1. 灯具安装方便，上下层可分别打开，更换灯泡便捷。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用高强度工程塑料，具有水密性好，耐腐，抗冲击等特点。
4. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
5. 灯具采用符合船舶规范的船用信号灯灯泡，平均寿命不低于 700 小时。
6. 环境温度在 -30℃ ~ +50℃ 的范围内，灯具均能正常工作。
7. 电缆外径  $\varnothing$ 11mm。

#### ■ 采用标准及产品认证 :

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-10P	3n.m	112.5°	B22d	220V/65W 110V/65W 24V/60W	60cd	IP56	绿 Green	5.3Kg
左舷灯 Port light	CXH2-10P	3n.m	112.5°					红 Red	5.3Kg
桅灯 Masthead light	CXH3-10P	6n.m	225°					明 Transparent	5.1Kg
艉灯 Stern light	CXH4-10P	3n.m	135°					明·黄 Transparent/Yellow	5.4Kg
环照灯 All-round light	CXH6-10P	3n.m	360°					红·绿·明·黄 Red/Green Transparent/Yellow	4.9Kg



#### ■ 适用范围：

该灯具适用于 50 米或 50 米以上各类船舶作夜间航行灯光信号联络。

#### ■ 产品特性：

1. 灯具安装方便，灯泡更换便捷，打开上盖即可更换上下层灯泡。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用高强度工程塑料，具有水密性好，耐腐，抗冲击等特点。
4. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
5. 灯具采用符合船舶规范的船用信号灯灯泡，平均寿命不低于 700 小时。
6. 环境温度在 -30℃ ~ +50℃ 的范围内，灯具均能正常工作。
7. 电缆外径  $\varnothing 10\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

#### ■ The scope of application:

This light fits for the ships with the length 50m or above 50m as lamp signal communication when night navigation.

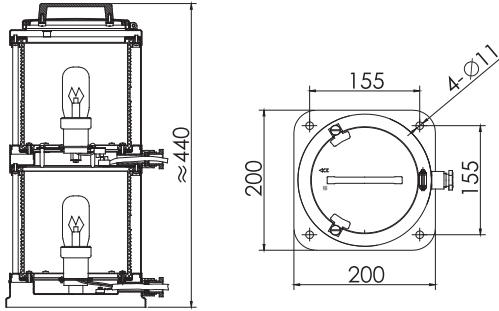
#### ■ Products feature:

1. This lamp can be installed conveniently and its bulb can be replaced easily. It can replace the bulbs after open the up cover.
2. There are automatic leak holes on the bottom of light.
3. The shell adopts high-strength engineering plastic with watertight, good corrosion resistance, impact resistance and other characteristics.
4. The lampshade adopts Poly carbonate material which has the feature of ultraviolet radiation resistance and non-discoloring.
5. The signal lights adopt the signal light's bulb which conform to the ship norm and the average life not less than 700 hours.
6. The signal lights can work normally under the temperature -30℃ ~ +50℃ .
7. Cable outside diameter  $\varnothing 10\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008 .
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-101P	3n.m	112.5°	P28s	220V65W 110V65W 24V60W	60cd	IP56	绿 Green	4.3Kg
左舷灯 Port light	CXH2-101P	3n.m	112.5°					红 Red	4.3Kg
桅灯 Masthead light	CXH3-101P	6n.m	225°					明 Transparent	4.1Kg
艉灯 Stern light	CXH4-101P	3n.m	135°					明·黄 Transparent/Yellow	4.1Kg
环照灯 All-round light	CXH6-101P	3n.m	360°					红·绿·明·黄 Red/Green Transparent/Yellow	3.8Kg



#### ■ The scope of application:

This light fits for the ship with the length 50m or above 50m as lamp signal communication when night navigation.

#### ■ Products feature:

1. This lamp can be installed conveniently and its bulb can be replaced easily.
2. The shell is made of metal material (steel/stainless steel/brass) by pressing mold, light surface is painted by marine special molding powder which has the feature of corrosion prevention and shock resistance.
3. The lampshade adopts Poly carbonate which has the feature of UV resistance and non-discoloring.
4. There are automatic leak holes on the bottom of light.
5. Cable outside diameter  $\varnothing 11\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008.
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
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5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

#### ■ 适用范围:

该灯具适用于 50 米或 50 米以上各类船间航行灯光信号联络。

#### ■ 产品特性:

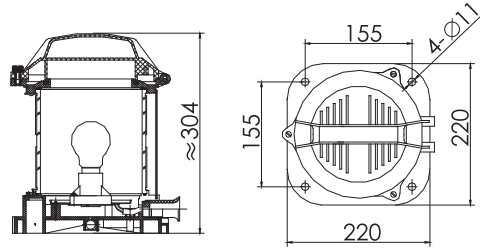
1. 灯具安装方便，灯泡更换便捷。
2. 灯具外壳采用金属材料钢质、不锈钢、铜，用模具压制成型，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
3. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
4. 灯具底部设有自动漏水孔。
5. 电缆外径  $\varnothing 11\text{mm}$ 。

#### ■ 采用标准及产品认证:

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-10B1	3n.m	112.5°	P28s B22d	220V/65W 110V/65W 24V/60W	60cd	IP56	绿 Green	5.0Kg
左舷灯 Port light	CXH2-10B1	3n.m	112.5°					红 Red	5.0Kg
桅灯 Masthead light	CXH3-10B1	6n.m	225°					明 Transparent	4.8Kg
艉灯 Stern light	CXH4-10B1	3n.m	135°					明·黄 Transparent/Yellow	5.0Kg
环照灯 All-round light	CXH6-10B1	3n.m	360°					红·绿·明·黄 Red/Green Transparent/Yellow	4.6Kg





**■ 适用范围：**

该灯具适用于 50 米或 50 米以上各类船舶作夜间航行灯光信号联络。

**■ 产品特性：**

1. 灯具安装方便，灯泡更换便捷。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用高强度工程塑料，具有水密性好，防腐，抗冲击等特点。
4. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
5. 灯具采用符合船舶规范的船用信号灯泡，平均寿命不低于 700 小时。
6. 环境温度在 -30℃ ~ +50℃ 的范围内，灯具均能正常工作。
7. 电缆外径  $\varnothing 11\text{mm}$ 。

**■ 采用标准及产品认证：**

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

**■ The scope of application:**

This product is fit for the ship with the length 50M or above 50M as lamp signal when night navigation.

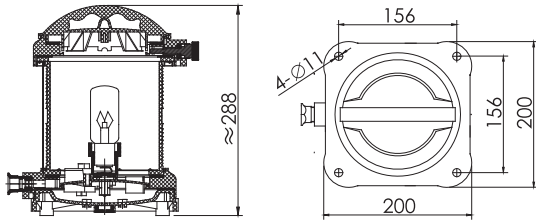
**■ Products feature:**

- 1.This light can be installed conveniently and its bulb can be replaced easily .
- 2.There are automatic leak holes on the bottom of light.
- 3.The shell is made of high-strength engineering plastics which has the feature of excellent waterproof, corrosion prevention and shock resistance.
- 4.The lampshade is made of poly carbonate which has the feature of UV resistance and non-discoloring.
- 5.The signal lights adopt the signal light' s bulb which conform to the ship norm and the average life not less than 700 hours.
- 6.The signal lights can work normally under the temperature -30℃ ~ +50℃ .
- 7.Cable outside Diameter is  $\varnothing 11\text{mm}$ .

**■ Adopt standard and products certification:**

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008 .
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-1P	3n.m	112.5°	B22d	220V65W 110V65W 24V60W	60cd	IP56	绿 Green	2.8Kg
左舷灯 Port light	CXH2-1P	3n.m	112.5°					红 Red	2.8Kg
桅灯 Masthead light	CXH3-1P	6n.m	225°					明 Transparent	2.8Kg
艉灯 Stern light	CXH4-1P	3n.m	135°					明·黄 Transparent/Yellow	2.8Kg
环照灯 All-round light	CXH6-1P	3n.m	360°					红·绿·明·黄 Red/Green Transparent/Yellow	2.6Kg



#### ■ The scope of application:

This light fits for the ships with the length 50m or above 50m as lamp signal communication when night navigation.

#### ■ Products feature:

1. This lamp can be installed conveniently and its bulb can be replaced easily.
2. There are automatic leak holes on the bottom of light.
3. The shell adopts high-strength engineering plastic with watertight, good corrosion resistance, impact resistance and other characteristics.
4. The lampshade adopts Poly carbonate material which has the feature of ultraviolet radiation resistance and non-discoloring.
5. The signal lights adopt the signal light's bulb which conform to the ship norm and the average life not less than 700 hours.
6. The signal lights can work normally under the temperature  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$ .
7. Cable outside diameter  $\varnothing 10\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008.
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

#### ■ 适用范围:

该灯具适用于 50 米或 50 米以上各类船舶作夜间航行灯光信号联络。

#### ■ 产品特性:

1. 灯具安装方便，灯泡更换便捷。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用高强度工程塑料，具有水密性好，耐腐，抗冲击等特点。
4. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
5. 灯具采用符合船舶规范的船用信号灯泡，平均寿命不低于 700 小时。
6. 环境温度在  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$  的范围内，灯具均能正常工作。
7. 电缆外径  $\varnothing 10\text{mm}$ 。

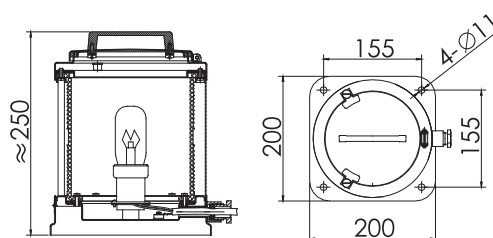
#### ■ 采用标准及产品认证:

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-11P	3n.m	112.5°	P28s	220V/65W 110V/65W 24V/60W	60cd	IP56	绿 Green	2.5Kg
左舷灯 Port light	CXH2-11P	3n.m	112.5°					红 Red	2.5Kg
桅灯 Masthead light	CXH3-11P	6n.m	225°					明 Transparent	2.5Kg
艉灯 Stern light	CXH4-11P	3n.m	135°					明·黄 Transparent/Yellow	2.5Kg
环照灯 All-round light	CXH6-11P	3n.m	360°					红·绿·明·黄 Red/Green Transparent/Yellow	2.3Kg

# CXH-1D1 | 一号单层航行信号灯

## NO.1 SINGLE NAVIGATION SIGNAL LIGHT



### ■ 适用范围：

该灯具适用于 50 米或 50 米以上各类船间航行灯光信号联络。

### ■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 灯具外壳采用金属材料（钢质 / 不锈钢 / 铜），用模具压制成型，外表面喷涂船舶专用塑粉，具有防腐，抗冲击等特点。
3. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
4. 灯具底部设有自动漏水孔。
5. 电缆外径  $\varnothing 11\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

### ■ The scope of application:

This light fits for the ship with the length 50m or above 50m as lamp signal communication when night navigation.

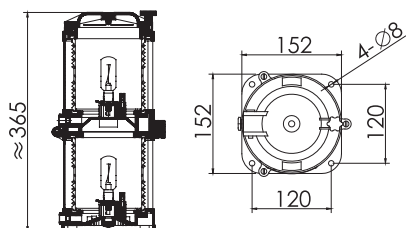
### ■ Products feature:

1. This lamp can be installed conveniently and its bulb can be replaced easily.
2. The shell is made of metal material (steel/stainless steel/brass) by pressing mold, light surface is painted by marine special molding powder which has the feature of corrosion prevention and shock resistance.
3. The lampshade adopts Poly carbonate which has the feature of UV resistance and non-discoloring.
4. There are automatic leak holes on the bottom of light.
5. Cable outside diameter  $\varnothing 11\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008.
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-1D1	3n.m	112.5°	P28S B22d	220V65W 110V65W 24V60W	60cd	IP56	绿 Green	2.8Kg
左舷灯 Port light	CXH2-1D1	3n.m	112.5°					红 Red	2.8Kg
桅灯 Masthead light	CXH3-1D1	6n.m	225°					明 Transparent	2.8Kg
艉灯 Stern light	CXH4-1D1	3n.m	135°					明·黄 Transparent/Yellow	2.8Kg
环照灯 All-round light	CXH6-1D1	3n.m	360°					红·绿·明·黄 Red/Green Transparent/Yellow	2.6Kg



#### ■ The scope of application:

This light fits for the ships with the length 12m or above 12m(<50m) as lamp signal communication when night navigation.

#### ■ Products feature:

- 1.This lamp can be installed conveniently,light bulbs and lamp holder adopts plug-in, and the upper and lower layers can be opened separately, it is convenient to replace the bulb.
- 2.There are automatic leak holes on the bottom of light.
- 3.The shell adopts high-strength engineering plastic with watertight, good corrosion resistance, impact resistance and other characteristics.
- 4.The lampshade adopts Poly carbonate material which has the feature of ultraviolet radiation resistance and non-discoloring.
- 5.The signal lights adopt the signal light' s bulb which conform to the ship norm and the average life not less than 700 hours.
- 6.The signal lights can work normally under the temperature -30℃ ~ +50℃ .
- 7.Cable outside diameter Ø10mm.

#### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008 .
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

#### ■ 适用范围:

该灯具适用于 12 米或 12 米以上小于 50 米各类船舶作夜间航行灯光信号联络。

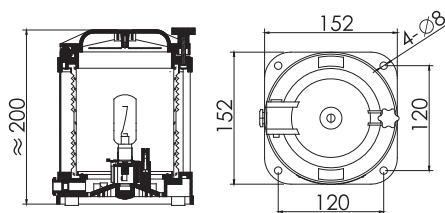
#### ■ 产品特性:

1. 灯具安装方便，灯泡与灯座采用插拔式，且上下层可分别打开，更换灯泡便捷。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用高强度工程塑料，具有水密性好，耐腐，抗冲击等特点。
4. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
5. 灯具采用符合船舶规范的船用信号灯泡，平均寿命不低于 700 小时。
6. 环境温度在 -30℃ ~ +50℃ 的范围内，灯具均能正常工作。
7. 电缆外径 Ø10mm。

#### ■ 采用标准及产品认证:

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-20P	2n.m	112.5°	BAY15d	24V/25W	40cd	IP56	绿 Green	2.3Kg
左舷灯 Port light	CXH2-20P	2n.m	112.5°					红 Red	2.3Kg
桅灯 Masthead light	CXH3-20P	5n.m	225°					明 Transparent	2.1Kg
艉灯 Stern light	CXH4-20P	2n.m	135°	BAY15d/ B15d	24V/15W	30cd		明·黄 Transparent/Yellow	2.2Kg
环照灯 All-round light	CXH6-20P	2n.m	360°	BAY15d	24V/25W	40cd		红·绿·明·黄 Red/Green Transparent/Yellow	2.0Kg



#### ■ 适用范围：

该灯具适用于 12 米或 12 米以上,50 米以下各类船舶作夜间航行灯光信号联络。

#### ■ 产品特性：

1. 灯具安装方便，灯泡与灯座采用插拔式，打开上盖即可更换灯泡。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用高强度工程塑料，具有水密性好，耐腐，抗冲击等特点。
4. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
5. 灯具采用符合船舶规范的船用信号灯泡，平均寿命不低于 700 小时。
6. 环境温度在 -30℃ ~ +50℃ 的范围内，灯具均能正常工作。
7. 电缆外径  $\varnothing 10\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

#### ■ The scope of application:

This light fits for the ships with the length 12m or above 12m(<50m) as lamp signal communication when night navigation.

#### ■ Products feature:

1. This lamp can be installed conveniently, light bulbs and lamp holder adopts plug-in, it can replace the bulb after open the up cover.
2. There are automatic leak holes on the bottom of light.
3. The shell adopts high-strength engineering plastic with watertight, good corrosion resistance, impact resistance and other characteristics.
4. The lampshade adopts Poly carbonate material which has the feature of ultraviolet radiation resistance and non-coloring.
5. The signal lights adopt the signal light's bulb which conform to the ship norm and the average life not less than 700 hours.
6. The signal lights can work normally under the temperature -30℃ ~ +50℃ .
7. Cable outside diameter  $\varnothing 10\text{mm}$ .

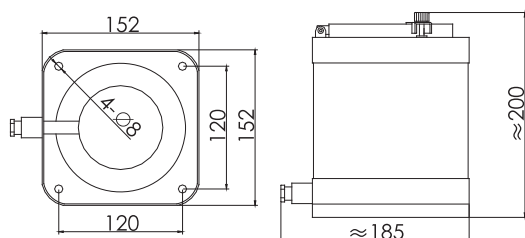
#### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008 .
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-21P	2n.m	112.5°	BAY15d	24V/25W	40cd	IP56	绿 Green	1.2Kg
左舷灯 Port light	CXH2-21P	2n.m	112.5°					红 Red	1.2Kg
桅灯 Masthead light	CXH3-21P	5n.m	225°					明 Transparent	1.2Kg
艉灯 Stern light	CXH4-21P	2n.m	135°	BAY15d/ B15d	24V/15W	30cd	明·黄 Transparent/Yellow	1.2Kg	
环照灯 All-round light	CXH6-21P	2n.m	360°	BAY15d	24V/25W	40cd	红·绿·明·黄 Red/Green Transparent/Yellow	1.0Kg	

# CXH-2C1 | 二号单层航行信号灯

## NO.2 SINGLE NAVIGATION SIGNAL LIGHT



### ■ The scope of application:

This light fits for the ships with the length 12m or above 12m(<50m) as lamp signal communication when night navigation.

### ■ Products feature:

1. This lamp can be installed conveniently and its bulb can be replaced easily.
2. The shell is made of metal material (steel/stainless steel/brass) by pressing mold, light surface is painted by marine special molding powder which has the feature of corrosion prevention and shock resistance.
3. The lampshade adopts Poly carbonate which has the feature of UV resistance and non-discoloring.
4. There are automatic leak holes on the bottom of light.
5. Cable outside diameter is  $\varnothing 9 \sim \varnothing 11$ mm.

### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008.
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)
7. Passed the European Union (CE) certification.

### ■ 适用范围:

该灯具适用于 12 米或 12 米以上, 50 米以下各类船舶作夜间航行灯光信号联络。

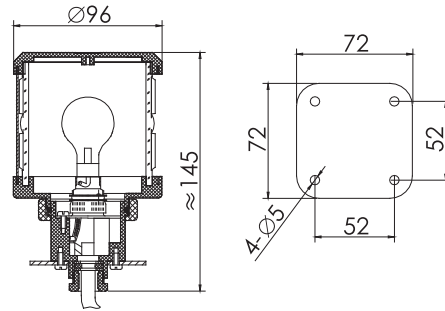
### ■ 产品特性:

1. 灯具安装方便, 灯泡更换便捷。
2. 灯具外壳采用金属材料 (钢质 / 不锈钢 / 铜), 用模具压制成型, 外表面喷涂船舶专用塑粉, 具有防腐, 抗冲击等特点。
3. 灯具灯罩采用聚碳酸酯制成, 具有抗紫外线, 不变色等特点。
4. 灯具底部设有自动漏水孔。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11$ mm。

### ■ 采用标准及产品认证:

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。
7. 通过欧盟 (CE) 认证。

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-2C1	3n.m	112.5°	B15d	24V/30W	IP56	绿 Green	1.7Kg
左舷灯 Port light	CXH2-2C1						红 Red	1.7Kg
桅灯 Masthead light	CXH3-2C1	5n.m	225°				明 Transparent	1.7Kg
艉灯 Stern light	CXH4-2C1	3n.m	135°		24V/15W		明·黄 Transparent/Yellow	1.5Kg
环照灯 All-round light	CXH6-2C1		360°		24V/30W		红·绿·明·黄 Red/Green Transparent/Yellow	1.5Kg



■ 适用范围：

该灯具适用于 12 米以下船舶夜间航行灯光信号联络。

■ 产品特性：

1. 灯具安装方便，灯泡更换便捷，打开上盖即可更换灯泡。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用高强度工程塑料，具有水密性好，耐腐蚀，抗冲击等特点。
4. 灯具灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
5. 灯具采用符合船舶规范的船用信号灯灯泡，平均寿命不低于 700 小时。
6. 环境温度在 -30℃ ~ +50℃ 的范围内，灯具均能正常工作。
7. 电缆外径  $\varnothing 10\text{mm}$ 。

■ 采用标准：

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。

■ The scope of application:

This light fits for the ship with the length less than 12m as lamp signal communication when night navigation.

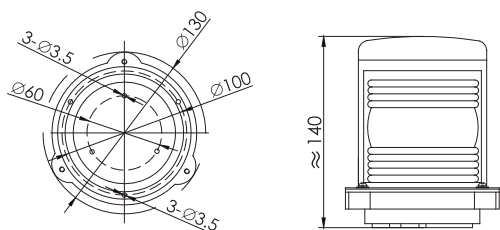
■ Products feature:

1. This lamp can be installed conveniently and its bulb can be replaced easily ,it can replace the bulb after open the up cover.
2. There are automatic leak holes on the bottom of light.
- 3.The shell adopts high-strength engineering plastic,with waterlight, good corrosion resistance, impact resistance and other characteristics
4. The lampshade adopts Poly carbonate which has the feature of UV resistance and non-discoloring.
- 5.The signal lights adopt the signal light' s bulb which conform to the ship norm and the average life not less than 700h.
- 6.The signal lights can work normally under the temperature -30℃ ~ +50℃ .
- 7.Cable outside diameter  $\varnothing 10\text{mm}$ .

■ Adopt standard:

1. Conform to CONVENTION ON THE INTERNATIONAL REGULATIONS FOR PREVENTINGSAT SEA 1972.
2. Conform to international standard of IEC60598-1-2008 .
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-3P	2n.m	112.5°	B15d	24V/25W	40cd	IP56	绿 Green	0.49Kg
左舷灯 Port light	CXH2-3P	2n.m	112.5°					红 Red	0.49Kg
桅灯 Masthead light	CXH3-3P	5n.m	225°		明 Transparent	0.42Kg			
艉灯 Stern light	CXH4-3P	2n.m	135°		明·黄 Transparent/Yellow	0.49Kg			
环照灯 All-round light	CXH6-3P	2n.m	360°		红·绿·明·黄 Red/Green Transparent/Yellow	0.4Kg			



#### ■ The scope of application:

This light fits for the ship with the length less than 12m as lamp signal communication when night navigation.

#### ■ Products feature:

1. This lamp can be installed conveniently and its bulb can be replaced easily, it can replace the bulb after open the up cover.
2. There are automatic leak holes on the bottom of light.
3. The shell is made of high quality steel by pressing mold, light surface is painted by marine special molding powder which has the feature of corrosion prevention and shock resistance.
4. The lampshade adopts good quality glass and it has good function of light transmission.
5. The signal lights adopt the signal light's bulb which conform to the ship norm and the average life not less than 700h.
6. The signal lights can work normally under the temperature  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$ .
7. Cable outside diameter  $\varnothing 14\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to international standard of IEC60598-1-2008.
3. Conform to performance standard of requirement about IMO Res.MSC.253(83).
4. Conform to national standard of GB/T3028-2012.
5. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
6. Passed the European Union (CE) certification.

#### ■ 适用范围:

该灯具适用于 12 米以下船舶夜间航行灯光信号联络。

#### ■ 产品特性:

1. 灯具安装方便，灯泡更换便捷，打开上盖即可更换灯泡。
2. 灯具底部设有自动漏水孔。
3. 灯具外壳采用优质钢板，用模具压制成型，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 灯具灯罩采用优质玻璃制成，透光性好。
5. 灯具采用符合船舶规范的船用信号灯泡，平均寿命不低于 700 小时。
6. 环境温度在  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$  的范围内，灯具均能正常工作。
7. 电缆外径  $\varnothing 14\text{mm}$ 。

#### ■ 采用标准及产品认证:

1. 符合《1972 年国际海上避碰规则》。
2. 符合国际 IEC60598-1-2008 标准。
3. 符合 IMO MSC.253(83) 决议所要求的性能标准。
4. 符合国家 GB/T3028-2012 标准。
5. 符合《钢质海船入级规范》。
6. 通过欧盟 (CE) 认证。

名称 Name	型号 Type	可见距离 Visibility	水平光弧 Level arc	灯座 Lamp holder	灯泡 Bulb	灯泡发光强度 Luminous intensity	防护等级 Protection class	颜色 Color	重量 Weight
右舷灯 Starboard light	CXH1-3	2n.m	112.5°	B15d	24V/25W	40cd	IP55	绿 Green	0.8Kg
左舷灯 Port light	CXH2-3	2n.m	112.5°					红 Red	0.8Kg
桅灯 Masthead light	CXH3-3	5n.m	225°					明 Transparent	0.7Kg
艉灯 Stern light	CXH4-3	2n.m	135°					明·黄 Transparent/Yellow	0.8Kg
环照灯 All-round light	CXH6-3	2n.m	360°					红·绿·明·黄 Red/Green Transparent/Yellow	0.5Kg





CXH4-1

**■ 适用范围：**

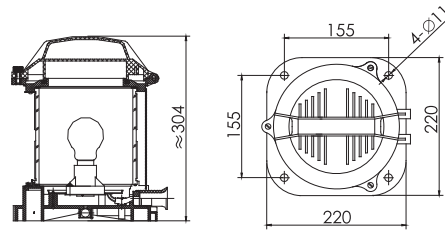
该灯具适用于各类船舶在苏伊士运河作夜间航行灯光信号联络之用。

**■ 产品特性：**

外壳采用高强度工程塑料，具有水密封性好，耐腐，抗冲击等特点；灯罩采用聚碳酸酯制成。灯具安装方便，灯泡更换便捷，底部设有自动漏水孔。电缆外径  $\varnothing 10\text{mm}$ 。

**■ 采用标准：**

符合《1972年国际海上避碰规则》；符合国际 IEC60598-1-2008 标准；符合国家 GB/T3028-2012 标准；符合《钢质海船入级规范》。



**■ the scope of application:**

This light fits for all types of ships for night navigation lights as signal contact purposes in the Suez Canal.

**■ Products feature:**

The shell adopts high-strength engineering plastic, with watertight, good corrosion resistance, impact resistance and other characteristics. The lampshade adopts PC material. This lamp can be installed conveniently, easy to replace the bulb. There are automatic leak holes on the bottom of light. Cable outside diameter  $\varnothing 10\text{mm}$ .

**■ Adopt standard :**

Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972. Conform to international standard of IEC60598-1-2008. Conform to national standard of GB/T3028-2012.

Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.



CXD7

**■ The scope of application:**

This lamp is suitable for communication with Morse signal light recognition for all kinds of vessels.

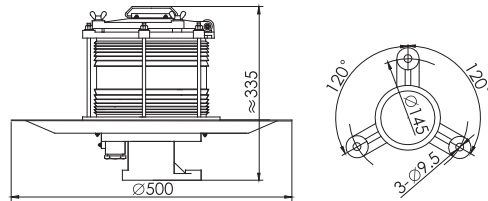
**■ Products feature:**

The shell is made of brass or aluminum by mold casting. The lampshade adopts poly carbonate material which has the feature of ultraviolet radiation resistance and non-discoloring. This lamp adopts sealing structure, good water resistance. Cable outside diameter  $\varnothing 11\text{mm}$ .

**■ Adopt standard and products certification:**

Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972. Conform to international standard of IEC60598-1-2008.

Conform to national standard of GB/T3028-2012. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau. (ZY)



**■ 适用范围：**

该灯具适用于各类船舶作莫氏信号灯光通讯识别之用。

**■ 产品特性：**

外壳采用铜或铝，用模具铸造成型；灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点；灯具采用的密封结构，防水性能良好。电缆外径  $\varnothing 11\text{mm}$ 。

**■ 采用标准及产品认证：**

符合《1972年国际海上避碰规则》；符合国际 IEC60598-1-2008 标准；符合国家 GB/T3028-2012 标准；符合《钢质海船入级规范》。通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。

名称 Name	苏伊士运河艉灯 SUEZ Canal Stern light	莫氏信号灯 Morse signal light
型号 Type	CXH4-1	CXD7
可见距离 Visibility	3n.m	> 5n.m
水平光角 Level arc	135°	360°
颜色 Color	红 Red	明 Transparent
电压 Voltage/ 功率 Power	220V/65W	220V/3X25W
灯座 Lamp holder	B22d	
防护等级 Protection class	IP56	
重量 Weight	2.7kg	7.5kg

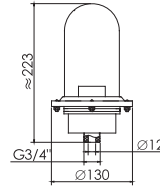
# CXH5 桅顶灯 HEAD LIGHT

**■ 适用范围：**

适用于长度为 50 米或 50 米以上的船舶作夜航灯光信号。

**■ The scope of application:**

CXH5-1/1B fit for the ships with the length 50m or above 50m as lamp signal when night navigation.



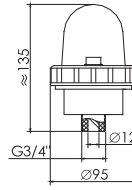
CXH5-1/1B

**■ 适用范围：**

适用于长度为 12 米或 12 米以上 50 米以下的船舶作夜航灯光信号。

**■ The scope of application:**

CXH5-2/2A/2B fit for the ships with the length 12m or above 12m(<50m) as Lamp signal when night navigation.



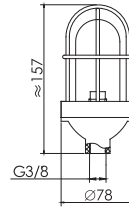
CXH5-2/2A/2B

**■ 适用范围：**

适用于长度为 12 米以下的船舶作夜航灯光信号。

**■ The scope of application:**

CXH5-3 fits for the ships with the length less than 12m as lamp signal when night navigation.



CXH5-3

**■ Products feature:**

1. Lampshade and base with threaded connections, it is convenient to replace the bulb.
2. The lamps adopt prism PC lampshade, Soft light, high luminous intensity.
3. The signal lights adopt the signal light's bulb which conform to the ship norm and the average life not less than 700 hours.
4. The signal light can work normally under the temperature -30°C ~ +50°C .
5. Cable outside diameter ∅9 ~ ∅11mm.

**■ Adopt standard:**

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to national standard of GB/T3028-2012.
3. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

**■ 产品特性：**

1. 灯罩与底座采用螺纹连接，灯泡更换便捷。
2. 灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点。
3. 灯具采用符合船舶规范的船用信号灯泡，平均寿命不低于 700 小时。
4. 环境温度在 -30°C ~ +50°C 的范围内，灯具均能正常工作。
5. 电缆外径 ∅9 ~ ∅11mm。

**■ 采用标准：**

1. 符合《1972 年国际海上避碰规则》。
2. 符合国家 GB/T3028-2012 标准。
3. 符合《钢质海船入级规范》。

型号 Type	CXH5-1	CXH5-1B	CXH5-2	CXH5-2B	CXH5-2A	CXH5-3
可见距离 Visibility	3n.m		2n.m			
水平光弧 Level arc	360°					
灯光颜色 Color of light	红 . 绿 . 明 . 黄 . 蓝 . 紫 Red Green Transparent Yellow Blue Purple		红 . 绿 . 明 . 蓝 Red Green Transparent Blue		红 . 绿 . 明 Red Green Transparent	
电压 Voltage/ 功率 Power	24V/110V/220V/60W		24V/30W		12V/24V/15W	
灯座 Lamp holder	E27		B15d			
材质 Material	铝合金 Aluminum	铜 Brass	铝合金 Aluminum	铜 Brass	工程塑料 Engineering Plastic	工程塑料 Engineering Plastic
防护等级 Protection class	IP56					
重量 Weight	0.7kg	1.44Kg	0.4kg	1.08Kg	0.3kg	0.3kg



CXH7

■ **适用范围：**

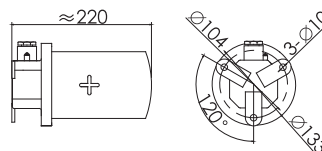
该灯具适用于船舶航行过程中船艏方向的确认。适合作为特定运河的规定信号的识别。

■ **产品特性：**

灯具采用十字形透光孔，使光束更集中；灯罩采用耐热玻璃，透光性更佳。电缆外径  $\varnothing 11\text{mm}$ 。

■ **采用标准：**

符合《1972年国际海上避碰规则》；符合国家 GB/T3028-2012 标准；符合《钢质海船入级规范》；符合《巴拿马运河对船舶要求》。



■ **The scope of application:**

This light is suitable for the process to confirm ship sailing bow direction. Identifying as specific provisions of the canal signals.

■ **Products feature:**

Adopt “+” type loophole, it can make the light beam much more focus. Lampshade is made of good quality Pyrex which has better light transmission. Cable outside diameter  $\varnothing 11\text{mm}$ .

■ **Adopt standard:**

Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972. Conform to national standard of GB/T3028-2012. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to the request which panama canal ask for ship.



CXH19

■ **适用范围：**

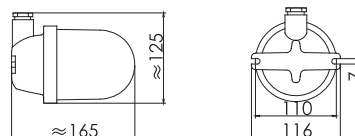
适用于作船舶夜间航行灯光信号。

■ **产品特性：**

灯罩与底座采用螺纹连接，灯泡更换便捷；灯具采用棱镜 PC 灯罩，光线柔和，发光强度高；灯具采用符合船舶规范的船用信号灯灯泡，平均寿命不低于 700 小时；环境温度在  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$  的范围内，灯具均能正常工作。电缆外径  $\varnothing 11\text{mm}$ 。

■ **采用标准：**

符合《1972年国际海上避碰规则》；符合国家 GB/T3028-2012 标准；符合《钢质海船入级规范》。



■ **The scope of application:**

Applied to ships as lamp signal when night navigation.

■ **Products feature:**

Lampshade and base with threaded connections, it is convenient to replace the bulb. The lamps adopt prism PC lampshade. Soft light, high luminous intensity. The signal lights adopt the signal light's bulb which conform to the ship norm and the average life not less than 700 hours. The signal lights can work normally under the temperature  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$ . Cable outside diameter  $\varnothing 11\text{mm}$ .

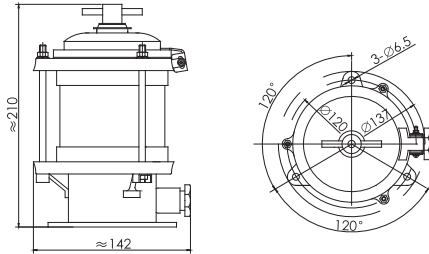
■ **Adopt standard:**

Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972. Conform to national standard of GB/T3028-2012. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

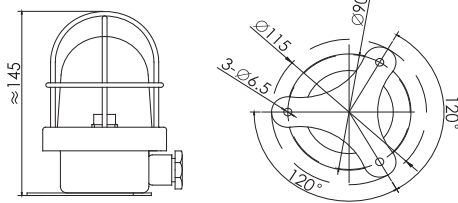
名称 Name	操舵灯 Steering light	信号灯 Signal light
型号 Type	CXH7	CXH19
电压 Voltage/ 功率 Power	220V/60W	
灯座 Lamp holder	E27	
材质 Material	不锈钢 Stainless steel	铜 Copper
防护等级 Protection class	IP56	
重量 Weight	2.3kg	0.8 kg
灯光颜色 Color of light	蓝 Blue	—
可见距离 Visibility	1n.m	—
水平光角 Level arc	—	360°
颜色 Color	—	明、红、绿、黄、紫 Transparent, red, green, yellow, purple

# CXH8-1/CXH8-2

## 锚灯 RIDING LIGHT



CXH8-1



CXH8-2

### ■ The scope of application:

This light is suitable for all type of ships as for navigation lamp signal or use for anchor and take the ground as lamp signal.

### ■ Products feature:

- 1.Lampshade adopts good quality glass by mold pressing.
- 2.The shell structure has good seal performance and it is convenient to install and disassemble.
- 3.Cable outside diameter is  $\varnothing 9 \sim \varnothing 11$ mm.

### ■ Adopt standard:

1. Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972.
2. Conform to national standard of GB/T3028-2012.
3. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

### ■ 适用范围:

该灯具适用于各类船舶作为航行灯光信号或在抛锚、搁浅时作为灯光信号之用。

### ■ 产品特性:

1. 灯罩采用优质玻璃，用模具压制成型。
2. 壳体结构具有密封性能好，拆装方便之特点。
3. 电缆外径  $\varnothing 9 \sim \varnothing 11$ mm。

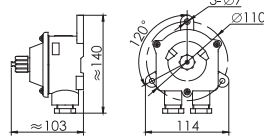
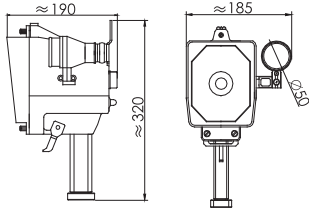
### ■ 采用标准:

1. 符合《1972年国际海上避碰规则》。
2. 符合国家 GB/T3028-2012 标准。
3. 符合《钢质海船入级规范》。

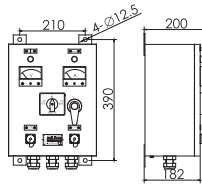
型号 Type	CXH8-1	CXH8-2
可见距离 Visibility	3n.m	2n.m
水平光弧 Level arc	360°	
颜色 Color	明 Transparent	
电压 Voltage	110V/220V	24V
功率 Power	40W	15W/30W
灯座 Lamp holder	E27	B15d
材质 Material	钢 Steel	铝合金 Aluminum Alloy
防护等级 Protection class	IP56	
重量 Weight	1.6kg	0.8kg



CXD8



插座 SocketCXZ8



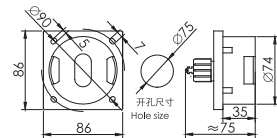
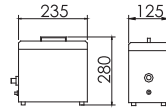
充电箱 Charger box



电池箱 Battery box



插座 SocketCXZ8-1



■ The scope of application:

This light fits for daylight signal communication between the ships above 150T.

■ Products feature:

- 1.The shell is made of high quality cast aluminum by mold pressing.
- 2.With mechanical flash device.
- 3.Light weight, convenient to operate and bring.
- 4.It can be equipped with charger and battery box additionally.
- 5.Cable outside diameter ∅9mm.

■ Adopt standard and products certification:

- 1.Conform to <<MSC.95(72)resolution >>.
- 2.Approved by type approval of China Classification Society(CCS).

■ 适用范围：

该灯具可作为 150T 以上各类船舶之间白昼灯光信号联络之用。

■ 产品特性：

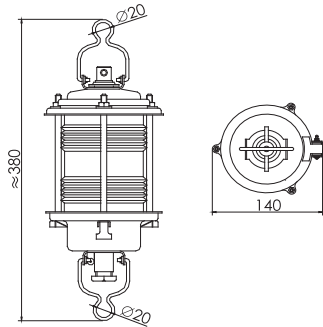
1. 外壳采用优质铸铝，用模具压制成型。
2. 配有机械闪光装置。
3. 重量轻，操作和携带方便。
4. 可另配充电箱和电池箱及插座。
5. 电缆外径 ∅9mm。

■ 采用标准及产品认证：

1. 符合《MSC.95(72) 决议》。
2. 通过中国船级社 (CCS) 型式认可。

CXD8 白昼信号灯 Daylight signal light	
光柱角 Light pillar angle	6°
光强 Light intensity	60,000cd
望远镜倍率 Telescope magnification	4
望远镜视角 Telescope visual angle	3°
可见距离 Visibility	> 2n.m
电压 Voltage/ 功率 Power	24V/60W
灯座 Lamp holder	G6.35
插头 Plug	P20- 四芯 four pin
防护等级 Protection class	IP44
重量 Weight	7.5kg

CXD8-CDX 充电箱 Charger	
输入 Input	AC110V/60Hz AC220V/50Hz/60Hz
输出 Output	AC24V、DC24V
容量 Capacity	7Ah
使用温度 Temperature	-25℃ ~ 45℃
插座 Socket	P20- 四芯 four pin
防护等级 Protection class	IP56
重量 Weight	9.6kg



CXH9

■ **The scope of application:**

Applied to ships as lamp signal identification when night navigation.

■ **Products feature:**

Hanging installation, simple and convenient, Cable outside diameter  $\varnothing 9 \sim \varnothing 11\text{mm}$ .

■ **Adopt standard:**

Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972. Conform to national standard of GB/T3028-2012. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

■ **适用范围:**

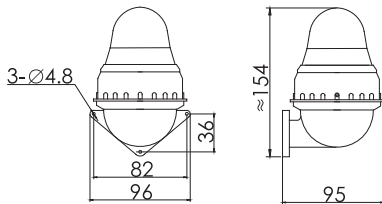
适用于各类船舶作为夜间航行灯光信号识别之用。

■ **产品特性:**

安装方式为悬挂式, 简易方便。电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

■ **采用标准:**

符合《1972年国际海上避碰规则》; 符合 GB/T3028-2012 标准; 符合《钢质海船入级规范》。



CXH12

■ **The scope of application:**

It can be used as starboard light, masthead light, stern light and all-round light in small boats for navigation lamp signal.

■ **Products feature:**

Adopt wave-proof structure. Cable outside diameter  $\varnothing 9 \sim \varnothing 11\text{mm}$ .

■ **Adopt standard:**

Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972. Conform to national standard of GB/T3028-2012. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

■ **适用范围:**

可供小艇等船只作舷灯、桅灯、艉灯、环照灯等航行灯光信号之用。

■ **产品特性:**

采用防海浪式结构。电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

■ **采用标准:**

符合《1972年国际海上避碰规则》; 符合 GB/T3028-2012 标准; 符合《钢质海船入级规范》。

名称 Name	应急灯 Emergency light	艇用信号灯 Signal light for boat
型号 Type	CXH9-1	CXH12
可见距离 Visibility	2n.m	3n.m
颜色 Color	红 Red、绿 Green、明 Transparent	
电压 Voltage/ 功率 Power	110/220V/60W	24V/25W
灯座 Lamp holder	E27	B15d
材质 Material	钢 Steel	工程塑料 Engineering Plastic
防护等级 Protection class	IP55	IP56
重量 Weight	1.4kg	0.4kg

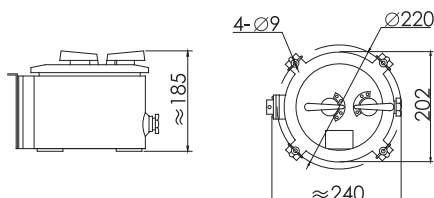
# CXH10-1/CXH13

## 航行信号灯 NAVIGATION SIGNAL LIGHTS



CXH10-1

- **适用范围:**  
适用于各类船舶作为夜间舰船编队航行信号识别。
- **产品特性:**  
可按航行要求变换视角, 调节光强; 壳体采用优质铜或铝铸造成型; 灯具密封性能良好, 能有效防止海水侵入; 电缆外径  $\varnothing 11\text{mm}$ 。
- **采用标准:**  
符合《钢质海船入级规范》。

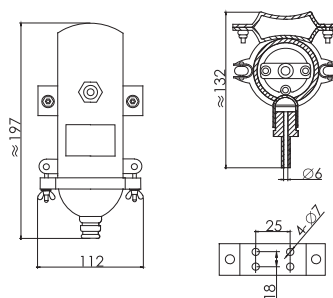


- **The scope of application:**  
Applied to all types of ships as lamp signal identification when the formation ships night navigation.
- **Products feature:**  
It can change perspective and adjust the light intensity according to the navigation requirement. The shell is made of good quality cast brass or cast aluminum. Fine seal performance and can prevent from the sea water intrusion. Cable outside diameter  $\varnothing 11\text{m}$ .
- **Adopt standard:**  
Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.



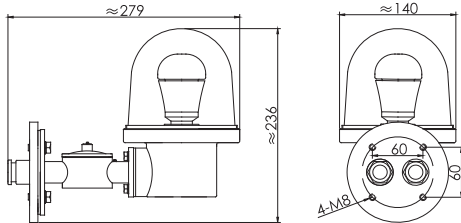
CXH13

- **适用范围:**  
适用于舰船航行时舰艏信号识别。
- **产品特性:**  
壳体采用优质铜铸造成型; 灯具密封性能良好, 能有效防止海水侵入。电缆外径  $\varnothing 11\text{mm}$ 。
- **采用标准:**  
符合《钢质海船入级规范》。

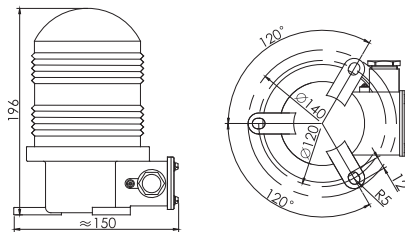


- **The scope of application:**  
Applied to identification when the formation ships sailing.
- **Products feature:**  
The shell is made of good quality cast brass. Fine seal performance and can prevent from the sea water intrusion. Cable outside diameter  $\varnothing 11\text{m}$ .
- **Adopt standard:**  
Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

名称 Name	航迹灯 Wake light	旗杆灯 Flagpole light
型号 Type	CXH10-1	CXH13
可见距离 Visibility	2n.m	—
水平光角 Horizontal angle	10°	—
垂直光角 Vertical angle	30°	—
电压 Voltage/ 功率 Power	220V/2X25W	220V25W
灯座 Lamp holder	B22d	E27
材质 Material	铜 / 铝 Brass/Aluminum	铜 Brass
防护等级 Protection class	IP56	
重量 Weight	9.3kg/5.3kg	1.3kg



CXH11



CXH17

■ **The scope of application:**

Applied to the ships with the length 50m or above 50m as identify signal when night navigation.

■ **Products feature:**

Lampshade and base with threaded connections, it is convenient to replace the bulb. The shell is made of good quality brass foundry. The lampshade adopts poly carbonate material which has the feature of ultraviolet radiation resistance and non-discoloring. Cable outside diameter  $\varnothing 11\text{mm}$ .

■ **Adopt standard and production certification:**

Conform to INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1972. Conform to international standard of IEC60598-1-2008. Conform to national standard of GB/T3028-2012. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. CXH17 Approved by China Classification Society (CCS) and Type Approval of China Fishery Inspection Bureau (ZY).

■ **适用范围:**

适用于 50 米或 50 米以上各类船舶作为夜间航行灯光信号识别之用。

■ **产品特性:**

灯罩与外壳螺纹连接，灯泡更换便捷；外壳采用优质铜铸造成型；灯罩采用聚碳酸酯制成，具有抗紫外线，不变色等特点；电缆外径  $\varnothing 11\text{mm}$ 。

■ **采用标准及产品认证:**

符合《1972 年国际海上避碰规则》；符合国际 IEC60598-1-2008 标准；符合 GB/T3028-2012 标准；符合《钢质海船入级规范》；通过中国船级社 (CCS) 和中国渔检局 (ZY) 型式认可。

名称 Name	型号 Type	可见距离 Visibility	水平光角 Level arc	灯座 Lamp holder	电压 / 功率 Voltage/Power	防护等级 Protection class	颜色 Color	重量 Weight
旋转式警灯 Rotating warning light	CXH11-1	> 3n.m	360°	B22d	220V/65W 110V/65W 24V/60W	IP56	红、黄、紫 Red Yellow Purple	4.7 Kg
闪光灯 Flashing light	CXH11-2			E27			明、红、绿、黄、紫 Transparent, Red, Green, Yellow, Purple	
信号灯 Signal light	CXH17							1.4Kg





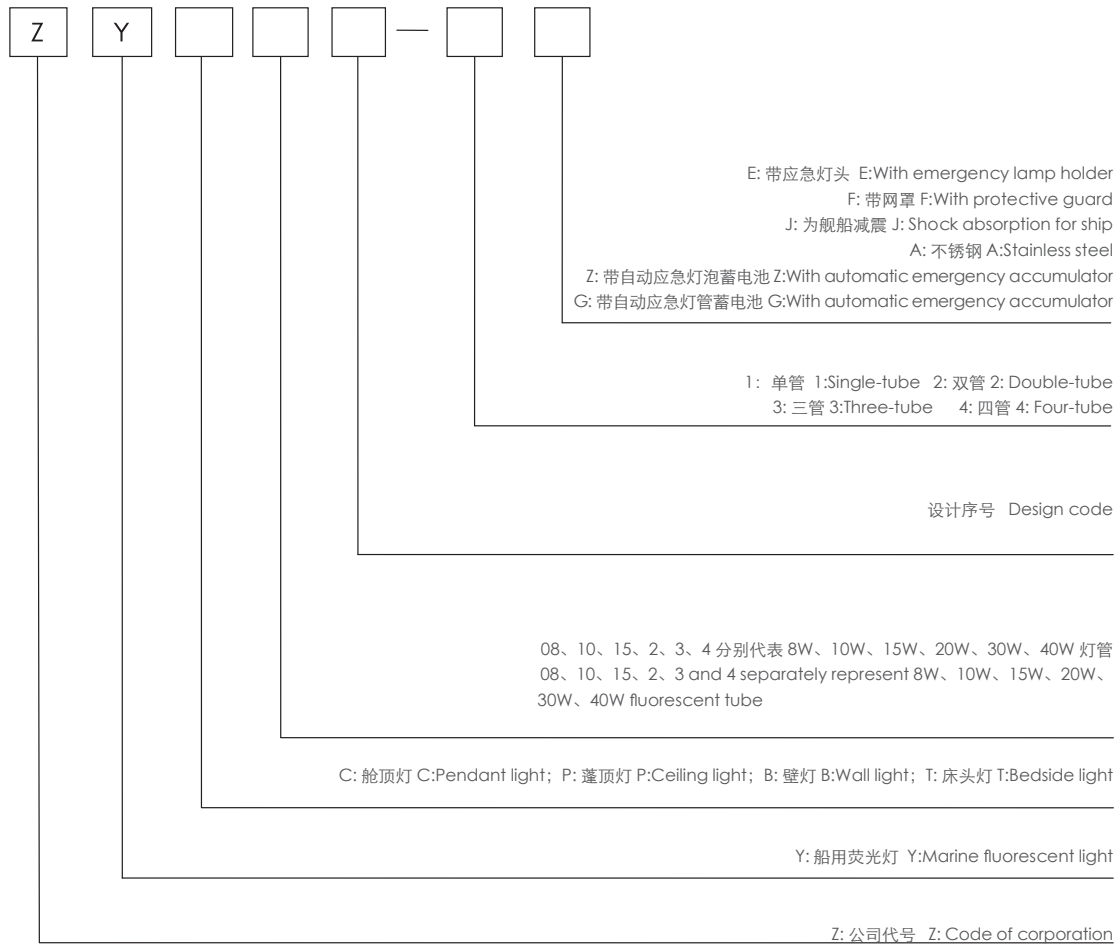


# 荧光灯具

Fluorescent lamps and lanterns

## ■ 船用荧光灯具型号及性能说明

## The type and remarks for marine fluorescent lights

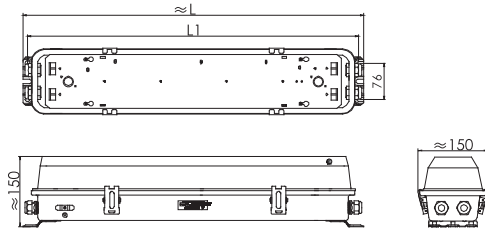


## ■ 说明:

1. 荧光照明灯具适用于交流电路中，额定电压为 220V 和 110V，频率为 50Hz 和 60Hz。
2. 灯具的防护等级分为 IP20、IP22、IP34、IP44、IP55、IP56、IP67、IP68
3. 灯具不提供荧光灯管和应急灯泡，需要配置请另行订货。
4. 灯具可配置应急灯头、网罩、自动应急灯泡蓄电池、自动应急灯管蓄电池和减震装置。订货时请正确标注型号：需带应急灯头，在型号后标注“E”；需带网罩，在型号后标注“F”；需带网罩和应急灯头，在型号后标注“EF”；需带自动应急灯泡蓄电池和网罩，在型号后标注“EZF”；需带自动应急灯管蓄电池、网罩和减震装置，在型号后标注“EZFJ”；需带自动应急灯管蓄电池、网罩和减震装置，在型号后标注“GFJ”

## ■ Remark:

1. Fluorescent lights are suitable to use in circuit of AC, the voltage rating is 220V or 110V, the frequency is 50Hz or 60Hz.
2. The protection class: IP20, IP22, IP34, IP44, IP55, IP56, IP67, IP68
3. The lights don't match with fluorescent tube and emergency bulb, if need, please order separately.
4. The light can match emergency lamp holder, protective guard, Auto-emergency battery for tube or bulb, and shock absorption. So when order, please add some letter after type: E means emergency lamp holder, F means protective guard, EF means both emergency lamp holder and protective guard, EZF means automatic emergency battery for bulb and protective guard, EZFJ means automatic emergency battery for tube, protective guard and shock absorption, GFJ means automatic emergency battery for tube, protective guard and shock absorption.



### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ .

### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant polycarbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "⊕" connection bridge.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. The main components of light be fixed on the reflector, convenient to remove for servicing.
7. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用，工作环境温度  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ 。

### ■ 产品特性:

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外装有带“⊕”的接线桥架。
4. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 灯具的主要元器件安装在反光板上，拆卸、维修便捷。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

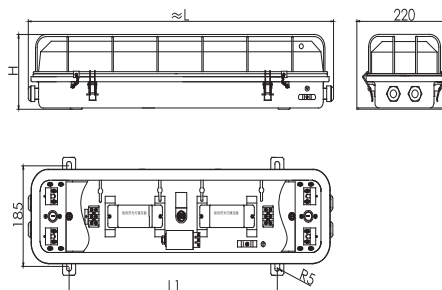
### ■ 采用标准及产品认证:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

型号 Type	ZYC20-1	ZYC20-1E	ZYC20-2	ZYC20-2E	ZYC40-1	ZYC40-1E	ZYC40-2	ZYC40-2E
功率 Power	1X20W		2X20W		1X40W		2X40W	
重量 (Kg) Weight	4.5	4.6	5.0	5.1	8.5	8.6	9.0	9.1
L(mm)	725				1340			
L1(mm)	705				1320			
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP67							

# ZYC22/32/42 | 荧光舱顶灯

## FLUORESCENT PENDANT LIGHT



### ■ 适用范围：

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用，工作环境温度 -25℃ ~ +55℃。

### ■ 产品特性：

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外装有带“⊕”的接线桥架。
4. 灯具可配置 B15d 灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is -25℃ ~ +55℃.

### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant polycarbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "⊕" connection bridge.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

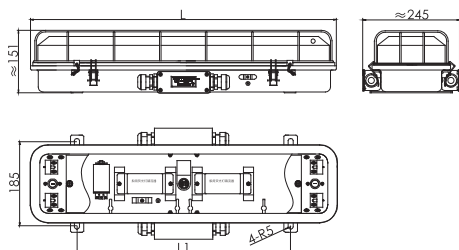
1. Conform to international standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).

型号 Type	ZYC22 -2/J	ZYC22 -2E/2EJ	ZYC22 -2F/2FJ	ZYC22 -2EF/2EFJ	ZYC22 -2G/2GJ	ZYC22 -2GF/2GFJ	ZYC22 -2EZ/2EZJ	ZYC22 -2EFZ/2EFZJ
L(mm)	≈ 712							
L1(mm)	480							
重量 (Kg)Weight	5.4/5.6	5.5/5.7	6.0/6.2	6.0/6.2	6.2/6.4	6.7/6.9	6.3/6.5	6.8/7.0
型号 Type	ZYC32-2/J	ZYC32-2E/2EJ	ZYC32-2F/2FJ	ZYC32-2EF/2EFJ	ZYC32-2G/2GJ	ZYC32-2GF/2GFJ	ZYC32-2EZ/2EZJ	ZYC32-2EFZ/2EFZJ
L(mm)	≈ 1002							
L1(mm)	700							
重量 (Kg)Weight	6.9/7.1	7.0/7.2	7.7/7.9	7.6/7.8	7.7/7.9	8.5/8.7	7.8/8.0	8.4/8.6
型号 Type	ZYC42-2/J	ZYC42-2E/2EJ	ZYC42-2F/2FJ	ZYC42-2EF/2EFJ	ZYC42-2G/2GJ	ZYC42-2GF/2GFJ	ZYC42-2EZ/2EZJ	ZYC42-2EFZ/2EFZJ
L(mm)	≈ 1320							
L1(mm)	700							
重量 (Kg)Weight	8.5/8.7	8.6/8.8	9.5/9.7	9.4/9.6	9.3/9.5	10.3/10.5	9.4/9.6	10.2/10.4
H(mm)	130		151		130	151	130	151
功率 Power	2X20W 2X30W 2X40W							
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP67							

# ZYC23/33/43

## 荧光舱顶灯

## FLUORESCENT PENDANT LIGHT



### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ .

### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant poly carbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "⊕" connection bridge.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to international standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用，工作环境温度  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ 。

### ■ 产品特性:

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外装有带“⊕”的接线桥架。
4. 灯具可配置 B15d 灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证:

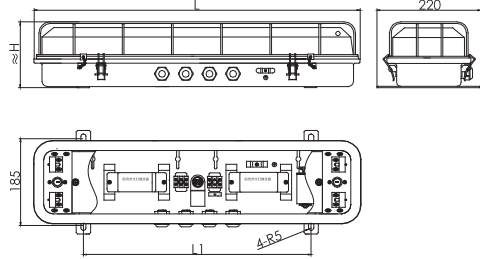
1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

型号 Type	ZYC23-2/J	ZYC23-2E/2EJ	ZYC23-2F/2FJ	ZYC23-2EF/2EFJ	ZYC23-2G/2GJ	ZYC23-2GF/2GFJ	ZYC23-2EZ/2EZJ	ZYC23-2EFZ/2EFZJ
L(mm)	690							
L1(mm)	480							
重量 (Kg)Weight	5.3/5.5	5.4/5.6	5.9/6.1	6.0/6.2	6.1/6.3	6.7/6.9	6.2/6.4	6.8/7.0
型号 Tape	ZYC33-2/J	ZYC33-2E/2EJ	ZYC33-2F/2FJ	ZYC33-2EF/2EFJ	ZYC33-2G/2GJ	ZYC33-2GF/2GFJ	ZYC33-2EZ/2EZJ	ZYC33-2EFZ/2EFZJ
L(mm)	990							
L1(mm)	700							
重量 (Kg)Weight	7.1/7.3	7.2/7.4	7.8/8.0	8.0/8.2	7.9/8.1	8.7/8.9	8.0/8.2	8.8/9.0
型号 Tape	ZYC43-2/J	ZYC43-2E/2EJ	ZYC43-2F/2FJ	ZYC43-2EF/2EFJ	ZYC43-2G/2GJ	ZYC43-2GF/2GFJ	ZYC43-2EZ/2EZJ	ZYC43-2EFZ/2EFZJ
L(mm)	1308							
L1(mm)	700							
重量 (Kg)Weight	8.6/8.8	8.7/8.9	9.6/9.8	9.7/9.9	9.4/9.6	10.4/10.6	9.5/9.7	10.5/10.7
H(mm)	130		151		130	151	130	151
功率 Power	2X20W 2X30W 2X40W							
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP67							

# ZYC24/34/44

## 荧光舱顶灯

## FLUORESCENT PENDANT LIGHT



### ■ 适用范围：

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用，工作环境温度 -25℃~ +55℃。

### ■ 产品特性：

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外装有带“⊕”的接线桥架。
4. 灯具可配置 B15d 灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
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### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is -25℃ ~ +55℃.

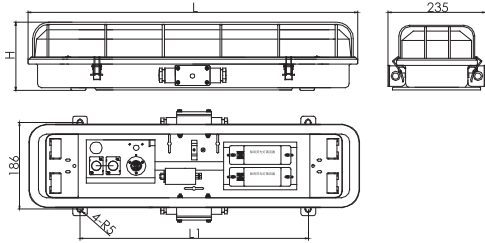
### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant polycarbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "⊕" connection bridge.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to international standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).

型号 Type	ZYC24-2/J	ZYC24-2E/2EJ	ZYC24-2F/2FJ	ZYC24-2EF/2EFJ	ZYC24-2G/2GJ	ZYC24-2GF/2GFJ	ZYC24-2EZ/2EZJ	ZYC24-2EFZ/2EFZJ
L(mm)	690							
L1(mm)	480							
重量 (Kg) Weight	5.4/5.6	5.5/5.7	6.0/6.2	6.0/6.2	6.2/6.4	6.7/6.9	6.3/6.5	6.8/7.0
型号 Type	ZYC34-2/J	ZYC34-2E/2EJ	ZYC34-2F/2FJ	ZYC34-2EF/2EFJ	ZYC34-2G/2GJ	ZYC34-2GF/2GFJ	ZYC34-2EZJ	ZYC34-2EFZ/2EFZJ
L(mm)	990							
L1(mm)	700							
重量 (Kg) Weight	6.9/7.1	7.0/7.2	7.7/7.9	7.6/7.8	7.7/7.9	8.5/8.7	7.8/8.0	8.4/8.6
型号 Type	ZYC44-2/J	ZYC44-2E/2EJ	ZYC44-2F/2FJ	ZYC44-2EF/2EFJ	ZYC44-2G/2GJ	ZYC44-2GF/2GFJ	ZYC44-2EZ/2EZJ	ZYC44-2EFZ/2EFZJ
L(mm)	1308							
L1(mm)	700							
重量 (Kg) Weight	8.5/8.7	8.6/8.8	9.5/9.7	9.4/9.6	9.3/9.5	10.3/10.5	9.4/9.6	10.2/10.4
H(mm)	130		151		130	151	130	151
功率 Power	2X20W 2X30W 2X40W							
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP67							



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This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ .

### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant poly carbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "Ⓢ" connection bridge.
4. Equipped with 2C B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark. The lamp holder is spring holder which can make excellent connection between tube and holder in the case of shakes sharply.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to international standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
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### ■ 产品特性:

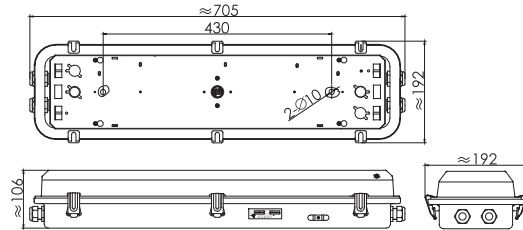
1. 灯壳采用优质冷轧板拉伸成型，表面经过绿色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外装有带“Ⓢ”的接线桥架。
4. 灯具可配置 2C15 灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。日光灯座采用弹簧灯座，在晃动激烈的情况下，灯管与灯座也能保持良好的接触。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

型号 Type	ZYC26 -1/1E	ZYC26 -1F/1EF	ZYC26 -2/2E	ZYC26 -2F/2EF	ZYC46 -1/1E	ZYC46 -1F/1EF	ZYC46 -2/2E	ZYC46 -2F/2EF
L(mm)	715				1333			
L1(mm)	500				1100			
重量 (Kg) Weight	5.0/5.1	5.5/5.6	5.5/5.6	6.0/6.1	10.0/10.1	11.0/11.1	10.5/10.6	11.5/11.6
H(mm)	130	150	130	150	130	150	130	150
功率 Power	1X20W		2X20W		1X40W		2X40W	
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP67							





#### ■ 适用范围：

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用，工作环境温度  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ 。

#### ■ 产品特性：

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外装有带“⊕”的接线桥架。
4. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 灯具的主要元器件安装在反光板上，拆卸、维修便捷。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

#### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ .

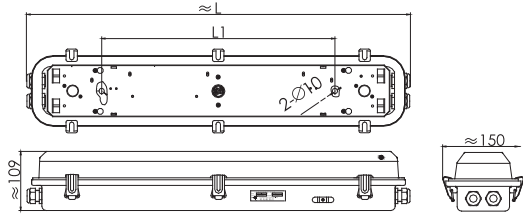
#### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant polycarbonate plastic by injection forming, lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "⊕" connection bridge.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. The main components are installed on the reflector of light, dis-assembly, maintenance is convenient.
7. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to international standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

型号 Type	ZYC27-1	ZYC27-1E	ZYC27-1G	ZYC27-1EZ	ZYC27-2	ZYC27-2E	ZYC27-2G	ZYC27-2EZ
功率 Power	1X20W				2X20W			
重量 (Kg) Weight	4.6	4.7	5.4	5.5	5.4	5.5	6.2	6.3
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP67							



### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ .

### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant poly carbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "Ⓢ" connection bridge.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. The main components are installed on the reflector of light, dis-assembly, maintenance is convenient.
7. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to international standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用，工作环境温度  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ 。

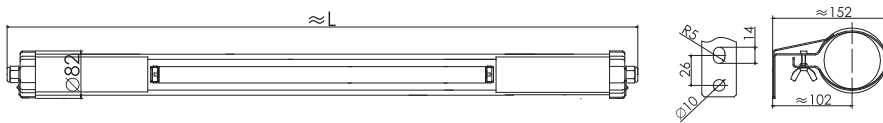
### ■ 产品特性:

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外装有带“Ⓢ”的接线桥架。
4. 灯具可配置 B15d 灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 灯具的主要元器件安装在反光板上，拆卸、维修便捷。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

型号 Type	ZYC28-1/1E	ZYC28-1G/1EZ	ZYC28-2/2E	ZYC28-2G/2EZ	ZYC48-1/1E	ZYC48-1G/1EZ	ZYC48-2/2E	ZYC48-2G/2EZ
L(mm)	705				1350			
L1(mm)	430				950			
重量 (Kg) Weight	4.0/4.1	4.8/4.9	4.3/4.4	5.1/5.2	8.0/8.1	8.8/8.9	8.3/8.4	9.1/9.2
功率 Power	1X20W		2X20W		1X40W		2X40W	
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP67							



#### ■ 适用范围：

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用，工作环境温度  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ 。

#### ■ 产品特性：

1. 体积紧凑，外观精美。
2. 灯具采用的密封结构，具有高防水能力。
3. 灯具内部配置补偿电容，提高功率因数，减少损耗。
4. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。
5. 安装尺寸可调节，安装简便。

#### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

#### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc.). The temperature of work environment is  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ .

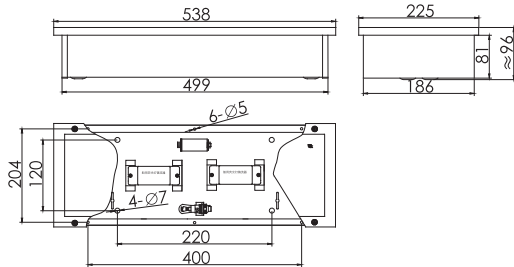
#### ■ Products feature:

1. Compact size, elegant appearance.
2. The lights adopt sealing structure with high waterproof ability.
3. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
4. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{mm}$ .
5. Installation size is adjustable, convenient installation.

#### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).

型号 Type	ZYC29-1	ZYC49-1
功率 Power	1X20W	1X40W
L(mm)	1135	1737
重量 (Kg) Weight	3.7	5.0
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ	
功率因数 Power factor	> 0.85	
灯座 Lamp holder	G13	
防护等级 Protection class	IP67	



#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places.

#### ■ Products feature:

- 1.The shell adopts good quality cold-rolled plate by mold pressing ,surface is powder coated after anti-acid white.
- 2.Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
- 3.Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights,on the lampshade with a red remark.
- 4.Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
- 5.Mounting type: recessed type ,fixed on the top of the tank ,also can be fixed to the beam.
- 6.Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard:

- 1.Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
- 2.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

#### ■ 适用范围:

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

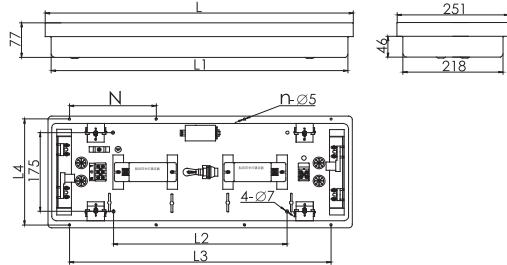
#### ■ 产品特性:

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩整体采用乳白色聚碳酸酯注塑成型，不变色，韧性好，光线柔和及透光性好。
3. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
4. 灯具内部配置补偿电容，提高功率因数，减少损耗。
5. 灯具安装方式为嵌入式，既可固定在舱顶上，也可固定在横梁上。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

型号 Type	ZYP15-1	ZYP15-1E	ZYP15-2	ZYP15-2E
功率 Power	1X15W		2X15W	
重量 ( Kg ) Weight	3.6	3.7	4.2	4.3
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ			
功率因数 Power factor	> 0.85			
灯座 Lamp holder	G13			
防护等级 Protection class	IP44			



### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

### ■ 产品特性：

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩整体采用乳白色聚碳酸酯注塑成型，不变色，韧性好，光线柔和及透光性好。
3. 灯罩与壳体用翻板弹簧固定，结构牢固。
4. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 灯具安装方式为嵌入式，既可固定在舱顶上，也可固定在横梁上。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places.

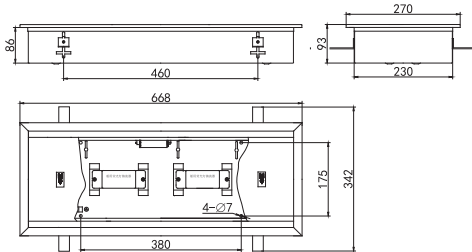
### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
3. The lampshade and the shell are fixed with turn plate spring, with firm structure.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
7. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

型号 Type	ZYP20-2	ZYP20-2E	ZYP20-2G	ZYP20-2EZ	ZYP40-2	ZYP40-2E	ZYP40-2G	ZYP40-2EZ
功率 Power	2X20W				2X40W			
L(mm)	668				1275			
L1(mm)	645				1252			
L2(mm)	378				1085			
L3(mm)	NX3=190 x 3=570				NX4=295 x 4=1180			
L4(mm)	235				232			
n	8- $\varnothing$ 5				10- $\varnothing$ 5			
重量 ( Kg ) Weight	4.6	4.7	5.4	5.5	8.4	8.5	9.2	9.3
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ							
功率因数 Power factor	> 0.85							
灯座 Lamp holder	G13							
防护等级 Protection class	IP44							



#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places.

#### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
3. The lampshade and the shell are fixed with turn plate spring, with firm structure. Easy to open and close, convenient maintain.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
7. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Passed the European Union (CE) certification.

#### ■ 适用范围:

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

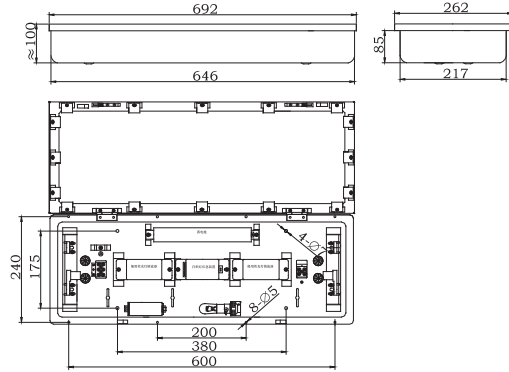
#### ■ 产品特性:

1. 灯壳采用优质冷轧板焊接成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯，不变色，韧性好，光线柔和及透光性好。
3. 灯罩与壳体用弹簧钢片固定，易于打开和关闭，便于维护。
4. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 灯具安装方式为嵌入式，既可固定在舱顶上，也可固定在横梁上。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过欧盟 (CE) 认证。

型号 Tape	ZYP21-2	ZYP21-2E	ZYP21-2G	ZYP21-2EZ
功率 Power	2X20W			
重量 ( Kg ) Weight	5.0	5.1	5.8	5.9
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ			
功率因数 Power factor	> 0.85			
灯座 Lamp holder	G13			
防护等级 Protection class	IP44			



#### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

#### ■ 产品特性：

1. 灯壳采用优质冷轧板冲压成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯，不变色，韧性好，光线柔和及透光性好。
3. 灯罩与壳体用弹簧和铰链固定，易于打开和关闭，便于维护。
4. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 灯具安装方式为嵌入式，既可固定在舱顶上，也可固定在横梁上。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places.

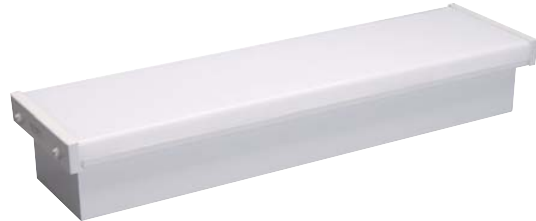
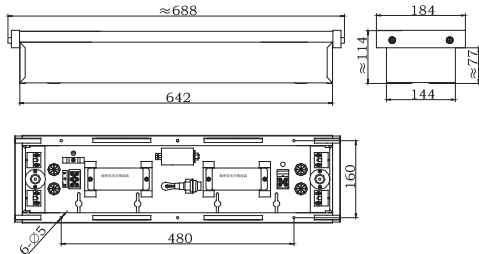
#### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
3. The lampshade and the shell are fixed with turn plate spring, with firm structure. Easy to open and close, convenient maintain.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
7. Cable outside diameters  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

型号 Type	ZYP22-2	ZYP22-2E	ZYP22-2G	ZYP22-2EZ
功率 Power	2X20W			
重量 ( Kg ) Weight	6.0	6.1	6.8	6.9
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ			
功率因数 Power factor	> 0.85			
灯座 Lamp holder	G13			
防护等级 Protection class	IP44			



#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places.

#### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
3. The lampshade and the shell are fixed with ABS plate, with firm structure. Small volume, beautiful appearance.
4. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
6. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
7. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

#### ■ 适用范围:

该灯具适用于各类船舶干燥舱室, 如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

#### ■ 产品特性:

1. 灯壳采用优质冷轧板焊接成型, 表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯压制成型, 不变色, 韧性好, 光线柔和及透光性好。
3. 灯罩与壳体用 ABS 端板固定, 体积紧凑, 外观精美。
4. 灯具可配置 B15d 应急灯座, 用于安装 24V/15W 应急灯泡, 作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容, 提高功率因数, 减少损耗。
6. 灯具安装方式为嵌入式, 固定在横梁上。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证:

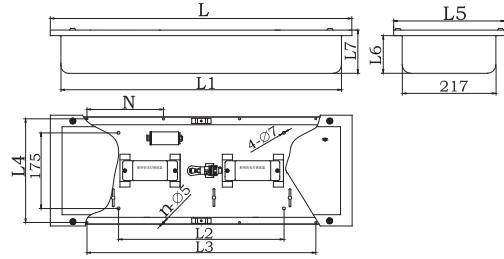
1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

型号 Tape	ZYP24-1	ZYP24-1E	ZYP24-2	ZYP24-2E
功率 Power	1X20W		2X20W	
重量 ( Kg ) Weight	4.3	4.4	4.9	5.0
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ			
功率因数 Power factor	> 0.85			
灯座 Lamp holder	G13			
防护等级 Protection class	IP44			



# ZYP25/35/45 | 荧光蓬顶灯

## FLUORESCENT CEILING LIGHT



### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

### ■ 产品特性：

1. 灯壳采用优质冷轧板焊接成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯，不变色，韧性好，光线柔和及透光性好。
3. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
4. 灯具内部配置补偿电容，提高功率因数，减少损耗。
5. 灯具安装方式为嵌入式，既可固定在舱顶上，也可固定在横梁上。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places.

### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
3. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
4. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
5. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
6. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

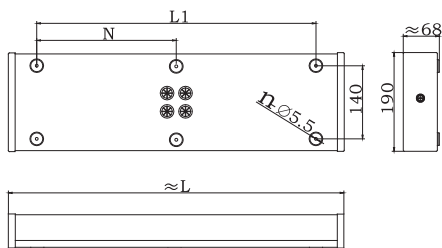
### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

型号 Type	ZYP25-2/E	ZYP25-2G/2EZ	ZYP35-2/E	ZYP35-2G/2EZ	ZYP45-2/E	ZYP45-2G/-2EZ
功率 Power	2X20W		2X30W		2X40W	
L(mm)	692		994		1304	
L1(mm)	646		952		1263	
L2(mm)	380		580		870	
L3(mm)	NX3=175 x 3=525		NX3=267 x 3=801		NX4=278 x 4=1112	
L4(mm)	240				235	
L5(mm)	262				258	
L6(mm)	85				89	
L7(mm)	≈ 100				≈ 105	
n	8-ε 5				10-ε 5	
重量 (Kg) Weight	4.8/4.9	5.6/5.7	8.0/8.1	8.8/8.9	10.1/10.2	10.8/10.9
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ					
功率因数 Power factor	> 0.85					
灯座 Lamp holder	G13					
防护等级 Protection class	IP44					

# ZYP28/ZYP48

## 荧光蓬顶灯 FLUORESCENT CEILING LIGHT



### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels , such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places .

### ■ Products feature:

- 1.The shell adopts good quality cold-rolled plate by mold pressing ,surface is powder coated after anti-acid white.
- 2.Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
3. The lampshade and the shell are fixed with ABS plate , with firm structure.beautiful appearance,easy disassembly and maintain.
- 4.Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights,on the lampshade with a red remark.
- 5.Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
- 6.Mounting type: recessed type ,fixed on the top of the tank ,also can be fixed to the beam.
- 7.Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

- 1.Conform to standard of IEC60598-1-2008.
- 2.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
- 3.Approved by China Classification Society(CCS).
- 4.Passed the European Union (CE) certification.

### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

### ■ 产品特性：

1. 底壳采用优质冷轧板冲压成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯压制成型，不变色，韧性好，光线柔和及透光性好。
3. 灯罩与底壳通过 ABS 端板和螺钉固定，外观精美，拆卸方便，易于维护。
4. 灯具可配置 B15d 应急灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
5. 灯具内部配置补偿电容，提高功率因数，减少损耗。
6. 灯具安装方式：既可固定在舱顶上，也可固定在横梁上。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

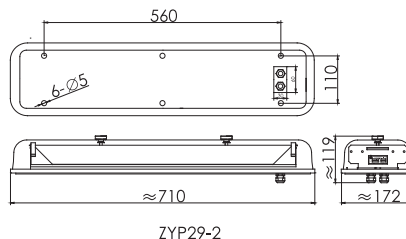
型号 Type	ZYP28-2	ZYP28-2E	ZYP48-2	ZYP48-2E
L	≈ 645		≈ 1255	
L1	530		1120	
n	4- $\varnothing$ 5.5		6- $\varnothing$ 5.5	
N	—		560	
功率 Power	2X20W		2X40W	
重量 ( Kg ) Weight	3.5	3.6	6.9	7.0
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ			
功率因数 Power factor	> 0.85			
灯座 Lamp holder	G13			
防护等级 Protection class	IP44			

# ZYP29/ZYP49 | 荧光蓬顶灯

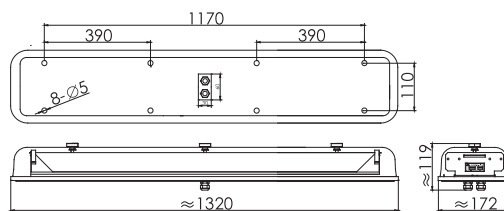
## FLUORESCENT CEILING LIGHT



ZYP29-2



ZYP29-2



ZYP49-2

### ■ 适用范围：

该灯具适用于各类船舶的厨房、卫生间、盥洗室、管弄等潮湿环境照明之用。

### ■ 产品特性：

1. 底板采用优质不锈钢板，增加了灯具的强度。
2. 灯罩采用透明的聚碳酸酯注塑成型，光强度高。
3. 灯罩与灯体采用螺栓固定，外观精美，拆卸方便，易于维护。
4. 灯具内部配置补偿电容，提高功率因数，减少损耗。
5. 灯具安装方式：既可固定在舱顶上，也可固定在横梁上。
6. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

### ■ The scope of application:

This products designed for illuminating on the wet environment in all kinds of ship, such as kitchen, bathroom, washing room etc.

### ■ Products feature:

1. The shell is made of good quality stainless steel which can improve strength.
2. The shade is made of oral poly carbonate with transparency by compression molding, with the feature of high light intensity.
3. The shade and body of light be fixed by bolt and screw, with the feature of delicate appearance, easy to disassemble and maintaining.
4. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
5. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
6. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to standard of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Approved by China Classification Society (CCS).
4. Passed the European Union (CE) certification.

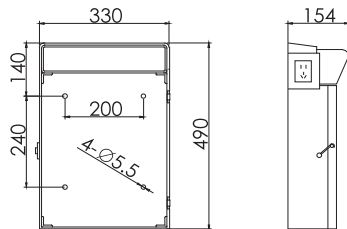
型号 Type	ZYP29-2	ZYP49-2
功率 ( W ) Power	2X20	2x40
重量 ( Kg ) Weight	5.3	7.5
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ	
功率因数 Power factor	> 0.85	
灯座 Lamp holder	G13	
防护等级 Protection class	IP44	

# ZYB17-A-B-G | 荧光镜前灯

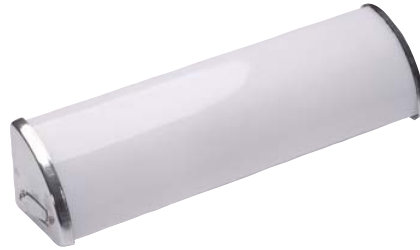
## FLUORESCENT MIRROR LIGHT



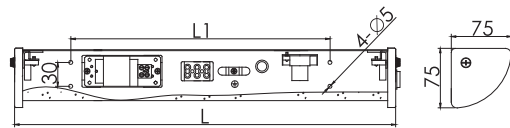
ZYB17-G



- **适用范围:**  
供船舶盥洗室作镜前照明和放置洗涤物品。
- **产品特性:**  
灯体用塑料注塑而成，外形美观。灯体侧面带开关和插座。
- **采用标准:**  
符合国际 IEC60598-1-2008 标准。符合《钢质海船入级规范》。
- **The scope of application:**  
The products are designed as mirror light with function to hold some washable items at the bathroom in ship.
- **Products feature:**  
The body of light is made of plastic by injection molding with beauty shape, switch and socket on the side of body.
- **Adopt standard :**  
Conform to standard of IEC60598-1-2008; Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.



ZYB17-A/B



- **适用范围:**  
该灯具适用于各类船舶盥洗室和浴室作镜前照明。
- **产品特性:**  
灯壳采用优质冷轧板冲压成型，灯罩采用乳白色聚碳酸酯。灯具带开关装置。
- **采用标准及产品认证:**  
符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；通过欧盟 (CE) 认证。
- **The scope of application:**  
The products are designed as mirror light to use in the washing room and bathroom in ship.
- **Products feature:**  
The shell of light is made of good quality cold rolled steel sheets by compression molding. The shade of light adopt the figure oral poly carbonate material. The light matched switch device.
- **Adopt standard and products certification:**  
Conform to standard of IEC60598-1-2008; Conform to GRADE ENTRY NORMS FOR STEEL SHIPS; Passed the European Union (CE) certification.

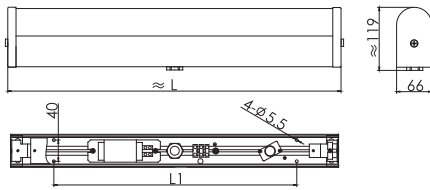
型号 Type	ZYB17-A	ZYB17-B	ZYB17-G
L(mm)	330	480	-
L1(mm)	254	324	-
重量 (Kg)Weight	1.0	1.20	5.2
功率 Power	1X8W	1X12W	1X8W
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ		
灯座 Lamp holder	G5		
防护等级 Protection class	IP22		IP34

# ZYB17-C/D/E/F

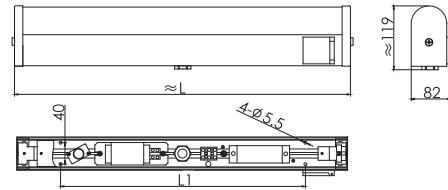
## 荧光镜前灯 FLUORESCENT MIRROR LIGHT



ZYB17-C/E



ZYB17-D/F



### ■ 适用范围：

该灯具适宜各类船舶的走廊、洗衣间、盥洗室、浴室及船员休息室等潮湿场所作照明之用。

### ■ 产品特性：

1. 灯壳采用优质铝型材，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯模压成型，不变色，韧性好，光线柔和及透光性好。
3. 灯罩与底壳通过 ABS 端板和螺钉固定，外观精美，拆卸方便，易于维护。
4. ZYB17-D/F 附带插座。为保证用电安全，并装有隔离变压器。
5. 电缆外径  $\varnothing 8 \sim \varnothing 10\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过欧盟 (CE) 认证。

### ■ The scope of application:

The products are designed for illumination as mirror light at the passage and moist place such as laundry room or washing room, bathroom and rest room for etc.

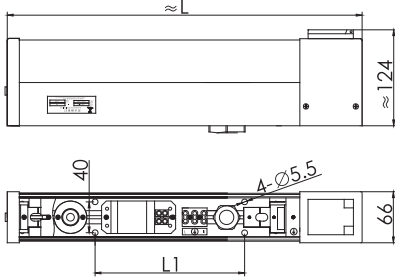
### ■ Products feature:

1. The shell of light is made of good quality aluminum material and the surface be coated by white acid epoxy polyester powder coating.
2. The shade adopt milk white PC by compression molding with the feature of non-discolor, good toughness, soft light and perfect light transmission.
3. Fixed the shade and base by ABS end plate and screw, delicate in appearance, convenient to take off for service.
4. ZYB17-D/F matched socket and fixed isolation resistance transformer to ensure that electrical safety.
5. The cable outside diameter is  $\varnothing 8 \sim \varnothing 10\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to STANDARD of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Passed the EUROPEAN UNION (CE) CERTIFICATION.

型号 Type	ZYB17-C	ZYB17-D	ZYB17-E	ZYB17-F
L(mm)	470		624	
L1(mm)	300		455	
重量 (Kg)Weight	1.5	1.7	2.3	
功率 Power	1X15W		1X20W	
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ			
灯座 Lamp holder	G13			
防护等级 Protection class	IP34			
备注 Remark	—	带插座 With socket	—	带插座 With socket



#### ■ The scope of application:

The products are designed for illumination at the passage and moist place such as laundry room, washing room, bathroom and rest room for etc.

#### ■ Products feature:

- 1.The shell of light is made of good quality aluminum material and the surface be coated by white acid epoxy polyester powder coating.
- 2.The shade adopt milk white PC by compression molding with the feature of non-discolor,good toughness,soft light and perfect light transmission.
3. Fixed the shade and base by ABS end plate and screw, delicate in appearance, convenient to take off for service.
- 4.The cable outside diameter is  $\varnothing 8 \sim \varnothing 10\text{mm}$ .

#### ■ Adopt standard and products certification

- 1.Conform to STANDARD of IEC60598-1-2008.
- 2.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

#### ■ 适用范围：

该灯具适宜各类船舶的走道、洗衣间、盥洗室、浴室及船员休息室等潮湿场所作照明之用。

#### ■ 产品特性：

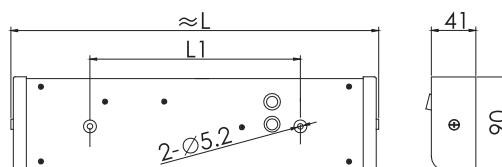
1. 灯壳采用优质铝型材，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯模压成型，不变色，韧性好，光线柔和及透光性好。
3. 灯罩与底壳通过 ABS 端板和螺钉固定，外观精美，拆卸方便，易于维护。
4. 电缆外径  $\varnothing 8 \sim \varnothing 10\text{mm}$ 。

#### ■ 采用标准：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

型号 Tape	ZYB18-08	ZYB18-10	ZYB18-15	ZYB18-20
L(mm)	427	457	537	682
L1(mm)	192		350	
重量 (Kg)Weight	2.0	2.4	3.2	5.0
功率 Power	1X8W	1X10W	1X15W	1X20W
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ			
灯座 Lamp holder	G5	G13		
防护等级 Protection class	IP34			

# ZYT08-1/ZYT12-1 | 床头灯 BEDSIDE LAMP



## ■ 适用范围：

该灯具适用于各类船舶舱室内居住场所作床头照明用。

## ■ 产品特性：

- 1、灯壳采用优质冷轧板冲压成型。
- 2、灯罩采用花纹乳白色聚碳酸脂注塑成型。
- 3、灯具带开关和插座装置。
- 4、电缆外径  $\varnothing 6 \sim \varnothing 8\text{mm}$ 。

## ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。
4. 通过欧盟 (CE) 认证。

## ■ The scope of application:

The products are designed as bedside lamp to use at the living room in ship cabin.

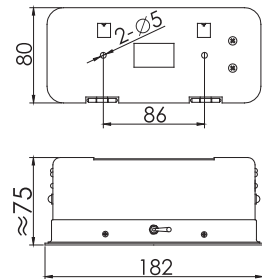
## ■ Products feature:

- 1.The shell of light is made of good quality cold rolled steel sheets by compression molding.
- 2.The shade of light adopt the figure oral poly carbonate injection molding.
- 3.This light can be equipped with switch and socket device.
- 4.The cable outside diameter is  $\varnothing 6\text{-}\varnothing 8\text{mm}$ .

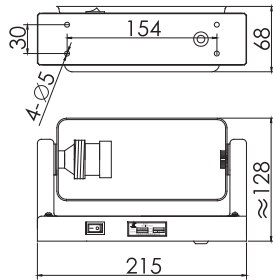
## ■ Adopt standard and products certification:

- 1.Conform to STANDARD of IEC60598-1-2008.
- 2.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
- 3.Approved by CHINA CLASSIFICATION SOCIETY(CCS).
- 4.Passed the EUROPEAN UNION (CE) CERTIFICATION.

型号 Type	ZYT08-1	ZYT12-1
L(mm)	≈ 347	≈ 488
L1(mm)	194	350
重量 (Kg)Weight	0.92	1.30
功率 Power	8W	12W
电压 / 频率 Voltage/frequency	110V/60HZ 220V/60HZ 220V/50HZ	
灯座 Lamp holder	G5	
防护等级 Protection class	IP34	



CKS2



CKS3

■ **The scope of application:**

This series products are designed as bedside lamp to use at the living room in ship cabin.

■ **Products feature:**

Spin-type lens hood, can adjust the ray intensity according to requirement.

■ **Adopt standard:**

1. Conform to STANDARD of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

■ **适用范围:**

该灯具适用于各类船舶舱室内居住场所作床头照明用。

■ **产品特性:**

旋转式遮光罩，根据需要可调节光照角度。

■ **采用标准:**

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

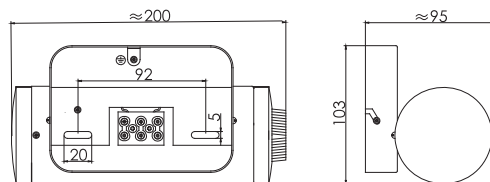
型号 Type	CKS2	CKS3
重量 (Kg) Weight	0.6	0.7
功率 ( W ) Power	15-25	15-40
电压 ( V ) Voltage	220/110/24	
灯座 Lamp holder	E27	
光源 Light source	白炽灯 Incandescent lamp/ 节能灯 Energy-saving lamp	
材质 Material	钢质 Steel	工程塑料 Engineering plastics



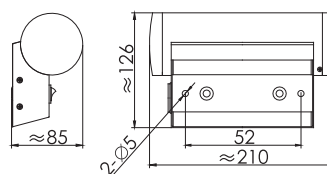
# CKS21/CKS22 | 床头灯 BEDSIDE LAMP



CKS21



CKS22



■ **适用范围：**

该灯具适用于各类船舶舱室内居住场所作床头照明用。

■ **产品特性：**

1. 灯壳采用优质铝材和冷轧板制成，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. CKS21配有新颖调光器，可作无级调光，调光范围30V ~ 218V。
3. 电缆外径  $\varnothing 7\text{mm}$ 。

■ **采用标准：**

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

■ **The scope of application:**

The products are designed as bedside lamp to use at the living room in ship cabin.

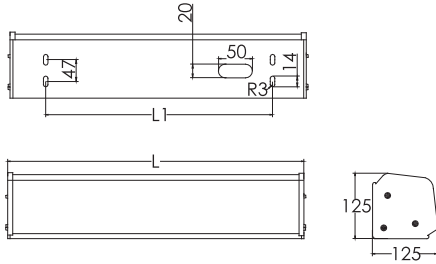
■ **Products feature:**

1. The shell of light is made of high quality aluminum and cold rolled steel sheets. Surface finished by white acid epoxy polyester powder coating process.
2. CKS21 Matched new style dimmer for stepless dimming, the range of adjusting is from 30V to 218V.
3. The cable outside diameter is  $\varnothing 7\text{mm}$ .

■ **Adopt standard:**

1. Conform to STANDARD of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

型号 Type	CKS21	CKS22	CKS22B
重量 (Kg)Weight	0.8	1.1	1.0
功率 Power	25W	7W	25W
电压 / 频率 Voltage/frequency	220V/50HZ		
灯座 Lamp holder	E27	G23	E27
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	白炽灯 Incandescent lamp
防护等级 Protection class	IP34		



#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels , such as living cabin of crew and passengers, rest room, dining room, cab, telegraph room and within the corridors and other places .

#### ■ Products feature:

- 1.The shell adopts good quality cold-rolled plate welded ,surface is powder coated after anti-acid white.
- 2.Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
- 3.Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights,on the lampshade with a red remark.
- 4.Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
- 5.The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

- 1.Conform to INTERNATION STANDARD of IEC60598-1-2008.
- 2.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
- 3.Passed the European Union (CE) certification.

#### ■ 适用范围 :

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明和应急照明。

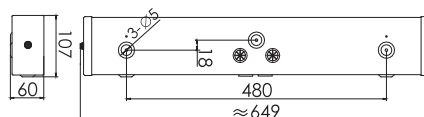
#### ■ 产品特性 :

1. 灯壳采用优质冷轧板压制成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯注塑成型，不变色，韧性好，光线柔和及透光性好。
3. 灯具可配置 B15d 灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
4. 灯具内部配置补偿电容，提高功率因数，减少损耗。
- 5 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

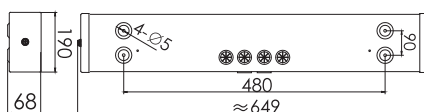
#### ■ 采用标准及产品认证 :

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过欧盟 (CE) 认证。

型号 TType	ZYB15-1/1E	ZYB20-1/1E	ZYB20-1G/1EZ	ZYB30-1/1E	ZYB30-1G/1EZ	ZYB40-1/1E	ZYB40-1G/1EZ
L(mm)	521	672		976		1281	
L1(mm)	334	500		789		1100	
重量 (Kg)Weight	2.7/2.8	3.2/3.3	4.0/4.1	3.8/3.9	4.6/4.7	4.9/5.0	5.7/5.8
功率 Power	1X15W	1X20W		1X30W		1X40W	
电压 / 频率 Voltage/frequency	110V/60HZ		220V/60HZ	220V/50HZ			
功率因数 Power factor				> 0.85			
灯座 Lamp holder				G13			
防护等级 Protection class				IP34			



ZYB22-1



ZYB22-2

#### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明和应急照明。

#### ■ 产品特点：

1. 灯壳采用优质冷轧板压制成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯注塑成型，不变色，韧性好，光线柔和及透光性好。
3. 灯具可配置 B15d 灯座，用于安装 24V/15W 应急灯泡，作为断电时临时照明。配置应急灯座的灯具其灯罩上带有小红点标志。
4. 灯具内部配置补偿电容，提高功率因数，减少损耗。
5. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过欧盟 (CE) 认证。

#### ■ The scope of application:

The lamp is suitable for illumination at dry compartments of all types of vessels, such as living cabin of crew and passengers, rest room, dinning room, cab, telegraph room and within the corridors and other places.

#### ■ Products feature:

1. The shell adopts good quality cold-rolled plate welded, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
3. Equipped with B15d emergency lamp holder, installation 24V / 15W emergency bulb, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
4. Configured compensating capacitors in inside of light to improve the power factor and reduce losses.
5. The cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to INTERNATION STANDARD of IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Passed the European Union (CE) certification.

型号 TType	ZYB22-1	ZYB22-1E	ZYB22-2	ZYB22-2E
重量 (Kg)Weight	2.5	2.6	4.3	4.4
功率 Power	1X20W		2X20W	
电压 / 频率 Voltage/frequency	110V/60HZ		220V/60HZ	220V/50HZ
功率因数 Power factor	> 0.85			
灯座 Lamp holder	G13			
防护等级 Protection class	IP34			



# 白炽灯

Incandescent lamp

# CCD1-2/CCD15-2

## 白炽舱顶灯 INCANDESCENT PENDANT LIGHT



CCD1-2

### ■ 适用范围：

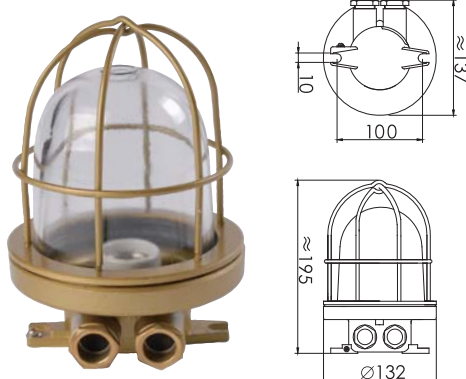
该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

### ■ 产品特性：

1. 灯具结构简单，防水性能良好。
2. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 符合 GB/T3027《船用白炽照明灯通用技术条件》。
4. CCD1-2 通过中国船级社 (CCS) 型式认可。



CCD15-2

### ■ The scope of application:

Applied to the illumination for deck, side walk and wet places or cabin of ships.

### ■ Products feature:

1. The structure of light is simple, has good waterproof function.
2. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

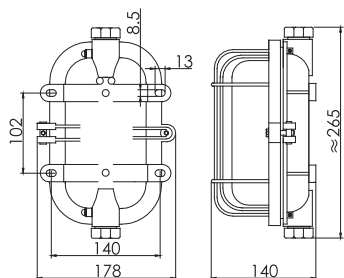
### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL STANDARD IEC60598-1-2008.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027 Marine incandescent lamps General technical requirements.
4. CCD1-2 has been type approval of China Classification Society (CCS).

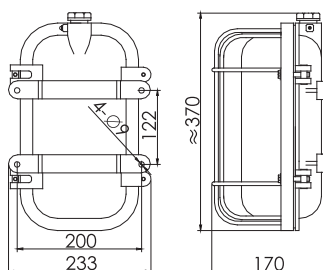
型号 Type	CCD1-2		CCD15-2	
颜色 Color	透明、磨砂、乳白、红、绿、蓝、黄 Transparent, Frosted, Opal, Red, Green, Blue Yellow		透明、红、绿 Transparent Red、Green	
电压 Voltage (V)	220			
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp
功率 Power(W)	60	8	60	8
灯座 Lamp holder	E27			
材质 Material	工程塑料 Engineering Plastic		铜 Brass	
防护等 Protection class	IP55		IP56	
重量 (Weight)(Kg)	1.0		1.9	

# CCD2-1-2/CCD2-2

## 白炽舱顶灯 INCANDESCENT PENDANT LIGHT



CCD2-1-2



CCD2-2

■ **The scope of application:**

Applied to the illumination for deck, side walk and wet places or cabin of ships.

■ **Products feature:**

The structure of light is simple, has good waterproof function. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ **Adopt standard and products certification:**

Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements. Approved by type approval of China Classification Society (CCS)

■ **适用范围:**

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

■ **产品特性:**

灯具结构简单，防水性能良好。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ **采用标准及产品认证:**

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》；通过中国船级社 (CCS) 型式认可。

型号 Type	CCD2-1-2		CCD2-2	
颜色 Color	透明、磨砂、乳白 Transparent, Frosted, Opal			
电压 Voltage (V)	220			
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp
功率 Power(W)	60	8	100	15
灯座 Lamp holder	E27			
材质 Material	铜 Brass	铝 Aluminum	铜 Brass	铝 Aluminum
防护等级 Protection class	IP55			
重量 Weight(Kg)	6.5	2.1	13.3	5.5

# CCD3-2/CCD3-3

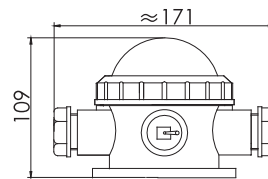
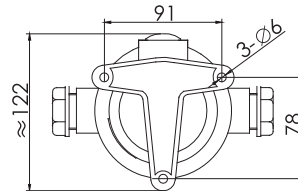
## 白炽舱顶灯 INCANDESCENT PENDANT LIGHT



CCD3-2



CCD3-3



### ■ 适用范围：

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

### ■ 产品特性：

1. 灯具结构简单，防水性能良好。
2. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。
3. CCD3-3 带开关。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 符合 GB/T3027《船用白炽照明灯通用技术条件》。
4. 通过中国船级社 (CCS) 型式认可。

### ■ The scope of application:

Applied to the illumination for deck, side walk and wet places or cabin of ships.

### ■ Products feature:

1. The structure of light is simple, has good waterproof function.
2. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .
3. CCD3-3 with switch.

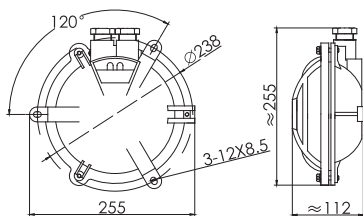
### ■ Adopt standard and products certification:

1. Conform to INTERNATIONAL STANDARD IEC60598-1-2008 .
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027 Marine incandescent lamps General technical requirements.
4. Approved by type approval of China Classification Society (CCS) .

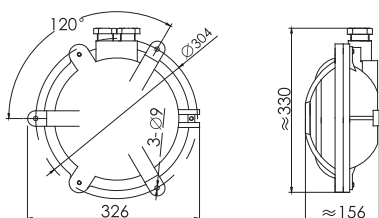
型号 Type	CCD3-2	CCD3-3
颜色 Color	透明、磨砂、乳白、红、绿、蓝、黄 Transparent, Frosted, Opal, Red Green, Blue, Yellow	
电压 Voltage (V)	24	
功率 Power(W)	25	
灯座 Lamp holder	B15d	
光源 Light source	白炽灯 Incandescent lamp	
材质 Material	工程塑料 EngineeringPlastic/ 铜 Brass/ 不锈钢 Stainless steel	
防护等级 Protection class	IP55	
重量 Weight(Kg)	0.52	
备注 Remark	—	带开关 with switch

# CCD4-1/CCD4-2

## 白炽舱顶灯 INCANDESCENT PENDANT LIGHT



CCD4-1



CCD4-2

■ **The scope of application:**

Applied to the illumination for deck, side walk and wet places or cabin of ships.

■ **Products feature:**

The structure of light is simple, has good waterproof function. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ **Adopt standard and products certification:**

Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements. CCD4-1 approved by type approval of China Classification Society (CCS).

■ **适用范围:**

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

■ **产品特性:**

灯具结构简单，防水性能良好。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ **采用标准及产品认证:**

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》；CCD4-1 通过中国船级社 (CCS) 型式认可。

型号 Type	CCD4-1			CCD4-2		
颜色 Color	透明、磨砂、乳白 Transparent、Frosted、Opal					
电压 Voltage (V)	220					
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp		白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	
功率 Power(W)	60	8		100	15	
灯座 Lamp holder	E27					
材质 Material	铜 Brass	铝 Aluminum	不锈钢 Stainless steel	铜 Brass	铝 Aluminum	不锈钢 Stainless steel
防护等级 Protection class	IP55					
重量 Weight(Kg)	4.1	1.7	3.6	4.7	1.9	4.2

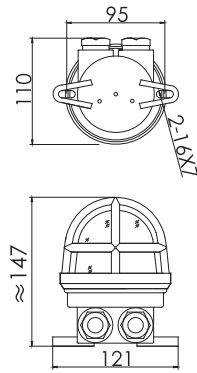


# CCD5-2/CCD6-2

## 白炽舱顶灯 INCANDESCENT PENDANT LIGHT



CCD5-2



■ **适用范围：**

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

■ **产品特性：**

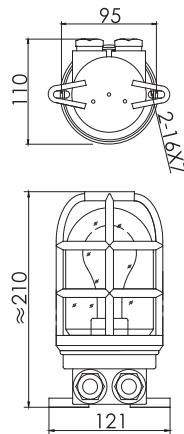
灯具结构简单，防水性能良好。电缆外径 $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ **采用标准及产品认证：**

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》通过中国船级社 (CCS) 型式认可。



CCD6-2



■ **The scope of application:**

Applied to the illumination for deck, side walk and wet places or cabin of ships.

■ **Products feature:**

The structure of light is simple, has good waterproof function. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ **Adopt standard and products certification:**

Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements. Approved by type approval of China Classification Society (CCS).

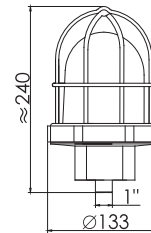
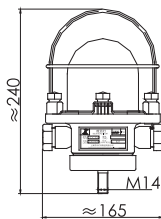
型号 Type	CCD5-2	CCD6-2	
颜色 Color	透明、磨砂、乳白、红、绿	Transparent、Frosted、Opal、Red Green	
电压 Voltage (V)	24	220	
光源 Light source	白炽灯 Incandescent lamp	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp
功率 Power(W)	25	60	8
灯座 Lamp holder	B15d	E27	
材质 Material	工程塑料 Engineering Plastic		
防护等级 Protection class	IP56		
重量 Weight(Kg)	0.6	1.1	



CCD 7



CCD9-4



■ The scope of application:

Applied to the illumination for deck,side walk and wet places or cabin of ships.

■ Products feature:

The structure of light is simple,has good waterproof function.. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard and products certification:

Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.Conform to GB/T3027 Marine incandescent lamps General technical requirements.Approved by type approval of China Classification Society(CCS) .

■ 适用范围：

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

■ 产品特性：

灯具结构简单，防水性能良好。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准及产品认证：

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》；通过中国船级社 (CCS) 型式认可。

型号 Type	CCD7		CCD9-4	
颜色 Color	透明、磨砂、乳白、红、绿 Transparent、Frosted、Opal、Red Green		透明、磨砂、乳白、红、绿、蓝、黄 Transparent、Frosted、Opal、Red Green、Blue、Yellow	
电压 Voltage ( V )	220			
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp
功率 Power(W)	60	8	60	8
灯座 Lamp holder	E27			
材质 Material	钢 Steel			
防护等级 Protection class	IP55			
重量 Weight(Kg)	2.0		1.5	

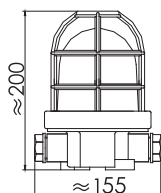
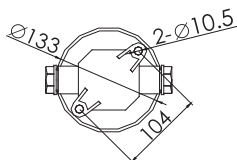
# CCD9-2-2/CCD9-3-2

## 白炽舱顶灯

## INCANDESCENT PENDANT LIGHT



CCD9-2-2



■ **适用范围：**

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

■ **产品特性：**

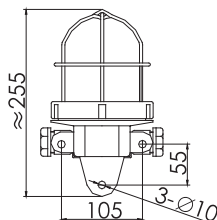
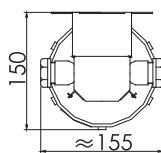
灯具结构简单，防水性能良好。电缆外径 $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ **采用标准及产品认证：**

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》通过中国船级社 (CCS) 型式认可。



CCD9-3-2



■ **The scope of application:**

Applied to the illumination for deck, side walk and wet places or cabin of ships.

■ **Products feature:**

The structure of light is simple, has good waterproof function. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ **Adopt standard and products certification:**

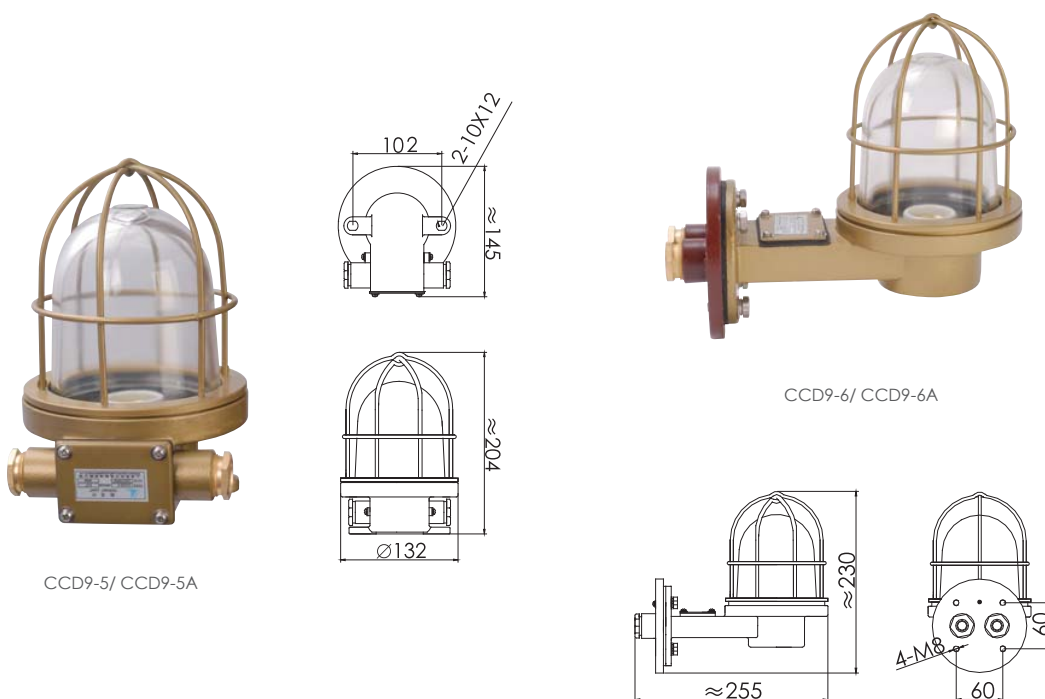
Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements. Approved by type approval of China Classification Society (CCS).

型号 Type	CCD9-2-2		CCD9-3-2	
颜色 Color	透明、磨砂、乳白、红、绿、黄 Transparent、Frosted、Opal、Red、Green、Yellow			
电压 Voltage (V)	220			
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp
功率 Power(W)	60	8	60	8
灯座 Lamp holder	E27			
材质 Material	工程塑料 Engineering Plastic		钢 Steel	
防护等级 Protection class	IP55			
重量 Weight(Kg)	1.0		1.8	

# CCD9-5/6/CCD9-5A/6A

白炽舱顶灯

INCANDESCENT PENDANT LIGHT



**■ The scope of application:**

Applied to the illumination for deck, side walk and wet places or cabin of ships.

**■ Products feature:**

The structure of light is simple, has good waterproof function. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

**■ Adopt standard and products certification:**

Conform to INTERNATIONAL STANDARD IEC60598-1-2008 .Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements. Approved by type approval of China Classification Society(CCS) .

**■ 适用范围:**

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

**■ 产品特性:**

灯具结构简单，防水性能良好。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

**■ 采用标准及产品认证:**

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》。通过中国船级社 (CCS) 型式认可。

型号 Type	CCD9-5	CCD9-6	CCD9-5A	CCD9-6A
颜色 Color	透明、磨砂、乳白、红、绿、蓝、黄 Transparent、Frosted、Opal、Redl、Green、Blue、Yellow			
电压 Voltage ( V )	220		24	
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	白炽灯 Incandescent lamp	
功率 Power(W)	60	8	25	
灯座 Lamp holder	E27		B15d	
材质 Material	铜 Brass			
防护等级 Protection class	IP56			
重量 Weight(Kg)	1.9	3.5	1.8	3.5

# CCD11A/CCD11B

## 白炽舱顶灯

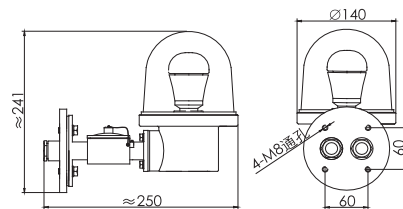
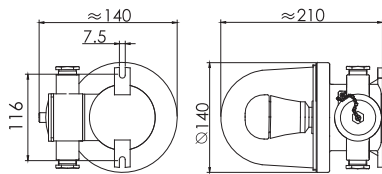
## INCANDESCENT PENDANT LIGHT



CCD11A



CCD11B



■ **适用范围：**

该灯具适用于各类船舶中的甲板、走道等潮湿场所或舱室中使用。

■ **产品特性：**

灯具带防震装置，结构简单，防水性能良好。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ **采用标准：**

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》。

■ **The scope of application:**

Applied to the illumination for deck, side walk and wet places or cabin of ships.

■ **Products feature:**

Lamp with shock proof device, the structure of light is simple, has good waterproof function. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ **Adopt standard :**

Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements.

型号 Type	CCD11A		CCD11B	
颜色 Color	透明、红、绿 Transparent、Red、Green			
电压 Voltage (V)	220			
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp
功率 Power(W)	60	8	60	8
灯座 Lamp holder	E27			
材质 Material	铜 Brass			
防护等级 Protection class	IP55			
重量 Weight(Kg)	2.6		4.7	

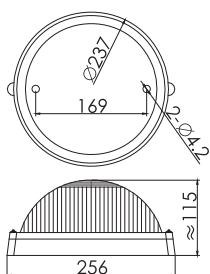
# CCD10-1/CCD12-1/CCD12-2

白炽舱顶灯

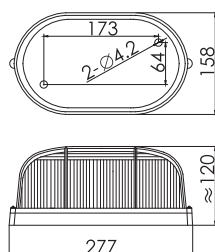
INCANDESCENT PENDANT LIGHT



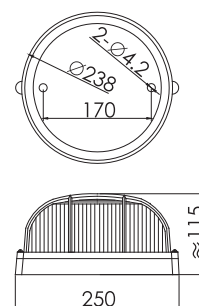
CCD10-1



CCD12-1



CCD12-2



■ **The scope of application:**

Applied to the illumination for all types of vessels in the cabins, office of cabins or entertainment.

■ **Products feature:**

The shell adopts high quality aluminum pressing. Lamp light, delicate appearance..Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ **Adopt standard:**

Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements.

■ **适用范围:**

该灯具适用于各类船舶中的居住舱室、办公舱室或娱乐场所中使用。

■ **产品特性:**

壳体采用优质铝材压制成型。灯具轻巧，外观精致。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ **采用标准:**

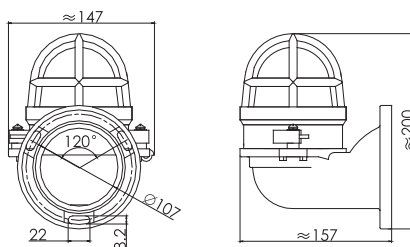
符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》。符合 GB/T3027《船用白炽照明灯通用技术条件》。

型号 Type	CCD10-1	CCD12-1	CCD12-2
颜色 Color	透明、磨砂、乳白 Transparent、Frosted、Opal	透明、乳白 Transparent、Opal	
电压 Voltage ( V )	110/220		
功率 Power(W)	60		
灯座 Lamp holder	E27		
光源 Light source	白炽灯 Incandescent lamp		
防护等级 Protection class	IP34		
重量 Weight(Kg)	1.3	1.25	1.4

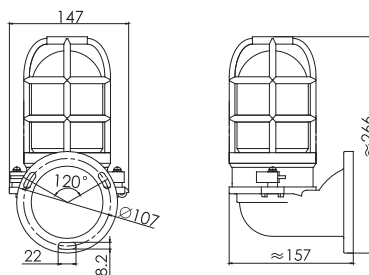
# WB-1/WB-2 | 壁灯 WALL LIGHT



WB-1



WB-2



### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水、凝水和露天场所，如机炉舱、干货舱、管弄、露天甲板等处照明用。

### ■ 产品特性:

灯体用合成树脂注塑成型，造型美观，壁式安装。

### ■ 采用标准:

1. 符合 GB7000.201 标准。
2. 符合 GB7000.1 标准。
3. 符合《钢质海船入级规范》。
4. 采用日本 JISF8414-2003 标准组织生产。

### ■ he scope of application:

This series of lights fit for illumination for the ships with water dripping, water spattering, water coagulating and weather place, such as oven cabin, dry cabin, pipe tunnel and weather deck etc.

### ■ Products feature:

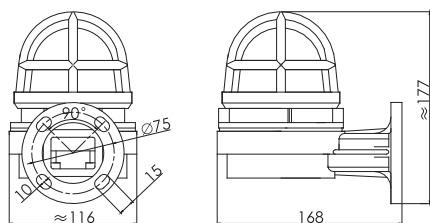
The light body adopts synthetic resin by injection molding, nice shape, Wall-type mounting.

### ■ Adopt standard:

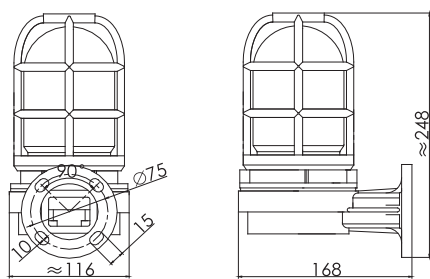
1. Conform to GB7000.201 standard.
2. Conform to GB7000.1 standard.
3. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
4. Adopt the Japanese JISF8414-2003 standard organization of production.

型号 Type	WB-1	WB-2
国际代码 Code	792067	792068
电压 Voltage ( V )	24	220
灯座 Lamp holder	FE12 FE14 FB15	FE26 FB22
光源 / 功率 Light source/Power	白炽灯 Incandescent lamp/15W	白炽灯 Incandescent lamp/60W 节能灯 Energy-saving lamp/8W
颜色 Color	明 Transparent, 红 Red, 绿 Green, 蓝 Blue, 黄 Yellow	
防护等级 Protection class	IP56	
重量 Weight(Kg)	0.9	1.1

# WB-1B/WB-2B | 壁灯 WALL LIGHT



WB-1B



WB-2B

**■ he scope of application:**

This series of lights fit for illumination for the ships with water dripping,water spattering,water coagulating and weather place,such as oven cabin,dry cabin,pipe tunnel and weather deck etc.

**■ Products feature:**

The light body adopts synthetic resin by injection molding,nice shape,Wall-type mounting.

**■ Adopt standard:**

- 1.Conform to GB7000.201 standard.
- 2.Conform to GB7000.1 standard.
3. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
- 4.Adopt the Japanese JISF8414-2003 standard organization of production .

**■ 适用范围 :**

该灯具适用于各类船舶有滴水、溅水、凝水和露天场所,如机炉舱、干货舱、管弄、露天甲板等处照明用。

**■ 产品特性:**

灯体用合成树脂注塑成型,造型美观,壁式安装。

**■ 采用标准 :**

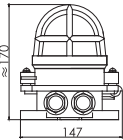
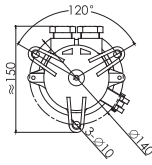
1. 符合 GB7000.201 标准。
2. 符合 GB7000.1 标准。
3. 符合《钢质海船入级规范》。
4. 采用日本 JISF8414-2003 标准组织生产。

型号 Type	WB-1B	WB-2B
电压 Voltage ( V )	24	220
灯座 Lamp holder	FE12 FE14 FB15	FE26
光源 / 功率 Light source/Power	白炽灯 Incandescent lamp/15W	白炽灯 Incandescent lamp/60W/ 节能灯 Energy-saving lamp/8W
颜色 Color	明 Transparent, 红 Red, 绿 Green, 蓝 Blue, 黄 Yellow	
防护等级 Protection class	IP56	
重量 Weight(Kg)	0.8	1.0

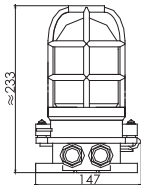
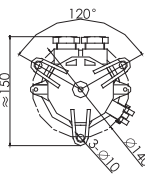




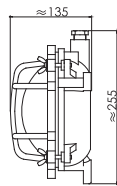
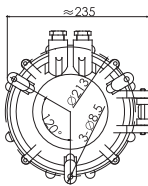
DS7-1M



DS7-2M



W



■ **用范围：**

该灯具适用于各类船舶有滴水、溅水、凝水和露天场所，如机炉舱、干货舱、管弄、露天甲板等处照明用。

■ **采用标准：**

符合 GB7000.201 标准；符合 GB7000.1 标准；符合《钢质海船入级规范》；采用日本 JISF8414-2003 标准组织生产。

■ **The scope of application:**

This series of lights fit for illumination for the ships with water dripping,water spattering,water coagulating and weather place,such as oven cabin,dry cabin,pipe tunnel and weather deck etc.

■ **Adopt standard:**

Conform to GB7000.201 standard.Conform to GB7000.1 standard.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.Adopt the Japanese JISF8414-2003 standard organization of production .

■ **DS7-1M、DS7-2M 产品特性：**

灯体用合成树脂注塑成型，造型美观。电缆外径： $\varnothing 8 \sim \varnothing 10\text{mm}$ ，吸顶式安装。

■ **Products feature:**

The light body adopts synthetic resin by injection molding,nice shape,cable outside diameter is  $\varnothing 8 \sim \varnothing 10\text{mm}$ ,ceiling mounting.

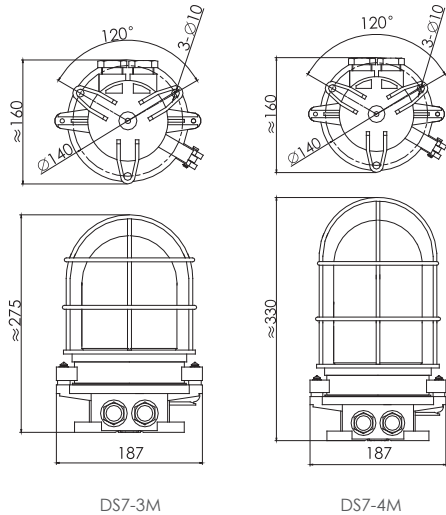
■ **W: 产品特性：**

灯体用合成树脂注塑成型，造型美观。灯罩为防松脱装置，电缆外径  $\varnothing 12 \sim \varnothing 15\text{mm}$ ，吸顶式安装。

■ **Products feature:**

The light body adopts synthetic resin by Injection molding,nice shape.The glass Adopt anti-loose device,cable outside diameter is  $\varnothing 12 \sim \varnothing 15\text{mm}$ ,ceiling mounting.

型号 Type	DS7-1M		DS7-2M		W
国际代码 international Code	792053	792054	792057	792058	792066
电压 Voltage ( V )	24		220		
灯座 Lamp holder	FE12 FE14	FB15	FE26	FB22	FE26
光源 / 功率 Light source/Power	白炽灯 Incandescent lamp/15W		白炽灯 Incandescent lamp/60W / 节能灯 Energy-saving lamp/8W		
颜色 Color	明 Transparent, 红 Red, 绿 Green, 蓝 Blue, 黄 Yellow				明 Transparent
防护等级 Protection class	IP56				
重量 Weight(Kg)	0.8		1.0		1.9



DS7-3M

DS7-4M



■ **The scope of application:**

This series of lights fit for illumination for the ships with water dripping, water spattering, water coagulating and weather place, such as oven cabin, dry cabin, pipe tunnel and weather deck etc.

■ **Products feature:**

The light body adopts synthetic resin by injection molding, nice shape. Cable outside diameter is  $\varnothing 8 \sim \varnothing 10$ mm, ceiling mounting.

■ **Adopt standard:**

Conform to GB7000.201 standard. Conform to GB7000.1 standard. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Adopt the Japanese JISF8414-2003 standard organization of production.

■ **适用范围:**

该灯具适用于各类船舶有滴水、溅水、凝水和露天场所, 如机炉舱、干货舱、管弄、露天甲板等处照明用。

■ **产品特性:**

灯体用合成树脂注塑成型, 造型美观。电缆外径:  $\varnothing 8 \sim \varnothing 10$ mm, 吸顶式安装。

■ **采用标准:**

符合 GB7000.201 标准; 符合 GB7000.1 标准; 符合《钢质海船入级规范》; 采用日本 JISF8414-2003 标准组织生产。

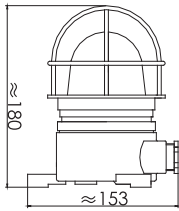
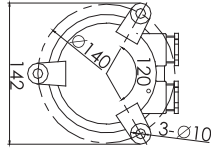
型号 Type	DS7-3M		DS7-4M
国际代码 International Code	792059	792060	792062
电压 Voltage ( V )	220		
灯座 Lamp holder	FE26		
光源 / 功率 Light source/Power	白炽灯 Incandescent lamp/100W		白炽灯 Incandescent lamp/200W
	节能灯 Energy-saving lamp/12W		节能灯 Energy-saving lamp/18W
颜色 Color	明 Transparent, 红 Red, 绿 Green, 蓝 Blue, 黄 Yellow		
防护等级 Protection class	IP56		
重量 Weight(Kg)	2.5		2.8

# DS7-1M-A/DS7-2M-A

## 作业灯 WORK LIGHT



DS7-1M-A



■ 适用范围：

该灯具适用于各类船舶有滴水、溅水、凝水和露天场所，如机炉舱、干货舱、管弄、露天甲板等处照明用。

■ 产品特性：

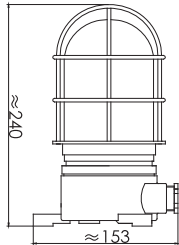
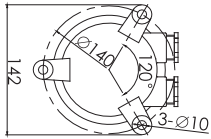
灯体用灰铸铁铸造成型，电缆外径： $\varnothing 8 \sim \varnothing 10\text{mm}$ ，吸顶式安装。

■ 采用标准：

符合 GB7000.201 标准；符合 GB7000.1 标准；符合《钢质海船入级规范》。



DS7-2M-A



■ The scope of application:

This series of lights fit for illumination for the ships with water dripping, water spattering, water coagulating and weather place, such as oven cabin, dry cabin, pipe tunnel and weather deck etc

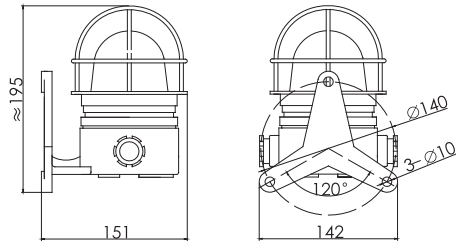
■ Products feature:

The light body adopts gray iron casting, Cable outside diameter is  $\varnothing 8 \sim \varnothing 10\text{mm}$ , ceiling mounting.

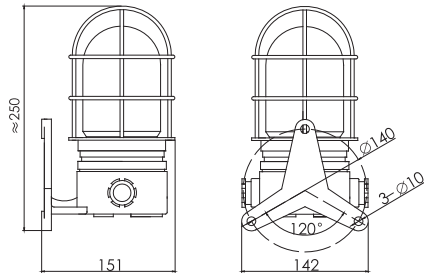
■ Adopt standard:

Conform to GB7000.201 standard. Conform to GB7000.1 standard. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

型号 Type	DS7-1M-A	DS7-2M-A
国际代码 International Code	—	792055
电压 Voltage ( V )	24	220
灯座 Lamp holder	FE12 FE14	FE26
光源 / 功率 Light source/Power	白炽灯 Incandescent lamp/15W	白炽灯 Incandescent lamp/60W 节能灯 Energy-saving lamp/8W
颜色 Color	明 Transparent, 红 Red, 绿 Green, 蓝 Blue, 黄 Yellow	
防护等级 Protection class	IP56	
重量 Weight(Kg)	2.2	2.4



WB-1A



WB-2A

#### ■ The scope of application:

This series of lights fit for illumination for the ships with water dripping, water spattering, water coagulating and weather place, such as oven cabin, dry cabin, pipe tunnel and weather deck etc.

#### ■ Products feature:

The light body adopts gray iron casting, cable outside diameter is  $\varnothing 8 \sim \varnothing 10$ mm, Wall-type mounting.

#### ■ Adopt standard:

1. Conform to GB7000.201 standard.
2. Conform to GB7000.1 standard.
3. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

#### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水、凝水和露天场所, 如机炉舱、干货舱、管弄、露天甲板等处照明用。

#### ■ 产品特性:

灯体用灰铸铁铸造成型, 电缆外径:  $\varnothing 8 \sim \varnothing 10$ mm, 壁式安装。

#### ■ 采用标准:

1. 符合 GB7000.201 标准。
2. 符合 GB7000.1 标准。
3. 符合《钢质海船入级规范》

型号 Type	WB-1A	WB-2A
电压 Voltage ( V )	24	220
灯座 Lamp holder	FE12 FE14 FB15	FE26
光源 / 功率 Light source/Power	白炽灯 Incandescent lamp/15W	白炽灯 Incandescent lamp/60W/ 节能灯 Energy-saving lamp/8W
颜色 Color	明 Transparent, 红 Red, 绿 Green, 蓝 Blue, 黄 Yellow	
防护等级 Protection class	IP56	
重量 Weight(Kg)	2.8	3.0



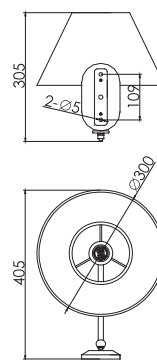
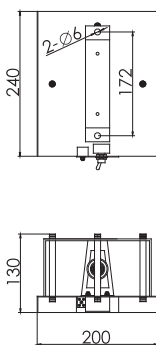
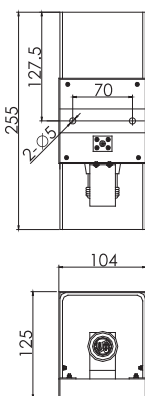
CBD1



CBD2



CBD3



■ 适用范围：

该灯具供各类船舶作辅助照明用。

■ 产品特性：

外观新颖，造型美观，光线柔和，壁式安装。

■ 采用标准：

1. 符合 GB7000.201 标准。
2. 符合 GB7000.1 标准。
3. 符合《钢质海船入级规范》。

■ The scope of application:

The lighting fit for auxiliary lighting for all types of ship .

■ Products feature:

Novel appearance,nice shape,softness ray;Wall-type mounting.

■ Adopt standard:

- 1.Conform to GB7000.201 standard.
- 2.Conform to GB7000.1 standard.
3. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

型号 Type	CBD1	CBD2	CBD3
电压 Voltage ( V )	24/220	220	24/220
灯座 Lamp holder	E27		
光源 / 功率 (W) Light source/Power	白炽灯 Incandescent lamp/25-40W	白炽灯 Incandescent lamp/40W	白炽灯 Incandescent lamp/25-40W
	节能灯 Energy-saving lamp/8W		
材质 Material	钢质 Steel/ 不锈钢 Stainless steel	铜质 Brass/ 不锈钢 Stainless steel	钢质 Steel
重量 Weight(Kg)	1.0	1.1	0.9

■ The scope of application:

This series lights fit for illumination in temporary work places used for checking and repairing ship or loading or unloading goods.

■ Adopt standard:

Conform to GB7000.208 standard; Conform to GB7000.1 standard; Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

■ Products feature:

The handle adopt phenolic plastic ,lampshade adopt Semi matte translucent glass. With metal protective guard ,cable outside diameter is  $\varnothing 8 \sim \varnothing 10\text{mm}$ .

型号 Type	CSD3
电压 Voltage ( V )	24
功率 Power(W)	40
灯座 Lamp holder	E27
光源 Light source	白炽灯 Incandescent lamp
防护等级 Protection class	IP55
重量 Weight(Kg)	0.9

■ Products feature:

Products feature: the handle adopts rubber material, with metal protective guard, cable outside diameter  $\varnothing 8\text{mm}$ .

型号 Type	CSD4	
电压 Voltage ( V )	220/24	
功率 Power(W)	25/40	8
光源 Light source	白炽灯 Incandescent lamp	节能灯 Energy-saving lamp
灯座 Lamp holder	E27/B22d	
颜色 Color	明 Transparent	
防护等级 Protection class	IP34	
重量 Weight(Kg)	0.7	

■ Products feature:

This light is movable spot light, lamp body adopts sealing structure, with strong waterproof ability, with delicate appearance, easy to use, cable outside diameter  $\varnothing 11\text{mm}$ .

型号 Type	CSD5
电压 Voltage	220V/50Hz 220V/60Hz 110V/60Hz
功率 Power(W)	300
光源 Light source	卤钨灯 Tungsten halogen lamp
灯座 Lamp holder	R7s
防护等级 Protection class	IP56
重量 Weight(Kg)	2.4

■ 适用范围:

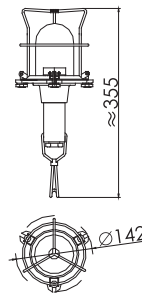
该类灯具适用于船舶检修或装卸货物等临时性的工作场所照明。

■ 采用标准:

符合 GB7000.208 标准; 符合 GB7000.1 标准; 符合《钢质海船入级规范》。

■ 产品特性:

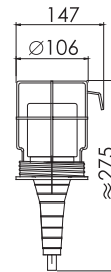
手柄采用酚醛塑料, 灯罩为半磨砂半透明玻璃。带金属保护网, 电缆外径  $\varnothing 8 \sim \varnothing 10\text{mm}$ 。



CSD3

■ 产品特性:

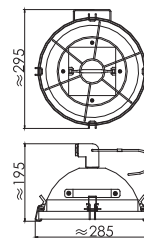
手柄采用橡胶材料, 带金属保护网, 电缆外径  $\varnothing 8\text{mm}$ 。



CSD4

■ 产品特性:

该灯具为可移动投光灯, 灯体采用密封结构, 具有较强的防水能力, 外形美观, 使用方便。电缆外径  $\varnothing 11\text{mm}$ 。



CSD5



CSD6

CSD7

■ 适用范围：

该类灯具适用于船舶检修或装卸货物等临时性的工作场所照明。

■ 产品特性：

灯体用合成树脂注塑成型，造型美观，重量轻，移动方便。电缆外径： $\varnothing 8 \sim \varnothing 10\text{mm}$ 。

■ 采用标准：

1. 符合 GB7000.208 标准。
2. 符合 GB7000.1 标准。
3. 符合《钢质海船入级规范》。

■ The scope of application:

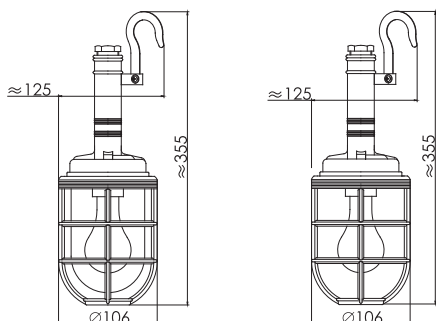
This series of lights fit for illumination in temporary work places used for checking and repairing ship or loading or unloading goods.

■ Products feature:

The light body adopts synthetic resin by injection molding, beautiful shape, light weight, easy to move. Cable outside diameter is  $\varnothing 8 \sim \varnothing 10\text{mm}$ .

■ Adopt standard:

1. Conform to GB7000.208 standard.
2. Conform to GB7000.1 standard.
3. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.



型号 type	CSD6		CSD7	
国际代码 International Code	792151	792152	-	
电压 Voltage ( V )	220/24V			
灯座 Lamp holder	E27	B22	E27	B22
光源 Light source	白炽灯 Incandescent lamp			
功率 Power(W)	60W			
防护等级 Protection class	IP56		IP20	
重量 Weight(Kg)	0.7		0.5	
备注 Remark	-		无灯罩 Without globe	

# CGD1/CGD3-2/CGD3-3

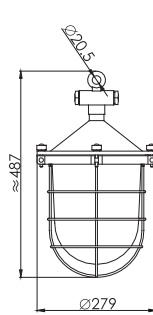
## 挂灯 PENDANT LIGHT



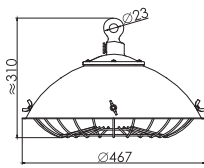
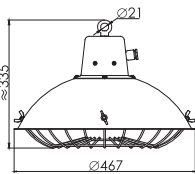
CGD3-3



CGD3-2



CGD1



CGD1 High-power pendant light

■ **The scope of application:**

Used for public illumination in the deck ,dock and oven cabin room in ships.

■ **Products feature:**

Equipped with water blowout prevention structure,cast aluminum shell, milky white glass , metal protective guard,fit for large area illumination .Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

CGD3-2 Five-bulb cargo light

■ **The scope of application:**

Used for movable illumination in cargo tank of ship.

■ **Products feature:**

The shell adopts good quality steel by mold pressing,with metal protective guard ,fit for large area illumination.Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$

CGD3-3 Single-bulb cargo light

■ **The scope of application:**

Used for movable illumination in cargo tank of ship.

■ **Products feature:**

The shell adopts good quality steel by mold pressing,with metal protective guard ,fit for large area illumination.It can be equipped with incandescent lamp and fluorescent self-ballast mercury lamp.Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$

■ **采用标准 :**

符合 GB7000.204 标准;符合 GB7000.1 标准;符合《钢质海船入级规范》。

■ **Adopt standard:**

Conform to GB7000.204 standard;Conform to GB7000.1 standard;Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

CGD1 大功率挂灯

■ **适用范围 :**

供各类船舶甲板、码头及机炉舱作公用照明。

■ **产品特性 :**

防喷水式结构,灯体为铸铝,乳白色玻璃罩,并有金属保护网,适合大面积照明。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

CGD3-2 五泡货舱灯

■ **适用范围 :**

供各类船舶货舱内作移动照明用。

■ **产品特性 :**

壳体采用优质冷轧板模压成型,装有金属保护网。适合大面积照明。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

CGD3-3 单泡货舱灯

■ **适用范围 :**

供各类船舶货舱内作移动照明用。

■ **产品特性 :**

壳体采用优质冷轧板模压成型,装有金属保护网。适合大面积照明。可配用白炽灯泡和荧光自镇流汞灯。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

型号 Type	电压 Voltage ( V )	灯座 Lamp holder	光源 Light source	功率 Power(W)	防护等级 Protection class	重量 Weight(Kg)
CGD1	110/220	E27	白炽灯 Incandescent lamp	200	IP56	3.7
CGD3-2			60X5	IP20	0.7	
CGD3-3		E40	荧光自镇流汞灯 self-ballast mercury lamp			300/500



# CPD1-1/CPD1-2/CPD3 | 蓬顶灯 CEILING LIGHT



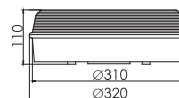
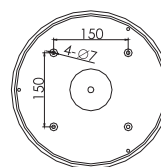
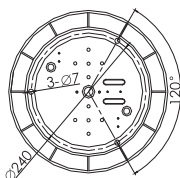
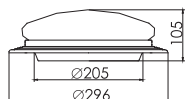
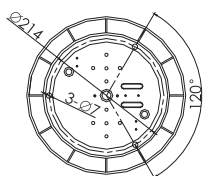
CPD1-1



CPD1-2



CPD3



## ■ 适用范围：

该灯具适用于各类船舶中的居住舱室、办公舱室或娱乐场所中使用。

## ■ 产品特性：

壳体采用模具压制成型。乳白色灯罩，嵌入式安装，外观精致。灯具可配置 B15d 灯座，用于 24V/15W 应急照明灯泡的安装，需应急装置在订货时请注明。电缆外径  $\varnothing 6\text{mm}$ 。

## ■ 采用标准：

符合国际 IEC60598-1-2008 标准；符合《钢质海船入级规范》；符合 GB/T3027《船用白炽照明灯通用技术条件》。

## ■ The scope of application:

Applied to the illumination for all types of vessels in the cabins, office cabins or entertainment place.

## ■ Products feature:

The shell adopts mold pressing. Milk white lampshade, recessed type mounting, delicate appearance. The light equipped with B15d lamp holder to install 24V/15W emergency bulb, need emergency device, Please note when ordering. Cable outside diameter  $\varnothing 6\text{mm}$ .

## ■ Adopt standard:

Conform to INTERNATIONAL STANDARD IEC60598-1-2008. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027 Marine incandescent lamps General technical requirements.

名称 Name	单泡蓬顶灯 Single-bulb ceiling light	双泡蓬顶灯 Double-bulb ceiling light	圆形蓬顶灯 Round ceiling light
型号 Type	CPD1-1	CPD1-2	CPD3
电压 Voltage (V)	110/220		220
功率 Power(W)	60	2X60	22
灯座 Lamp holder	E27		G100
光源 Light source	白炽灯 Incandescent lamp		节能灯 Energy-saving lamp
材质 Material	钢质 Steel		工程塑料 Engineering Plastic
防护等级 Protection class	IP20		IP34
重量 Weight(Kg)	1.6	1.8	1.3

# CTD1/CTD2/CTD3 | 台灯

## READING LIGHT

### ■ The scope of application:

This series of light fit for the illumination of work table in cabin.

### ■ Adopt standard:

Conform to GB/T3852.8 standard;Conform to GB7000.1 standard;Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

### ■ 产品特性:

附有橡胶自动吸盘，能自动固定在台面上。造型美观，光线柔和。

### ■ Products feature:

With the rubber automatic suction cup,can fix it on the work table automatically. Nice shape,softness rays.

### ■ 产品特性:

具有高频、不闪、不眩眼的护眼功能，接近自然光，十分适合阅读。造型美观，光线柔和。

### ■ Products feature:

CTD2:With high frequency,non-flash,no dazzle eye of the eye-protection function,approach natural light which is very suitable for reading.Nice shape,softness rays.

### ■ 产品特性:

附有橡胶自动吸盘，能自动固定在台面上。造型美观，光线柔和。

### ■ Products feature:

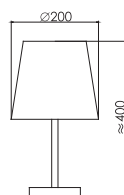
CTD3:With the rubber automatic suction cup,can fix it on the work table automatically. Nice shape,softness rays.

### ■ 适用范围:

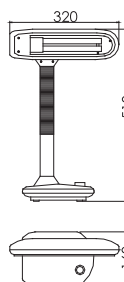
该类灯具适用于各类船舶舱室中工作台照明。

### ■ 采用标准:

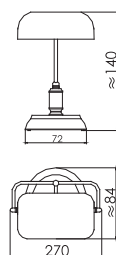
符合 GB/T3852.8 标准;符合 GB7000.1 标准;符合《钢质海船入级规范》。



CTD1

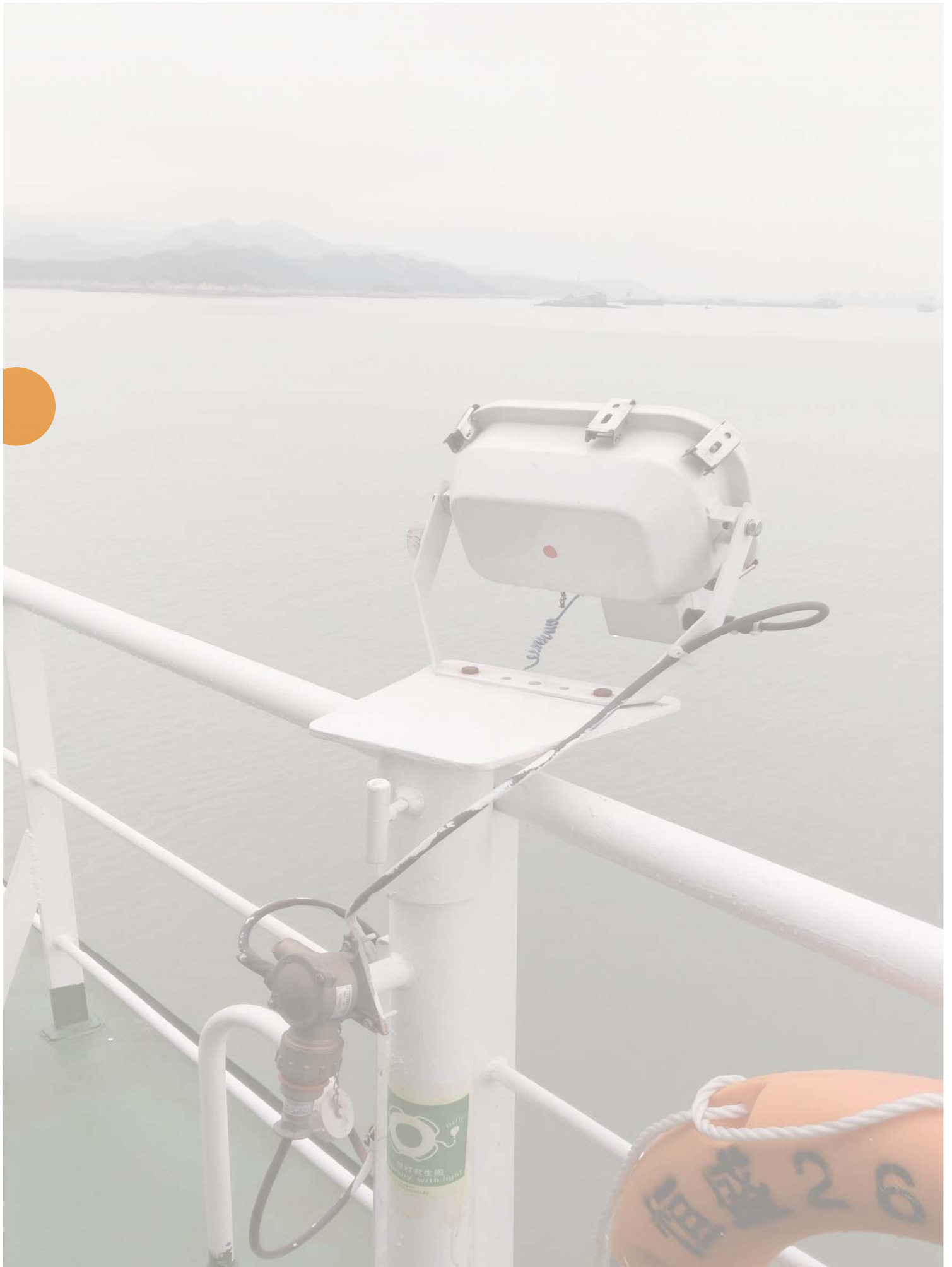


CTD2



CTD3

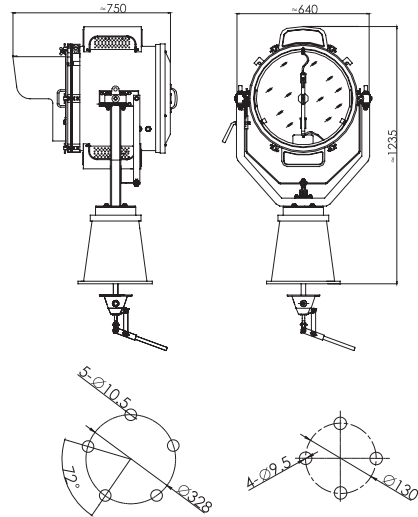
型号 Type	CTD1	CTD2	CTD3
电压 Voltage ( V )	220		
灯座 Lamp holder	E27	G24	E27
光源 / 功率 Light source/Power(W)	白炽灯 Incandescent lamp/40W 节能灯 Energy-saving lamp/8W	H 型节能灯管 H-tape energy-saving tube/27W	白炽灯 Incandescent lamp/60W 节能灯 Energy-saving lamp/8W
材质 Material	铜 Brass	塑料 Plastic	钢质 Steel
灯罩 Lampshade	白色磨光布 White polishing cloth	灰色 Gray	军绿色 Green
重量 Weight(Kg)	1.0	1.8	2.6



# 投光灯

Spot lights





#### ■ 适用范围：

该灯具适用于船舶夜航、救生、警戒等远距离照明和目标搜索。

#### ■ 产品特点：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质和不锈钢二种材料，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 灯具采用球形汞氙光源，配有专用镇流器和触发器。
5. 内部装有球形钢化玻璃反光镜和焦距调节装置，前后可灵活调节焦距。
6. 可以手动控制灯体水平旋转 180°，俯仰 30°。
7. 电缆外径  $\varnothing 10 \sim \varnothing 12.5\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

#### ■ The scope of application:

This product is designed to use for illumination during long distance and targeted searching on night navigation, life saving, alert etc.

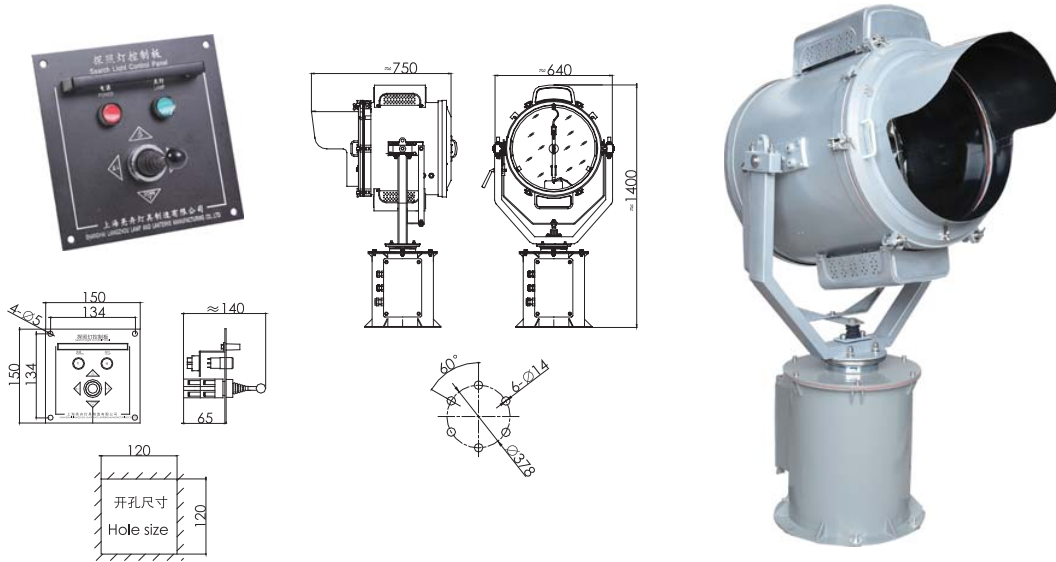
#### ■ Products feature:

1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel and stainless steel two type of material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. Adopted spherical mercury-xenon light source and matched special ballast and trigger.
5. There are spherical toughened glass reflector and focal distance adjustment device inside of light, which can adjust the focal distance flexibly from front to back.
6. Rotate the body of light 180 degree in horizontal and 30 degree in pitch by hand.
7. The cable outside diameter is  $\varnothing 10 \sim \varnothing 12.5\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光通量 (Lm) Luminous flux	防护等级 Protection class
1000	220	101	专用 For special use	60000	IP56



#### ■ The scope of application:

This product is designed to use for illumination during long distance and targeted searching on night navigation, life saving, alert etc.

#### ■ Products feature:

1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of good quality stainless steel material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. Adopted spherical mercury-xenon light source and matched special ballast and trigger.
5. There are spherical toughened glass reflector and focal distance adjustment device inside of light, which can adjust the focal distance flexibly from front to back.
6. A micro motor is mounted in base for controlling up and down or front and back, and matched special control box, which can control to rotate the body of light 180 degree in horizontal and 30 degree in pitch.
7. The cable outside diameter is  $\varnothing 10 \sim \varnothing 12.5\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society(CCS).

#### ■ 适用范围:

该灯具适用于船舶夜航、救生、警戒等远距离照明和目标搜索。

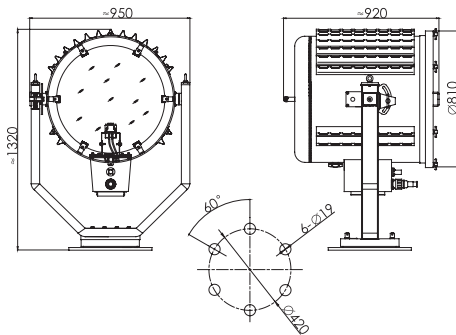
#### ■ 产品特性:

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用优质不锈钢材料，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 灯具采用球形汞氙光源，配有专用镇流器和触发器。
5. 内部装有球面钢化玻璃反光镜和焦距调节装置，前后可灵活调节焦距。
6. 底座内装有微型电机进行上下左右控制，并配有专用控制箱，能够在驾控台控制灯体水平旋转  $180^\circ$ ，俯仰  $30^\circ$ 。
7. 电缆外径  $\varnothing 10 \sim \varnothing 12.5\text{mm}$ 。

#### ■ 采用标准及产品认证:

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光通量 (Lm) Luminous flux	防护等级 Protection class
1000	220	92	专用 For special use	60000	IP56



■ 适用范围：

该灯具适用于船舶夜航、救生、警戒等远距离照明和目标搜索。

■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质和不锈钢二种材料，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 光源采用进口白炽聚光灯泡。光效高，使用寿命长。
5. 内部装有球面钢化玻璃反光镜和焦距调节装置，前后可灵活调节焦距。
6. 可以手动控制灯体水平旋转 180 度，俯仰 30 度。
7. 电缆外径  $\varnothing 16 \sim \varnothing 21\text{mm}$ 。

■ 采用标准：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。

■ The scope of application:

This product is designed to use for illumination with long distance and targeted searching on night navigation, life saving, alert etc.

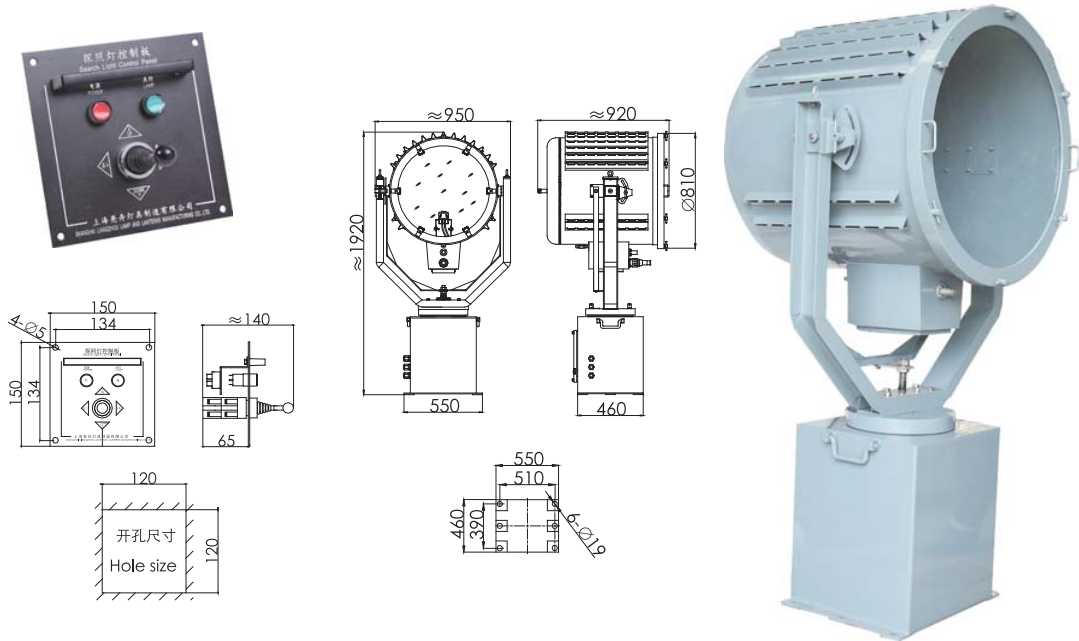
■ Products feature:

1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel and stainless steel two type of material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. Light source adopts imported incandescent focus bulbs. High light efficiency, and long service life.
5. There are spherical toughened glass reflector and focal distance adjustment device inside of light, which can adjust the focal distance flexibly from front to back.
6. Rotate the body of light 180 degree in horizontal and 30 degree in pitch by hand.
7. The cable outside diameter is  $\varnothing 16 \sim \varnothing 21\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.

功率 ( W ) Power	电压 ( V ) Voltage	重量 ( Kg ) Weight	灯座 Lamp holder	光通量 ( Lm ) Luminous flux	防护等级 Protection class
3000	220	150	G19( 灯泡型号为 SSB220/3Kw ) ( Bulb model is SSB220/3Kw )	52800	IP55



#### ■ Range of application:

This product is designed to use for illumination with long distance and targeted searching on night navigation, life saving, alert etc.

#### ■ Products feature:

1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of good quality stainless steel material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. Light source adopts imported incandescent focus bulbs. High light efficiency, and long service life.
5. There are spherical toughened glass reflector and focal distance adjustment device inside of light, which can adjust the focal distance flexibly from front to back.
6. A micro motor is mounted in base for controlling up and down or front and back, and matched special control box, which can control to rotate the body of light 180 degree in horizontal and 30 degree in pitch.
7. The cable outside diameter is  $\varnothing 16 \sim \varnothing 21$ mm.

#### ■ Adopt standard :

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.

#### ■ 适用范围：

该灯具适用于船舶夜航、救生、警戒等远距离照明和目标搜索。

#### ■ 产品特性：

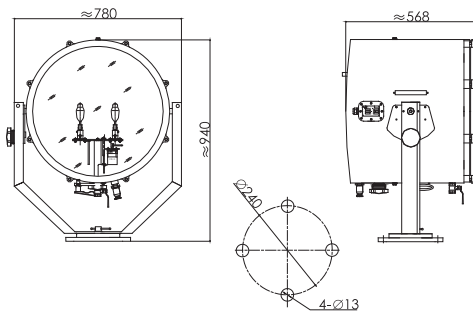
1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具外壳材料采用优质不锈钢，外表面喷涂船舶专用塑料，具有耐腐，抗冲击等特点。
4. 光源采用进口白炽聚光灯泡。光效高，使用寿命长。
5. 内部装有球面钢化玻璃反光镜和焦距调节装置，前后可灵活调节焦距。
6. 底座内装有微型电机进行上下左右控制，并配有专用控制箱，能够在驾控台控制灯体水平旋转  $180^\circ$ ，俯仰  $30^\circ$ 。
7. 电缆外径  $\varnothing 16 \sim \varnothing 21$ mm。

#### ■ 采用标准：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。

功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光通量 (Lm) Luminous flux	防护等级 Protection class
3000	220	227	G19(灯泡型号为 SSB220/3Kw) (Bulb model is SSB220/3Kw)	52800	IP55





#### ■ 适用范围：

该灯具适用于苏伊士运河及狭窄航道、夜航、和水面障碍物等进行搜索照明用。

#### ■ 产品特性：

1. 灯具移动方便，灯泡更换便捷。
2. 灯体全部采用优质铝材制作，重量轻，灯罩采用优质钢化玻璃。
3. 双灯泡结构设计，内装转换开关，可在未断电的情况下进行灯泡间的切换。
4. 两个半球形反光镜，可在  $\pm 5^\circ$  的水平范围内张合来调节反光效果。
5. 灯筒下设有安全排气阀，可保证灯筒内外气压平衡。
6. 灯具可水平旋转  $\pm 180^\circ$ ，俯仰  $\pm 30^\circ$  调节。
7. 平行的光束，射程远，光照集中。
8. 电缆外径  $\varnothing 12 \sim \varnothing 14\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 符合《苏伊士运河航行规则》。
5. 通过中国船级社 (CCS) 型式认可。

#### ■ The scope of application:

This product is designed to use for illumination when the ship pass through the SUEZ canal, the narrow sea-route on night navigation and searching obstructions etc.

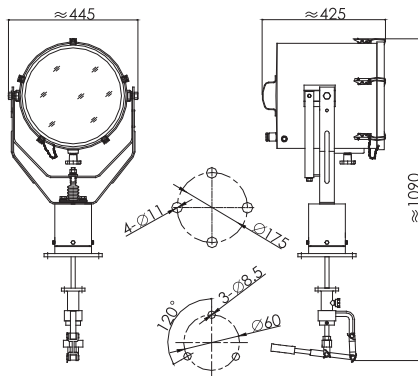
#### ■ Products feature:

1. Easy to remove and replace the bulbs.
2. The body of light is made of good quality Aluminum material with the feature of light weight. The shade adopt high quality toughened glass.
3. Designed structure with two bulbs and exchange switch inside, can change between the bulbs under the electricity.
4. Two hemisphere reflector, can adjust the reflect effect between  $\pm 5^\circ$  range.
5. Equipped safe vent valve under the lamp canister, can ensure the air pressure balance in and out the lamp canister.
6. Rotate the body of light  $\pm 180^\circ$  in horizontal and adjusted  $\pm 30^\circ$  in pitch.
7. Parallel light beam, far illumination distance, concentrated light.
8. The cable diameter outside is  $\varnothing 12 \sim \varnothing 14\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Conform to SUEZ CANAL NAVIGATION RULES.
5. Approved by China Classification Society (CCS).

功率 (W) Power	电压 (V) Voltage	光源 Illuminant	重量 (Kg) Weight	灯座 Lamp holder	光通量 (Lm) Luminous flux	照射距离 Irradiate distance	防护等级 Protection class
2000/3000	220	卤钨灯 Tungsten halogen light	70	G38	53000/80000	$\geq 1800\text{m}$	IP56



#### ■ The scope of application:

This product is designed to use for illumination in ship, mine, port, building site etc.

#### ■ Products feature:

1. Easy to install and replace the bulbs.
2. High luminous intensity and long illumination distance.
3. The shell of light is made of steel or stainless steel material and coated the surface by powder which is used for ship special, with the feature of corrosion and shock resistance.
4. The shade adopt transparent tempered safety glass.
5. The sphere toughened glass reflector has been installed inside, which can concentrate the ray of light to strong beam.
6. Joystick be matched and installed in cabin of ship, use it to control the body of light rotating 350 degree in horizontal and 30 degree in pitch.
7. The cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

#### ■ 适用范围：

该灯具适用于船舶、矿山、码头、建筑工地等大面积处照明。

#### ■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质或不锈钢材料，外表面喷涂船舶专用塑粉，具有防腐、抗冲击等特点。
4. 灯罩为透明钢化安全玻璃。
5. 内部装有球面钢化玻璃反光镜，能使发出的光线集中成强力的光束。
6. 配有操纵连杆可以在驾驶室内手动控制灯体水平旋转 350°，俯仰 30°。
7. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

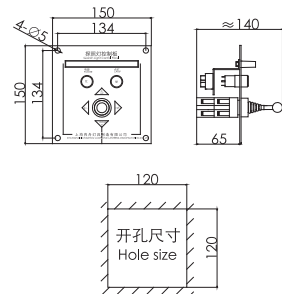
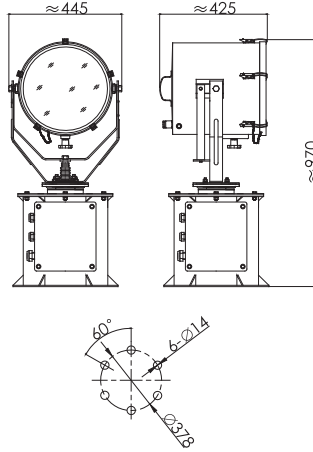
#### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

型号 Type	功率 (W) Power	电压 (V) Voltage	材质 Material	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 (Lm) Luminous flux	防护等级 Protection class
CTG3	1000	220/110	钢 steel	34	E40 / GX9.5	白炽聚光灯泡 Incandescent light bulbs	17000 / 22000	IP56
CTG3B			不锈钢 Stainless steel	36		卤钨灯 Tungsten halogen lamp		

# CTG3-A 斜座集光灯

## OBLIQUE SPOT LIGHT



### ■ 适用范围：

该灯具适用于船舶、矿山、码头、建筑工地等大面积处照明。

### ■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用质和不锈钢二种材料，外表面喷涂船舶专用塑粉，具有耐腐、抗冲击等特点。
4. 灯罩为透明钢化安全玻璃。
5. 内部装有球面钢化玻璃反光镜，能够使发出的光线集中成强力的光束。
6. 采用电动控制，配有专用控制器安装在驾控台，操作灵活方便，灯体可水平旋转 350 度，俯仰 30 度。
7. 电缆外径  $\varnothing 12 \sim \varnothing 14\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

### ■ The scope of application:

This product is designed to use for illumination in ship, mine, port, building site etc.

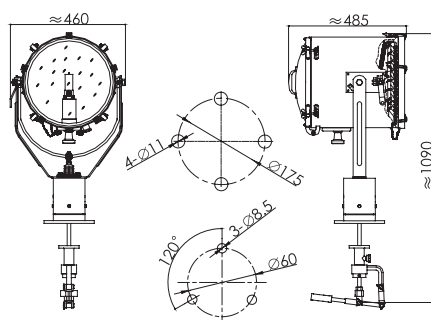
### ■ Products feature:

1. Easy to install and replace the bulbs.
2. High luminous intensity and long illumination distance.
3. The shell of light is made of steel or stainless steel material and coated the surface by powder which is used for ship special, with the feature of corrosion and shock resistance.
4. The shade adopt transparent tempered safety glass.
5. The sphere toughened glass reflector has been installed inside, which can concentrate the ray of light to strong beam.
6. Adopt electrical control way and match controller which is installed in wheelhouse control console, flexible and convenient operations, use it to control the body of light rotating 350 degree in horizontal and 30 degree in pitch.
7. The cable outside diameter is  $\varnothing 12 \sim \varnothing 14\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 (Lm) Luminous flux	防护等级 Protection class	备注 Remark
1000	220/110	40.5	E40	白炽聚光灯泡 Incandescent light bulbs	17000	IP56	附控制器 with control panel
			GX9.5	卤钨灯 Tungsten halogen lamp	22000		



■ The scope of application:

This product is designed to use for illumination in ship,mine,wharf,building site etc.

■ Products feature:

- 1.Easy to install and replace the bulbs.
- 2.High luminous intensity and long illumination distance.
- 3.The shell of light is made of steel or stainless steel two type of material and coated the surface by powder which is used for ship special, with the feature of corrosion and shock resistance.
- 4.The shade adopt transparent tempered safety glass.
- 5.The sphere toughened glass reflector has been installed inside,which can concentrate the ray of light to strong beam.
- 6.Joystick be matched and installed in cabin of ship,use it in hands to control the body of light rotating 350 degree in horizontal and 30 degree in pitch.
- 7.The cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard and products certification:

- 1.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
- 2.Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
- 3.Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
- 4.Approved by China Classification Society(CCS).

■ 适用范围：

该灯具适用于船舶、矿山、码头、建筑工地等大面积处照明。

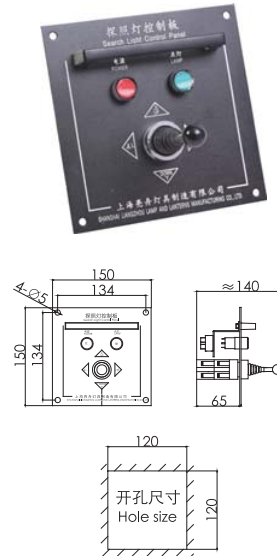
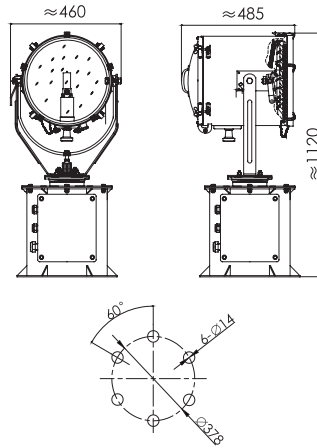
■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质或不锈钢材料，外表面喷涂船舶专用塑粉，具有耐腐、抗冲击等特点。
4. 灯罩为透明钢化安全玻璃。
5. 内部装有球面钢化玻璃反光镜，能使发出的光线集中成强力的光束。
6. 配有操纵连杆可以在驾驶室内手动控制灯体水平旋转 350°，俯仰 30°。
7. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

型号 Type	功率 (W) Power	电压 (V) Voltage	材质 Material	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 Luminous flux	防护等级 Protection class
TG3	1000	220/110	钢 steel	41.5	E40/GX9.5	白炽聚光灯泡 Incandescent light bulbs	17000/23000	IP56
TG3B			不锈钢 Stainless steel	44		卤钨灯 Tungsten halogen lamp		



■ 适用范围：

该灯具适用于船舶、矿山、码头、建筑工地等大面积处照明。

■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质和不锈钢二种材料，外表面喷涂船舶专用塑粉，具有耐腐、抗冲击等特点。
4. 灯罩为透明钢化安全玻璃。
5. 内部装有球面钢化玻璃反光镜，能使发出的光线集中成强力的光束。
6. 采用电动控制，配有专用控制器安装在驾控台，操作灵活方便，灯体可水平旋转 350°，俯仰 30°。
7. 电缆外径  $\varnothing 12 \sim \varnothing 14\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

■ The scope of application:

This product is designed to use for illumination in ship,mine,wharf,building site etc.

■ Products feature:

- 1.Easy to install and replace the bulbs.
- 2.High luminous intensity and long illumination distance.
- 3.The shell of light is made of steel or stainless steel two type of material and coated the surface by powder which is used for ship special, with the feature of corrosion and shock resistance.
- 4.The shade adopt transparent tempered safety glass.
- 5.The sphere toughened glass reflector has been installed inside,which can concentrate the ray of light to strong beam.
- 6.Adopt electrical control way and match controller installed in Wheelhouse Control Console, flexible and convenient operations,use it to control the body of light rotating 350 degree in horizontal and 30 degree in pitch.
- 7.The cable outside diameter is  $\varnothing 12 \sim \varnothing 14\text{mm}$ .

■ Adopt standard and products certification:

- 1.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
- 2.Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
- 3.Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
- 4.Approved by China Classification Society(CCS).

功率(W) Power	电压(V) Voltage	重量(Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量(Lm) Luminous flux	防护等级 Protection class	备注 Remark
1000	220/110	82	E40	白炽聚光灯泡 Incandescent light bulbs	17000	IP56	附控制器 with control panel
			GX9.5	卤钨灯 Tungsten halogen lamp	22000		

■ 适用范围：

该灯具适用于船舶、矿山、码头、建筑工地等大面积处照明。

■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质或不锈钢材料，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 灯罩为透明钢化安全玻璃。
5. 内部装有球面钢化玻璃反光镜，能使发出的光线集中成强力的光束。
6. 可以手动控制灯体水平旋转 180°，俯仰 30°。
7. 电缆外径  $\varnothing 10 \sim \varnothing 13\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社（CCS）型式认可。



■ The scope of application:

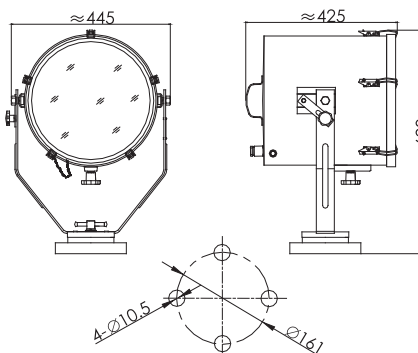
This product is designed to use for illumination in ship, mine, wharf, building site etc.

■ Products feature:

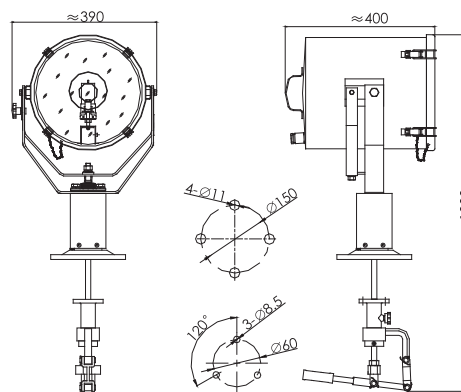
1. Installation convenience and easy to replace the bulbs.
2. High luminous intensity and long illumination distance
3. The body of light is made of steel and stainless steel two type of material, the surface be coated by powder which special use for ship, with the feature of corrosion and shock resistance.
4. The shade adopt transparent toughened safety glass.
5. The sphere toughened glass reflector has been installed inside, which can concentrate the ray of light to strong beam.
6. The body of light can be rotated by hands about 180 degree in horizontal and adjusted 30 degree in pitch.
7. The cable outside diameter is  $\varnothing 10 \sim \varnothing 13\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.



型号 Type	功率 (W) Power	电压 (V) Voltage	材质 Material	重量 (Kg) Weight	灯座 / 光源 / 光通量 Lamp holder / Illuminant Luminous flux	防护等级 Protection class
TG14	1000	220/110	钢 Steel	26.5	E40/ 白炽聚光灯泡 /17000 Lm Incandescent focus bulbs	IP56
TG14-B			不锈钢 Stainless steel	28.0	GX9.5/ 卤钨灯 /22000 Lm Tungsten halogen lamp	



■ 适用范围：

适用于船舶、码头、车站、广场、建筑工地照明。

■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质或不锈钢材料，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 高纯度反射器，采用进口光源，可在 -20° 以上环境下使用。
5. 配有操纵连杆可以在驾驶室内手动控制灯体水平旋转 350°，俯仰 30°。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

■ The scope of application:

This product is designed to use for illumination as search lighting at all kinds of ship, wharf, station, square, building site etc.

■ Products feature:

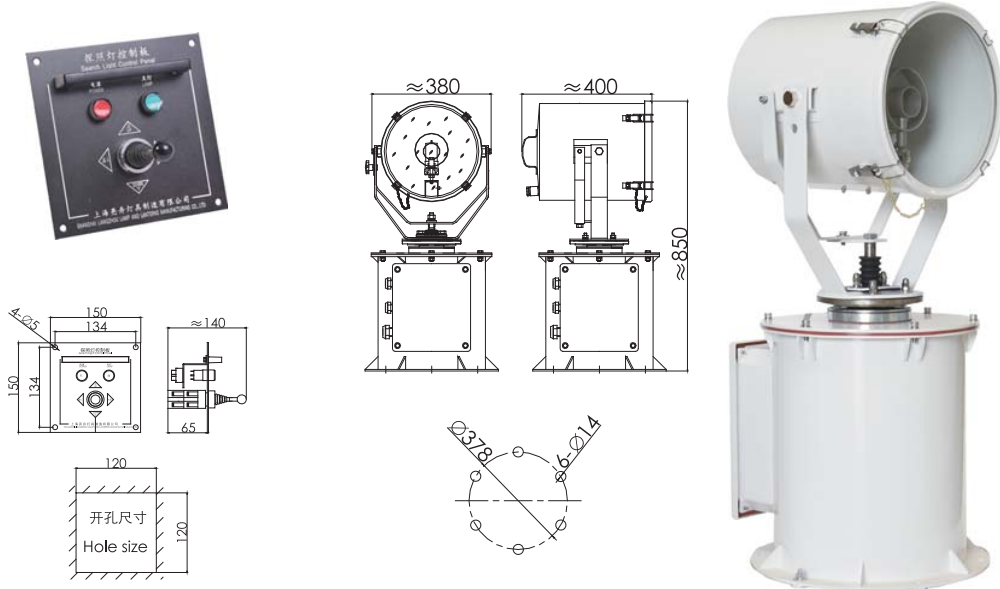
1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel and stainless steel two type of material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. High-pure reflector with imported light sources and can be used in temperature -20° above.
5. Matched joystick which can control to rotate the body of light 350 degree in horizontal and 30 degree in pitch by hand in cabin of ship.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

型号 Type	功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 (Lm) Luminous flux	防护等级 Protection class
TG26	300/500	220V/50Hz 220V/60Hz	23.6	GX9.5	卤钨灯 Tungsten halogen lamp	6900/12500	IP56
TG27	1000	23000					

# TG26-A/27-A 探照灯 SEARCH LIGHT



### ■ The scope of application:

This product is designed to use for illumination as search lighting at all kinds of ship, wharf, station, square, building site etc.

### ■ Products feature:

1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel and stainless steel two type of material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. High-pure reflector with imported light sources and can be used in temperature  $-20^{\circ}$  above.
5. Adopt electrical control way and match controller installed in Wheelhouse Control Console, flexible and convenient operations, use it to control the body of light rotating  $350^{\circ}$  degree in horizontal and  $30^{\circ}$  degree in pitch.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14$ mm.

### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

### ■ 适用范围:

适用于船舶、码头、车站、广场、建筑工地照明。

### ■ 产品特性:

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质或不锈钢材料，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 高纯度反射器，采用进口光源，可在  $-20^{\circ}$  以上环境下使用。
5. 采用电动控制，配有专用控制器安装在驾控台，操作灵活方便，灯体可水平旋转  $350^{\circ}$ ，俯仰  $30^{\circ}$ 。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14$ mm。

### ■ 采用标准及产品认证:

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

型号 Type	功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 (Lm) Luminous flux	防护等级 Protection class	备注 Remark
TG26-A	300/500	220V/50Hz 220V/60Hz	62.0	GX9.5	卤钨灯 Tungsten halogen lamp	6900/12500	IP56	附控制器 with controller
TG27-A	1000	23000						





### ■ 适用范围：

适用于船舶、码头、车站、广场、建筑工地照明。

### ■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质或不锈钢材料，外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 高纯度反射器，采用进口光源，可在 -20° 以上环境下使用。
5. 可以手动控制灯体水平旋转 350°，俯仰 30°。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

### ■ The scope of application:

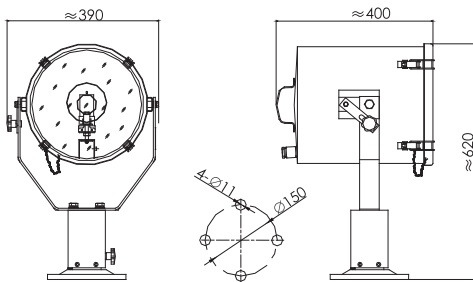
This product is designed to use for illumination as search lighting at all kinds of ship, wharf, station, square, building site etc.

### ■ Products feature:

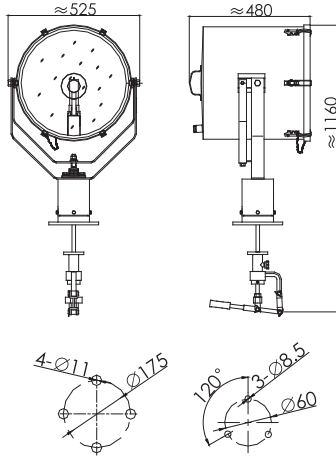
1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel and stainless steel two type of material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. High-pure reflector with imported light sources and can be used in temperature -20° above.
5. Can rotate the body of light 350 degree in horizontal and 30 degree in pitch by hand.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).



型号 Type	功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 (Lm) Luminous flux	防护等级 Protection class
TG26-B	300/500	220V/50Hz 220V/60Hz	18.4	GX9.5	卤钨灯 Tungsten halogen lamp	6900/12500	IP56
TG27-B	1000	23000					



■ **The scope of application:**

This product is designed to use for illumination as search lighting at all kinds of ship, wharf, station, square, building site etc.

■ **Products feature:**

1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel and stainless steel two type of material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. High-pure reflector with imported light sources and can be used in temperature  $-20^{\circ}$  above.
5. Matched joystick which can control to rotate the body of light 350 degree in horizontal and 30 degree in pitch by hand in cabin of ship.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14$ mm.

■ **Adopt standard and products certification:**

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society(CCS).

■ **适用范围:**

适用于船舶、码头、车站、广场、建筑工地照明。

■ **产品特性:**

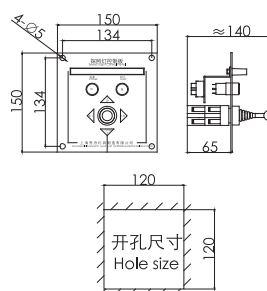
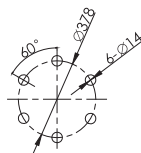
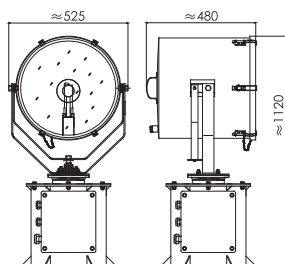
1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具壳体采用钢质或不锈钢材料，外表面喷涂船舶专用塑粉，具有防腐，抗冲击等特点。
4. 高纯度反射器，采用进口光源，可在  $-20^{\circ}$  以上环境下使用。
5. 配有操纵连杆可以在驾驶室内手动控制灯体水平旋转  $350^{\circ}$ ，俯仰  $30^{\circ}$ 。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14$ mm。

■ **采用标准及产品认证:**

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 (Lm) Luminous flux	防护等级 Protection class
2000	220V/50Hz 220V/60Hz	35.0	GY16	卤钨灯 Tungsten halogen lamp	53000	IP56

# TG28-A 探照灯 SEARCH LIGHT



## ■ 适用范围：

适用于船舶、码头、车站、广场、建筑工地照明。

## ■ 产品特性：

1. 灯具安装方便，灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具外壳采用金属材料（钢质 / 不锈钢）外表面喷涂船舶专用塑粉，具有耐腐，抗冲击等特点。
4. 高纯度反射器，采用进口光源，可在  $-20^{\circ}$  以上使用。
5. 采用电动控制，配有专用控制器安装在驾控台，操作灵活方便，灯体可水平旋转  $350^{\circ}$ ，俯仰  $30^{\circ}$ 。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

## ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社（CCS）型式认可。

## ■ The scope of application:

This product is designed to use for illumination as search lighting at all kinds of ship, wharf, station, square, building site etc.

## ■ Products feature:

1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel or stainless steel material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. High-pure reflector with imported light sources and can be used in temperature  $-20^{\circ}$  above.
5. Adopt electrical control way and match controller installed in wheelhouse control console, flexible and convenient operations, use it to control the body of light rotating  $350^{\circ}$  degree in horizontal and  $30^{\circ}$  degree in pitch.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

## ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 (Lm) Luminous flux	防护等级 Protection class	备注 Remark
2000	220V/50Hz 220V/60Hz	76.5	GY16	卤钨灯 Tungsten halogen lamp	53000	IP56	附控制器 with controller



■ 适用范围:

适用于船舶、码头、车站、广场、建筑工地照明。

■ 产品特性:

1. 灯具安装方便, 灯泡更换便捷。
2. 发光强度高、照明距离远。
3. 灯具外壳采用金属材料(钢质/不锈钢)外表面喷涂船舶专用塑粉, 具有耐腐, 抗冲击等特点。
4. 高纯度反射器, 采用进口光源, 可在 -20° 以上使用。
5. 可以手动控制灯体水平旋转 350 度, 俯仰 30 度。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

■ 采用标准及产品认证:

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

■ The scope of application:

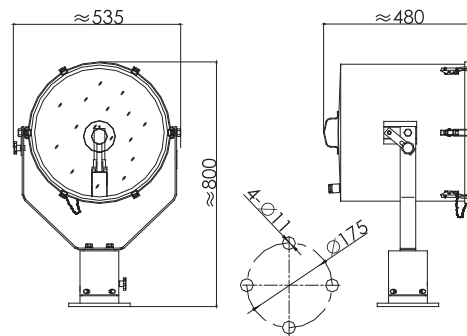
This product is designed to use for illumination as search lighting at all kinds of ship, wharf, station, square, building site etc.

■ Products feature:

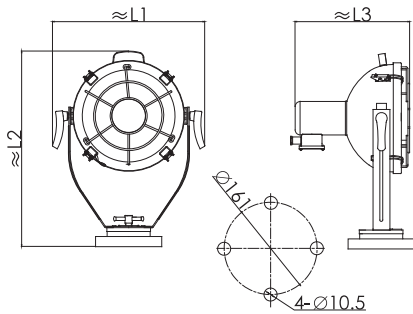
1. Easy to install and replace the bulbs.
2. High lighting intensity and long illuminate distance.
3. The body of light is made of steel or stainless steel material which surface be coated by ship special use powder with the feature of excellent corrosion and shock resistance.
4. High-pure reflector with imported light sources and can be used in temperature -20° above.
5. Rotate the body of light 350 degree in horizontal and 30 degree in pitch by hand.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society(CCS).



功率 (W) Power	电压 (V) Voltage	重量 (Kg) Weight	灯座 Lamp holder	光源 Illuminant	光通量 ( Lm ) Luminous flux	防护等级 Protection class
2000	220V/50Hz 220V/60Hz	28.4	GY16	卤钨灯 Tungsten halogen lamp	53000	IP56



■ 适用范围：

该灯具适用于船舶、港口、码头、车站和广场等地照明用。

■ 产品特性：

1. 灯具灯泡更换便捷。
2. 灯体采用优质钢材模压成型。
3. 灯罩为钢化安全玻璃。
4. 反光镜经过镀铬抛光处理，反射率高。
5. 灯具可水平旋转 360°，俯仰 120° 调节。
6. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
  2. 符合 GB 7000.7《投光灯具安全要求》。
  3. 符合 GD01《电气电子产品型式认可试验指南》。
  4. 通过中国船级社 (CCS) 型式认可。
- ★备注 :A 为不带防护罩, B 为带防护罩。

■ The scope of application:

This product is designed to use for illumination in ship, port, wharf, station and square etc.

■ Products feature:

1. Easy to replace the bulbs for light.
2. The body of light is made of good quality steel by compression molding.
3. The shade adopt toughed safety glass.
4. The reflector has high reflectivity after chrome-plating and polishing processing.
5. The body of light can be rotated 360 degree in horizontal and adjusted 120 degree in pitch.
6. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

Note: A means without protective cover, B means with protective cover.

型号 Type	TG1A/B	TG2A/B
L1(mm)	≈ 460	≈ 526
L2(mm)	≈ 586	≈ 670
L3(mm)	≈ 345	≈ 364
功率 ( W ) POWER	300	500
电压 (V) Voltage	220	
光源 Illuminant	白炽灯泡 Incandescent light	
重量 (Kg) Weight	10.0	11.8
灯座 Lamp holder	E40	
光通量 (Lm) Luminous flux	4610	8300
防护等级 Protection class	IP56	

■ 适用范围：

该灯具适用于船舶、港口、码头、车站和广场等地照明用。

■ 产品特性：

1. 灯具灯泡更换便捷。
2. 灯体全部采用钢、铜材制作。
3. 灯罩为钢化安全玻璃。
4. 反光镜经过镀铬抛光处理，反射率高。
5. 灯具可水平旋转 90°，俯仰 120° 调节。
6. 电缆外径  $\varnothing 9 \sim \varnothing 12\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。



■ The scope of application:

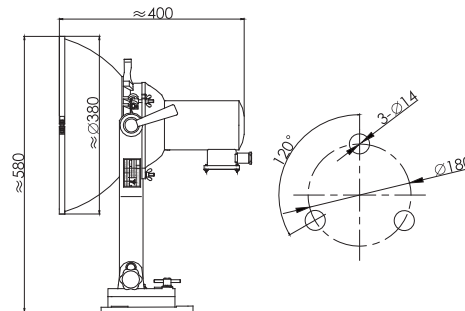
This product is designed to use for illumination in ship, mine, wharf, building site etc.

■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of steel or brass material.
3. The shade adopt toughened safety glass.
4. The reflector have high reflective after chrome-plating and polish processing.
5. The body of light can be rotated 90 degree in horizontal and adjusted 120 degree in pitch.
6. The cable outside diameter is  $\varnothing 9 \sim \varnothing 12\text{mm}$ .

■ Adopt standard and products certification:

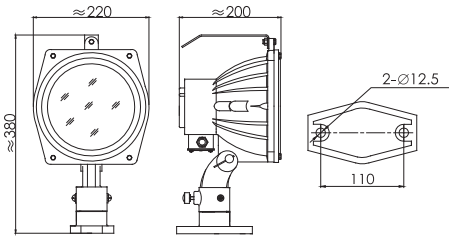
1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society(CCS).



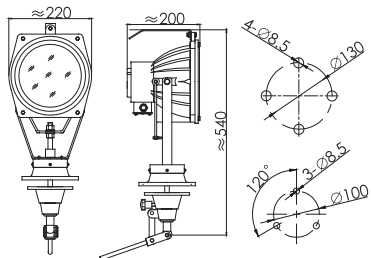
型号 Type	材质 Material	功率 (W) Power	电压 (V) Voltage	光源 Illuminant	重量 (Kg) Weight	灯座 Lamp holder	光通量 (Lm) Luminous flux	防护等级 Protection class
TG7	钢 Steel	450	220	自镇流汞灯泡 GYZ450 Self-ballast mercury light	11.3	E40	11000	IP56
TG7-A	铜 Brass				14.2			



TG8



TG9



■ 适用范围：

该灯具适用于船舶探索、夜行、救生、水面作业等局部照明。

■ 产品特性：

1. 灯具灯泡更换便捷。
2. 灯体采用铝合金压铸成形，结构坚固、抗腐蚀、重量轻。
3. 具有防震、防松装置。
4. 灯具可水平旋转 360°，俯仰 120° 调节。
5. 灯具采用卤钨灯泡，具有光色好，效率高，使用寿命约 2000 小时。
6. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

■ The scope of application:

This product is designed to use for illumination in ship for searching, navigation at night, life saving, underwater operation etc.

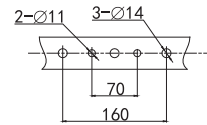
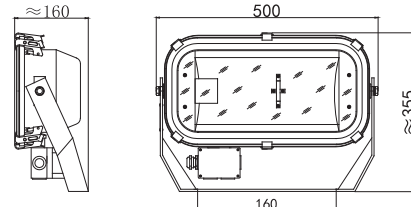
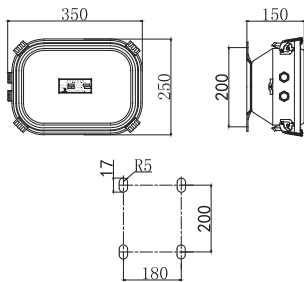
■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of Aluminum alloy by molded compression, with the feature of firm in structure, corrosion resistance and light weight.
3. With the device of shock proof and prevent loosening.
4. The body of light can be rotated 360 degree in horizontal and adjusted 120 degree in pitch.
5. Adopt tungsten halogen bulb with the feature of good coloring, high efficiency, longer life 2000 hours.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

型号 Type	材质 Material	功率 (W) Power	电压 (V) Voltage	光源 Illuminant	重量 (Kg) Weight	灯座 Lamp holder	光通量 (Lm) Luminous flux	防护等级 Protection class
TG8	铝合金	100/200	12/24	卤钨灯 G6.35 Tungsten halogen light	4.1	G6.35	2000/4500	IP56
TG9	铝合金				7.9			



■ The scope of application:

This product is designed to use for illumination in ship, dock, port and wharf, square and tunnel etc.

■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of good quality stainless steel by compression molding with excellent corrosion resistance.
3. The shade adopt toughened glass.
4. The body of light can be adjusted about 90 degree up and 45 degree down.
5. High-pure aluminum reflector with perfect reflective effect.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14$ mm.

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society(CCS).

■ 适用范围：

该灯具适用于各类船舶、船坞、港口码头、广场及隧道照明等。

■ 产品特性：

1. 灯具灯泡更换便捷。
2. 灯体采用优质不锈钢模压成型、抗腐蚀性强。
3. 灯罩采用钢化玻璃。
4. 灯具壳体可向上 90°，向下 45° 调节。
5. 灯具采用高纯度铝制反光镜，反光效果好。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14$ mm。

■ 采用标准及产品认证：

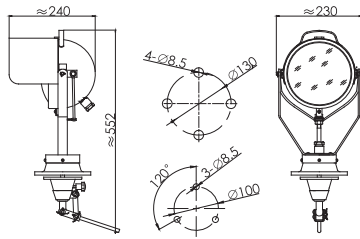
1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

电压 Voltage	光源 Illuminant	功率 (W) Power	光通量 (Lm) Luminous flux	重量 (Kg) Weight	灯座 Lamp holder	防护等级 Protection class	备注 Remark
220V/50Hz 220V/60HZ 110V/60Hz	高压钠灯 HP sodium lamp	250	26000	7.5	E40	IP56	附镇流器箱 With ballast box
		400	47000				
	金属卤化物灯 Metal halide lamp	250	20500				
		400	36000				

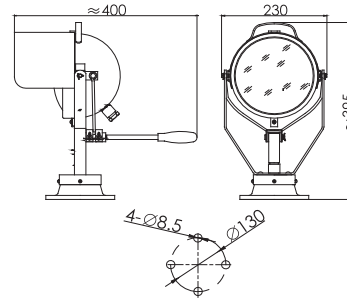




TG16A



TG16B



■ 适用范围：

该灯具适用于中、小型船舶夜间航行、厂矿、码头等处检修和警戒照明之用。

■ 产品特性：

1. 体积小、操作灵活。
2. 灯体为钢质外壳，铸铁底座。
3. 灯具可作水平旋转 180°，俯仰 45° 调节。
4. 灯具采用反射灯泡，光效高。
5. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。

■ The scope of application:

This product is designed to use for illumination for service or alarm lighting at small and medium size when navigate at night, factories and mines, wharf etc.

■ Products feature:

1. Small volume and flexible of operation.
2. The body of light is composed of steel shell and cast iron base.
3. The body of light can be rotated 180 degree in horizontal and adjusted 45 degree in pitch.
4. Reflector bulbs with high lighting efficiency.
5. The cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.

型号 Type	功率 (W) Power	电压 (V) Voltage	光源 Illuminant	重量 (Kg) Weight	灯座 Lamp holder	光通量 (Lm) Luminous flux	防护等级 Protection class
TG16A	100/200	12/24	反射灯泡	6.2	专用 For special use	1600	IP45
TG16B			Reflecting bulbs	4.4			



■ 适用范围：

该灯具适用于各类船舶甲板、堆场、码头、广告等照明用。

■ 产品特性：

1. 灯具灯泡更换便捷。
2. 灯体材料分为不锈钢或钢质两种，抗腐蚀性强。
3. 底部装有减震装置。
4. 灯具壳体可作水平 180° 旋转，上下俯仰 45° 调节。
5. 灯具采用高纯度铝制反光镜，反光效果好。
6. 灯罩采用钢化玻璃。
7. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

■ The scope of application:

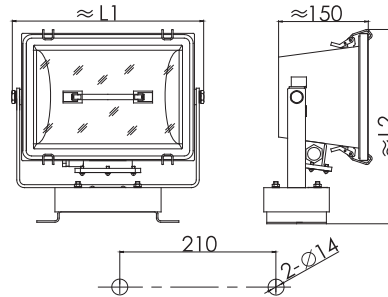
This product is designed to use for illumination in desk of ship, storage yard, wharf, advertisement etc.

■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of stainless steel or steel two type of material with excellent corrosion resistance.
3. There are shock resistance device in the bottom.
4. The body of light can be rotated 180 degree in horizontal and adjusted 45 degree up and down.
5. High-pure aluminum reflector with perfect reflective effect.
6. The shade adopt toughened glass.
7. The cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).



型号 Type	功率 (W) POWER	L1 (mm)	L2 (mm)	材质 Material	重量 (Kg) Weight	电压 Voltage	光源 Illuminant	光通量 (Lm) Luminous flux	灯座 Lamp holder	防护等级 Protection class
TG17	500	325	330	不锈钢 Stainless steel	5.4	110V/60Hz 220V/50Hz	卤钨灯 Tungsten halogen lamp	8500	R7S	IP56
	1000	440	415		8.8			22000		
TG17S	500	325	330	钢 Steel	5.1	220V/60HZ	卤钨灯 Tungsten halogen lamp	8500	R7S	IP56
	1000	440	415		8.3			22000		



■ 适用范围：

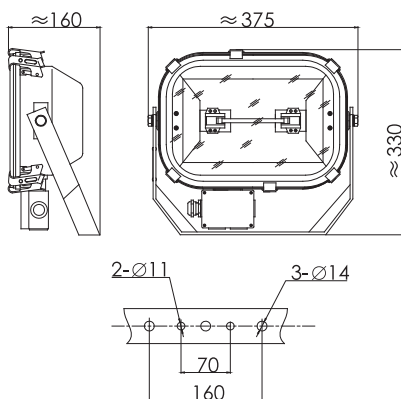
该灯具适用于各类船舶、船坞、港口码头、堆货场和体育场等露天场所投光照明用。

■ 产品特性：

1. 灯具灯泡更换便捷。
2. 灯体采用优质不锈钢制造而成、抗腐蚀强。
3. 灯罩采用钢化玻璃。
4. 灯具壳体可向上 90°，向下 45° 调节。
5. 灯具采用高纯度铝制反光镜，反光效果好。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。



■ The scope of application:

This product is designed to use for illumination at all kinds of ship, dock, port and wharf, storage yard and gym etc. outdoor workplace like above.

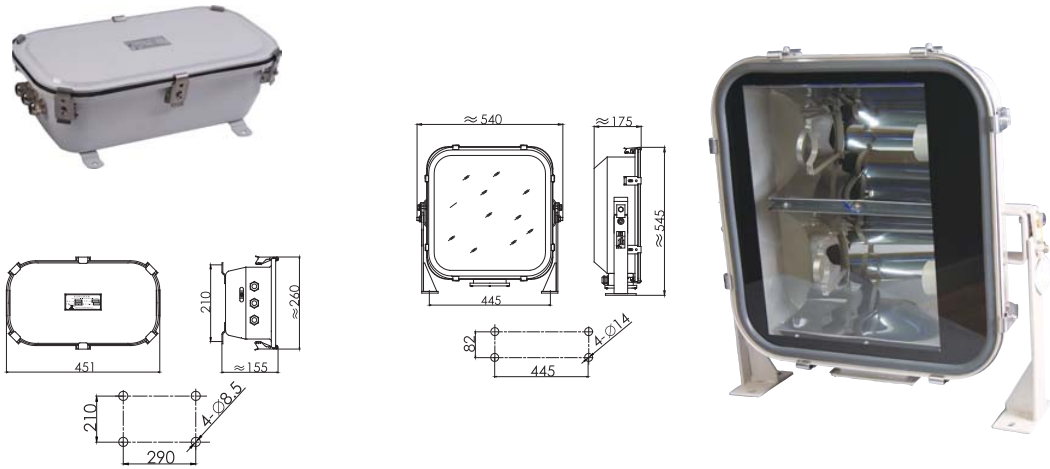
■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of good quality stainless steel material with excellent corrosion resistance.
3. The shade adopt toughened glass.
4. The body of light can be adjusted 90 degree up and 45 degree down.
5. High-pure aluminum reflector with perfect reflective effect.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

型号 Type	电压 (V) Voltage	光源 Illuminant	功率 (W) Power	光通量 (Lm) Luminous flux	重量 (Kg) Weight	灯座 Lamp holder	防护等级 Protection class
TG18	220V/50Hz	卤钨灯 Tungsten halogen lamp	200	3300	5.5	R7S	IP56
			300	4800			
			500	8500			



■ The scope of application:

This product is designed to use for illumination as flood lighting at all kinds of ship, dock, port and wharf, storage yard and gym etc. outdoor workplace like above.

■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of good quality stainless steel material by compression molding with excellent corrosion resistance.
3. The shade adopt toughened glass.
4. The body of light can be adjusted 90 degree up and 45 degree down.
5. High-pure aluminum reflector with perfect reflective effect.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14$ mm.

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

■ 适用范围:

该灯具适用于各类船舶、船坞、港口码头、堆货场和体育场等露天场所投光照明用。

■ 产品特性:

1. 灯具灯泡更换便捷。
2. 灯体采用优质不锈钢模压成型、抗腐蚀性强。
3. 灯罩采用钢化玻璃。
4. 灯具壳体可向上 90°，向下 45° 调节。
5. 灯具采用高纯度铝制反光镜，反光效果好。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14$ mm。

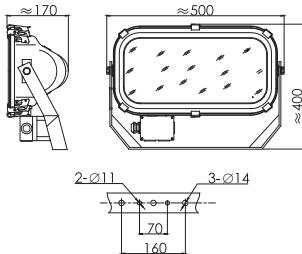
■ 采用标准及产品认证:

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

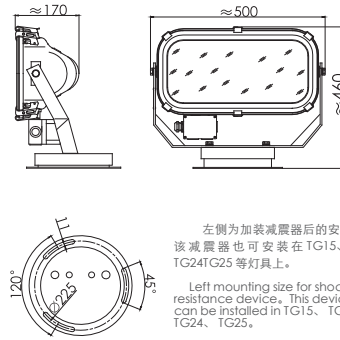
型号 Type	电压 (V) Voltage	光源 Illuminant	功率 (W) Power	光通量 (Lm) Luminous flux	重量 (Kg) Weight	灯座 Lamp holder	防护等级 Protection class	备注 Remark
TG19	220V/50Hz 220V/60Hz	卤钨灯 (型号 JTT) Tungsten halogen lamp (type JTT)	2X500	2X8500	13.7	E40	IP56	—
			2X1000	2X22000				
	220V/50Hz 220V/60Hz 110V/60Hz	高压钠灯 HP sodium lamp	2X250	2X26000	13.9			附镇流器箱 with ballast box
		金属卤化物灯 Metal halide lamp	2X400	2X47000				
TG19 一体化 Integration	220V/50Hz 220V/60Hz	高压钠灯 HP sodium lamp	1X250	1X26000	15.9	E40	IP56	内置式 镇流器 ballast inside of light
			1X400	1X47000	16.8			
	220V/50Hz 220V/60Hz	金属卤化物灯 Metal halide lamp	1X250	1X20500	15.9			
			1X400	1X36000	16.8			
	220V/60Hz 110V/60Hz				18.7			
					18.7			



TG20



加装减震器 TG20J  
With shockresistance device TG20J



左侧为加装减震器后的安装尺寸。  
该减震器也可安装在TG15、TG18、  
TG24/TG25等灯具上。

Left mounting size for shock  
resistance device. This device also  
can be installed in TG15、TG18、  
TG24、TG25.

### ■ 适用范围：

该灯具适用于各类船舶、船坞、港口码头、堆货场和体育场等露天场所投光照明用。

### ■ 产品特性：

1. 灯体采用优质不锈钢制造而成、抗腐蚀性能强。
2. 灯具壳体可作向上 90°，向下 45° 调节。
3. 灯具采用高纯度铝制反光镜，反光效果好。
4. 灯具底部可安装减震器，减震效果良好
5. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

### ■ The scope of application:

This product is designed to use for illumination as flood lighting at all kinds of ship, dock, port and wharf, storage yard and gym etc. outdoor workplace like above.

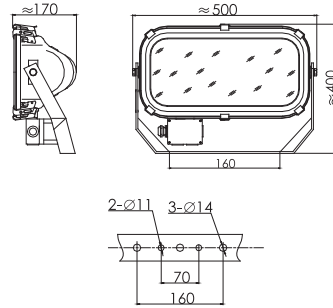
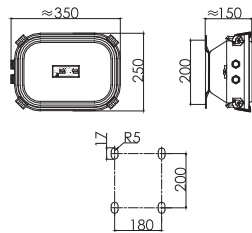
### ■ Products feature:

1. The body of light is made of good quality stainless steel material by compression molding with excellent corrosion resistance.
2. The body of light can be adjusted 90 degree up and 45 degree down.
3. High-pure aluminum reflector with perfect reflective effect.
4. Can be installed shock absorber in the bottom with better effect.
5. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

型号 Type	电压 (V) Voltage	光源 Illuminant	功率 (W) Power	光通量 (Lm) Luminous flux	重量 (Kg) Weight	灯座 Lamp holder	防护等级 Protection class
TG20	220V/50Hz	卤钨灯	1000	22000	7.1	R7S	IP56
TG20J	220V/60HZ	Tungsten halogen lamp			9.1		



■ The scope of application:

This product is designed to use for illumination as flood lighting at all kinds of ship, dock, port and wharf, storage yard and oil platform etc. outdoor workplace like above.

■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of good quality stainless steel material by compression molding with excellent corrosion resistance.
3. The shade adopt toughened glass.
4. The body of light can be adjusted 90 degree up and 45 degree down.
5. High-pure aluminum reflector with perfect reflective effect.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

■ 适用范围:

该灯具适用于各类船舶、船坞、港口码头、堆货场和石油平台等露天场所投光照明用。

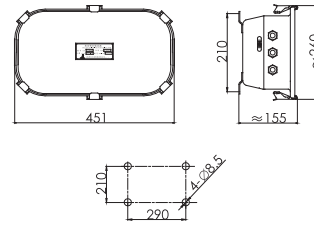
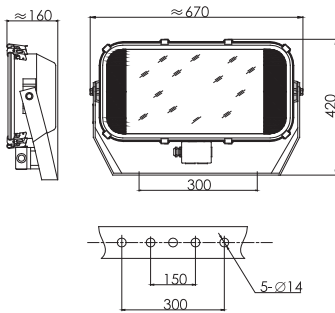
■ 产品特性:

1. 灯具灯泡更换便捷。
2. 灯体采用优质不锈钢模压成型、抗腐蚀性强。
3. 灯罩采用钢化玻璃。
4. 灯具壳体可作向上  $90^\circ$ ，向下  $45^\circ$  调节。
5. 灯具采用高纯度铝制反光镜，反光效果好。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

■ 采用标准及产品认证:

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

型号 Type	电压 (V) Voltage	光源 Illuminant	功率 (W) Power	光通量 (Lm) Luminous flux	重量 (Kg) Weight	灯座 Lamp holder	防护等级 Protection class	备注 Remark
TG24	220V/50Hz 220V/60HZ	卤钨灯 (型号 JTT) Tungsten halogen lamp (type JTT)	500	8500	7.1	E40	IP67	—
			1000	22000				
TG25	220V/50Hz 220V/60HZ 110V/60Hz	高压钠灯 HP sodium lamp	250	26000	7.3			
			400	47000				
		金属卤化物灯 Metal halide lamp	250	20500				
			400	36000				



■ 适用范围：

该灯具适用于舰船、建筑、大厦、施工场所等工作照明和反射投光。

■ 产品特性：

1. 灯具灯泡更换便捷。
2. 灯体采用优质不锈钢模压成型、抗腐蚀性强。
3. 灯罩采用钢化玻璃。
4. 灯具壳体可作向上 90°，向下 45° 调节。
5. 灯具采用高纯度铝制反光镜，反光效果好。
6. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 符合 GD01《电气电子产品型式认可试验指南》。
4. 通过中国船级社 (CCS) 型式认可。

■ The scope of application:

This product is designed to use for illumination as search lighting at all kinds of ship, building, square, construction site etc.

■ Products feature:

1. Easy to replace the bulbs.
2. The body of light is made of good quality stainless steel by compression molding with the feature of excellent corrosion resistance.
3. The shade adopt toughened glass.
4. Can adjust the body of light 90 degree up and 45 degree down.
5. High-pure aluminum reflector with perfect reflective effect.
6. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

■ Adopt standard and products certification:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.
4. Approved by China Classification Society (CCS).

型号 Type	电压 (V) Voltage	光源 Illuminant	功率 (W) Power	光通量 (Lm) Luminous flux	重量 (Kg) Weight	灯座 Lamp holder	防护等级 Protection class	备注 Remark
TG30	220V/50Hz 220V/60Hz 110V/60Hz	高压钠灯 HP sodium lamp 金属卤化物灯 Metal halide lamp	1000	12000	12.6	E40	IP56	附镇流器箱 with ballast box

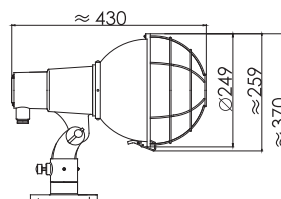
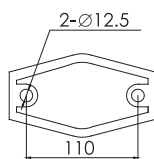
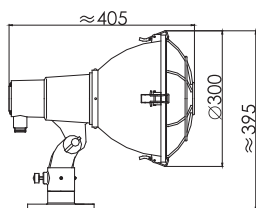
# TG63-TG64 | 投光灯 SPOT LIGHT



TG63



TG64



■ **The scope of application:**

This product is designed to use for illumination at engine cabin of warship, or operation on desk.

■ **Products feature:**

1. Easy to install and replace the bulbs.
2. The body of light adopt aluminum alloy material shaped by molding.
3. Rotate the body of light 180 degree in horizontal and adjusted 45 degree in pitch.
4. The cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

■ **Adopt standard:**

1. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
2. Conform to GD01 of GUIDELINES FOR TYPE APPROVAL TEST OF ELECTRIC AND ELECTRONIC PRODUCTS.

■ **适用范围:**

该灯具适用于舰船机舱、甲板作业照明用。

■ **产品特性:**

1. 灯具灯泡更换便捷。
2. 灯体采用铝合金铸造成型。
3. 灯具壳体可俯仰  $45^\circ$ ，水平  $180^\circ$  调节。
4. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

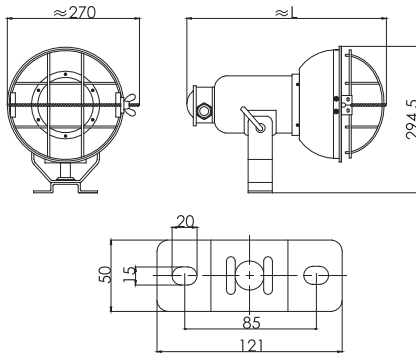
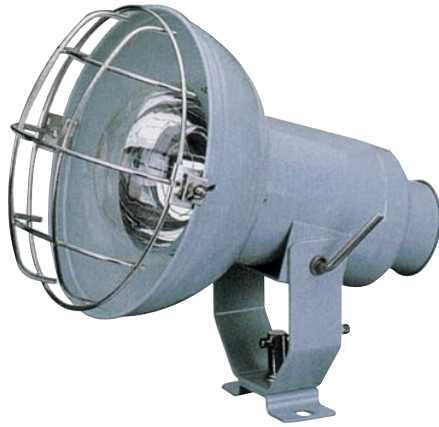
■ **采用标准:**

1. 符合 GB 7000.7 《投光灯具安全要求》。
2. 符合 GD01 《电气电子产品型式认可试验指南》。

型号 Type	电压 (V) Voltage	光源 Illuminant	功率 (W) Power	重量 (Kg) Weight	灯座 Lamp holder	防护等级 Protection class
TG63	220V/50Hz	白炽灯泡 Incandescent	300	5.3	E40	IP56
TG64	220V/60HZ	反射灯泡 Reflecting bulbs	300/500	3.3		IP34



# FDL-R13/R14 | 投光灯 SPOT LIGHT



### ■ 适用范围：

该灯具适用于各类船舶、船坞、港口、码头、堆货场和石油平台等露天场所作投光照明用。

### ■ 产品特性：

1. 灯体和支架采用优质不锈钢模压成型、抗腐蚀性强。
2. 灯具可向上 46°，向下 45° 调节。水平旋转 360°。
3. 电缆外径  $\varnothing 12 \sim \varnothing 14\text{mm}$ 。
4. 灯具防护等级 IP56。

### ■ 采用标准：

1. 符合《钢质海船入级规范》。
2. 符合 GB 7000.7《投光灯具安全要求》。
3. 采用日本 JIS C8105-2-5-2003 标准组织生产。

### ■ The scope of application:

This product is designed to use for spot lighting in ship, shipyard, port, wharf, storage yard, and oil-platform etc.

### ■ Products feature:

1. The body and support of light adopt good quality stainless steel which are molded by compression molding, with the feature of excellent corrosion resistance.
2. The body of light can be adjusted 46 degree up, 45 degree down and rotated 360 degree in horizontal.
3. The cable outside diameter is  $\varnothing 12 \sim \varnothing 14\text{mm}$ .
4. Protection class: IP56.

### ■ Adopt standard:

1. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
2. Conform to GB7000.7 of SAFETY REQUIREMENTS FOR FLOOD LIGHT.
3. Adopt JAPAN JIS C8105-2-5-2003 STANDARD TO ORGANIZE PRODUCTION.

型号 Type	L (mm)	电压 (V) Voltage	光源 Illuminant		光通量 (Lm) Luminous flux	使用寿命 (h) Using life	灯座 Lamp holder	重量 (Kg) Weight
FDL-R13	390	220V/50Hz 220V/60Hz 110V/60Hz	聚光白炽灯 Incandescent lamp spot tape	RS300/500WH	2920/5120	2000	E39/E40	3.2
			泛光白炽灯 Incandescent lamp wide tape	RF300/500WH				
			自镇流汞灯 Self-ballast mercury light	BHRF300/500WH	4100/9000	9000		
			卤钨灯 Tungsten halogen lamp	JD250/500WH	3570/7000	2000		
FDL-R14	434	220V/50Hz 220V/60Hz 110V/60Hz	透明汞灯 Mercury Lamp clear tape	HR250/300/400N	8700/9600/13000	12000	E39/E40	3.3
			荧光汞灯 Mercury lamp fluorescent tape	HRF200/250/300/400X	7000/9500 11500/15500			
			聚光白炽灯 Incandescent lamp spot tape	RS1000WH	10800	2000		3.5
			泛光白炽灯 Incandescent lamp wide tape	RF750/1000WH	8100/10800			

# 防爆灯

Explosion-proof light



■ 适用范围:

- 1、适用于可能积聚易燃易爆气体和各有关危险区域：如舰船、石油平台、化工、煤矿等场所。
- 2、适用于有易燃物质和易爆气体的舱室：如蓄电池室、油漆间、及液化气货船等危险区域。
- 3、爆炸性气体环境所用的电气设备分为：  
I类：煤矿用电气设备；II类：除煤矿外的其他爆炸性气体环境所用的电气设备。II类电气设备可以按爆炸性气体的特性进一步分类。II类隔爆型“d”和本安型“i”。电气设备又分为II A、II B和II C类。标志II B的设备可适用于II A设备的使用条件，标志II C的设备可适用于II A和II B设备的使用条件。

■ The scope of application:

1. Applied to the place which may accumulate the gas of inflammable and explosive and each relevant dangerous area,such as ship,petroleum platform , chemical place, coal and other places etc.
- 2.Applied to the cabins which have inflammable and explosive gas,such as the dangerous place of accumulator room,painting room and liquid cargo ship etc.
- 3.Electrical equipment used in the explosive gas environment is divided into:  
I Series: Coal mine electric equipment.II Series:In addition to the coal mine of other electrical equipment used in the explosive gas environment.  
According to the characteristic of the explosive gas,the electric equipment of II category can be divided:flameproof “d” of II category and essence safety “i”,the electric equipment can be divided into IIA ,IIB and IIC category,the remarking IIB equipment fit for the use condition of II A’ s equipment,the remarking II C equipment fit for the use condition of II A and II B’ s equipment.

■ 采用标准:

符合国标 GB12045;GB3836-1/2/3/9;GB7000.1;GB19510.4 标准 ;符合中国船级社 GD01 标准 ;符合国际 IEC 标准。

■ Adopt standard:

Conform to national standard of GB12045;GB3836-1/2/3/9;GB7000.1;GB19510.4.Conform to China Classification Society GD01 standard;Conform to international IEC standard.

■ 爆炸性气体的设备分级 The equipment classification for explosive gas

组别 Group	最小点燃电流比 MICR min ignition current	最大试验安全间隙 MESG(mm)max safe clearance
II A	MICR > 0.8	MESG ≥ 0.9
II B	0.45 ≤ MICR ≤ 0.8	0.5 < MESG < 0.9
II C	MICR < 0.45	MESG ≤ 0.5

注：MESG 试验在常温常压 ( 20° ,0.1MPa ) 条件下进行。

Note:MESG test can be carried out under the condition of normal pressure (20 ° , 0.1 MPa)

■ 设备允许最高表面温度 (°C) The allowable max temperature of surface

T1	T2	T3	T4	T5	T6
450	300	200	135	100	85

■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物的舱室或露天场所作照明用。

■ 产品特性:

1. 壳体采用优质铜材铸造成型, 灯罩采用硬质硼砂玻璃, 带铜质防护网罩。
2. 灯体采用的密封结构, 具有良好的防水性能和防腐性能。
3. 灯具使用温度  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
4. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准:

1. 符合 GB3836;GB12045 标准。
2. 符合《钢质海船入级规范》。

■ The scope of application:

Suitable for illumination for possible accumulation of explosive gas mixtures of cabin or outdoor spaces.

■ Products feature:

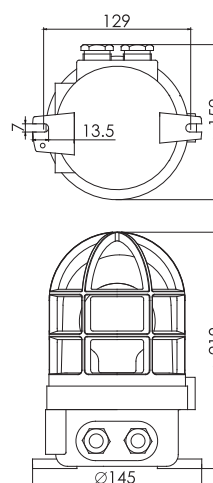
1. The shell adopts good quality cast brass, lampshade adopts hard borax glass, with brass protective guard.
2. The lamp body adopts seal structure with high waterproof and corrosion resistance.
3. The lamps can work normally under the temperature  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .
4. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard:

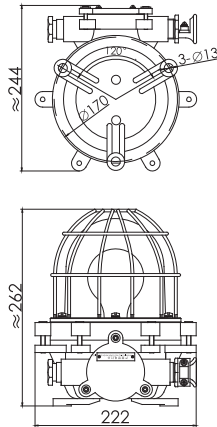
1. Conform to GB3836;GB12045 standard.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.



CFD1-2



型号 Type	CFD1-1	CFD1-2	CFD1-3
填料函示意图 schematic diagram for gland box			
防爆标志 Explosion proof mark	Ex d II CT4		
电压 Voltage	220V/24V		
光源 Light source	白炽灯 Incandescent lamp		
功率 Power	60W		
灯座 Lamp holder	E27		
防护等级 Protection class	IP66		
重量 Weight(Kg)	4.0		



#### ■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物, 爆炸性气体环境为 II A、II B、II C, 温度组别为 T1 ~ T3、T1 ~ T5 的舱室或露天场所作照明用。

#### ■ 产品特性:

1. 壳体采用优质铜材铸造成型, 灯罩采用硬质硼砂玻璃, 带不锈钢防护网罩。
2. 灯体采用的密封结构, 具有良好的防水性能和防腐性能。
3. 灯具使用温度  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
4. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

#### ■ 产品认证:

1. 经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。
2. 通过中国船级社、法国船级社和国家渔业船舶检验局型式认可。

#### ■ The scope of application:

Suitable for illumination for possible accumulation of explosive gas mixtures, explosive gas atmospheres II A, II B, II C, temperature class: T1 ~ T3, T1 ~ T5 cabin or outdoor spaces.

#### ■ Products feature:

1. The shell adopts good quality cast brass, lampshade adopts hard borax glass, with stainless steel protective guard.
2. The lamp body adopts seal structure with high waterproof and corrosion resistance.
3. The lamps can work normally under the temperature  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .
4. Cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{mm}$ .

#### ■ Products certification:

1. This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).
2. Approved by type approval of CCS (China Classification Society), type approval of BV (France Classification Society) and type approval of ZY (China Fishery Inspection Bureau).

型号 Type	CFD2a		
防爆标志 Explosion proof mark	Ex d II CT5Gb	Ex d II CT3Gb	
防爆合格证编号 Explosion proof quality certificate number	NLE12.0556	NLE12.0555X	
电压 Voltage	220V		
功率 Power	60W	$\leq 200\text{W}$	$\leq 125\text{W}$
光源 Light source	白炽灯 Incandescent lamp		自镇流高压汞灯 self ballast high pressure mercury lamp
灯座 Lamp holder	E27		
防护等级 Protection class	IP66		
重量 Weight(Kg)	13.2		

#### ■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物，爆炸性气体环境为 II A、II B、II C，温度组别 220V/60W ~ 100W 为 T1 ~ T4、24V/25W 为 T1 ~ T6 的舱室或露天场所作照明用。

#### ■ 产品特性:

1. 壳体采用优质铜材铸造成型，灯罩采用硬质硼砂玻璃，带不锈钢防护网罩。
2. 灯体采用的密封结构，具有良好的防水性能和防腐性能。
3. 灯具使用环境温度 -20℃ ~ +40℃。
4. 电缆外径  $\varnothing 9 \sim \varnothing 11$  mm。

#### ■ 产品认证:

1. 经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。
2. 通过中国船级社、法国船级社和国家渔业船舶检验局型式认可。



#### ■ The scope of application:

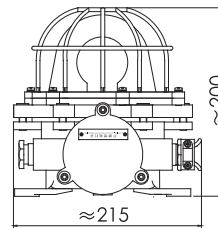
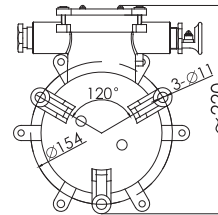
Suitable for illumination for possible accumulation of explosive gas mixtures, explosive gas atmospheres II A, II B, II C, temperature class :220V/60W ~ 100W for T1 ~ T4, 24V/25W for T1 ~ T6 cabin or outdoor spaces.

#### ■ Products feature:

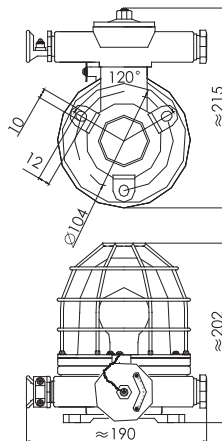
1. The shell adopts good quality cast brass, lampshade adopts hard borax glass, with stainless steel protective guard.
2. The lamp body adopts seal structure with high waterproof and corrosion resistance.
3. The lamps can work normally under the temperature -20℃ ~ +40℃.
4. Cable outside diameter is  $\varnothing 9 \sim \varnothing 11$  mm.

#### ■ Products certification:

1. This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).
2. Approved by type approval of CCS (China Classification Society), type approval of BV (France Classification Society) and type approval of ZY (China Fishery Inspection Bureau).



型号 Type	CFD3			CFD4C	
	防爆标志 Explosion proof mark	Ex d II CT4		Ex d II CT6	Ex d II CT4
防爆合格证编号 Explosion proof quality certificate number	NLE12.0557		NLE12.0558	NLE12.0557	
电压 Voltage	220V		24V	220V	
功率 Power	100W	60W	25W	100W	60W
光源 Light source	白炽灯 Incandescent lamp				
灯座 Lamp holder	E27				
防护等级 Protection class	IP66				
重量 Weight(Kg)	10.4			10.2	



#### ■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物，爆炸性气体环境为 II A、II B、II C，温度组别 220V/60W 为 T1 ~ T4、24V/25W 为 T1 ~ T6 的舱室或露天场所作照明用。

#### ■ 产品特性:

1. 壳体采用优质铜材铸造成型，灯罩采用硬质硼砂玻璃，带不锈钢防护网罩。
2. 灯体采用的密封结构，具有良好的防水性能和防腐性能。
3. 灯具使用环境温度  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
4. 电缆外径  $\varnothing 10 \sim \varnothing 12 \text{ mm}$ 。

#### ■ 产品认证:

1. 经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。
2. 通过中国船级社、法国船级社和国家渔业船舶检验局型式认可。

#### ■ The scope of application:

Suitable for illumination for possible accumulation of explosive gas mixtures, explosive gas atmospheres II A, II B, II C, temperature class :220V/60W for T1 ~ T4, 24V/25W for T1 ~ T6 cabin or outdoor spaces.

#### ■ Products feature:

- 1.The shell adopts good quality cast brass,lampshade adopts hard borax glass,with stainless steel protective guard.
- 2.The lamp body adopts seal structure with high waterproof and corrosion resistance.
- 3.The lamps can work normally under the temperature  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .
- 4.Cable outside diameter is  $\varnothing 10 \sim \varnothing 12 \text{ mm}$ .

#### ■ Products certification:

- 1.This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).
- 2.Approved by type approval of CCS(China Classification Society),type approval of BV(France Classification Society) and type approval of ZY(China Fishery Inspection Bureau).

型号 Type	CFD5	
防爆标志 Explosion proof mark	Ex d II CT4	Ex d II CT6
防爆合格证编号 Explosion proof quality certificate number	NLE12.0559	NLE12.0560
电压 Voltage	220V	24V
功率 Power	60W	25W
光源 Light source	白炽灯 Incandescent lamp	
灯座 Lamp holder	E27	
防护等级 Protection class	IP56	
重量 Weight(Kg)	7.0	

■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境为 II A, 温度组别为 T1 ~ T2 危险区域的临时工作场地作手提移动照明。

■ 产品特性:

1. 灯体结构由增安型主体部分和隔爆型灯头部分组成。灯体采用高温硫化硅橡胶模压成型, 灯罩采用硬质硼砂玻璃。带不锈钢网罩。
2. 灯具使用环境温度 -10°C ~ +40°C。
3. 电缆外径  $\varnothing 8\text{mm}$ , 导线截面积  $1.0\text{mm}^2$ 。

■ 产品认证:

经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。通过欧盟 (ATEX) 型式认可。



■ The scope of application:

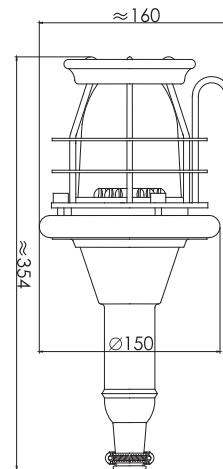
Applies to portable illumination for ships, oil platforms, chemical and explosive gas atmospheres II A, temperature class T1 ~ T2 in dangerous area of temporary work site .

■ Products feature:

1. Light body structure is consists of the main part of the increased safety and flameproof lamp holder body parts. Light body with high-temperature vulcanized silicone rubber molding, with hard borax glass lampshade. With stainless steel protective guard.
2. The lamps can work normally under the temperature -10°C ~ +40°C
3. Cable outside diameter  $\varnothing 8\text{mm}$ . Cross-sectional area  $1.0\text{mm}^2$ .

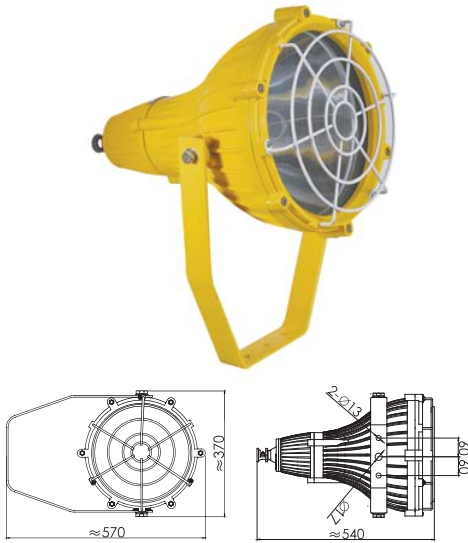
■ Products certification:

This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL). Approved by ATEX (UE) .



型号 Type	CFS1	
防爆标志 Explosion proof mark	Ex d e II A T350°C Gb	Ex d e II A T2 Gb
防爆合格证编号 Explosion proof quality certificate number	NLE13.0587X	NLE13.0588X
光源 Light source	白炽灯 Incandescent lamp	
功率 Power	60W	40W
电压 Voltage	220V/110V/24V	
灯座 Lamp holder	E27	
防护等级 Protection class	IP56	
重量 Weight(Kg)	2.3	





#### ■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境为 II C, 温度组别为 T1 ~ T2、T1 ~ T3、T1 ~ T4 的危险区域 1 区、2 区作照明或远距离照明用。

#### ■ 产品特性:

1. 壳体采用优质铝材铸造成型, 灯罩采用硬质硼砂玻璃, 带不锈钢防护网罩。
2. 反光罩用镜面铝板制成, 具有反射率高, 受照均匀等特点。
3. 灯具使用环境温度  $T_a 45^{\circ}\text{C}$ 。
4. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ , 导线截面积  $1.5\text{mm}^2$ 。
5. 最大投影面积:  $0.066\text{m}^2$ 。

#### ■ 产品认证:

1. 经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。
2. 通过中国船级社、法国船级社和国家渔业船舶检验局型式认可。

#### ■ The scope of application:

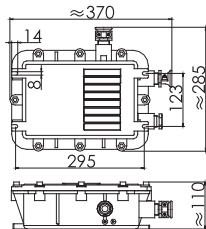
Applied to illumination for ship, oil exploit platform, chemical and explosive gas atmospheres II C, temperature class T1 ~ T2, T1 ~ T3, T1 ~ T4 dangerous places zone 1, zone 2.

#### ■ Products feature:

1. The shell adopts good quality cast aluminum, lampshade adopts hard borax glass, with stainless steel protective guard.
2. The reflector is made of mirror aluminum plate with high reflectivity, exposed uniformity and other characteristics.
3. The lamp can be used in ambient temperature  $T_a 45^{\circ}\text{C}$ .
4. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ , Cross-sectional area  $1.5\text{mm}^2$ .
5. The maximum projected area  $0.066\text{m}^2$ .

#### ■ Products certification:

1. This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).
2. Approved by type approval of CCS (China Classification Society), type approval of BV (France Classification Society) and type approval of ZY (China Fishery Inspection Bureau).



防爆电气箱  
Ex-proof electrical box

型号 Type	CFT1				
防爆标志 Explosion proof mark	Ex d II CT2 Gb		Ex d II CT3 Gb		Ex d II CT4 Gb
防爆合格证编号 Explosion proof quality certificate number	NLE12.0561X		NLE12.0562X		NLE12.0563
光源 Light source	自镇流汞灯 Self-ballast mercury light	金卤灯 Metal halide lamp	高压钠灯 High Pressure Sodium	金卤灯 Metal halide lamp	自镇流汞灯 Self-ballast mercury light
功率 Power	450W	400W	250W	400W	250W
电压 Voltage	220V/50Hz 220V/60Hz				
灯座 Lamp holder	E40				
防护等级 Protection class	IP56				
重量 Weight(Kg)	17.1				

#### ■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境为 II B, 温度组别为 T1 ~ T2、T1 ~ T3 的危险区域 1 区、2 区作照明或远距离照明用。

#### ■ 产品特性:

1. 壳体采用优质铝材铸造成型, 灯罩采用硬质硼砂玻璃。
2. 反光罩用镜面铝板制成, 具有反射率高, 受照均匀等特点。
3. 灯具使用环境温度  $T_a \leq 45^\circ\text{C}$ 。
4. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ , 导线截面积  $1.5\text{mm}^2$ 。
5. 最大投影面积:  $0.073\text{m}^2$ 。

#### ■ 产品认证:

- 1、经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。
- 2、通过中国船级社、法国船级社和国家渔业船舶检验局型式认可。

#### ■ The scope of application:

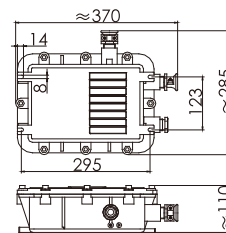
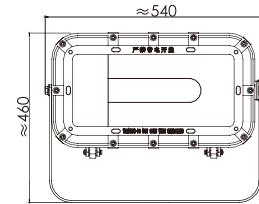
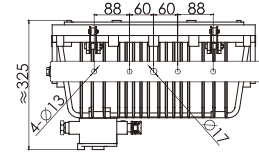
Applied to illumination for ship, oil exploit platform, chemical and explosive gas atmospheres II B, temperature class T1 ~ T2, T1 ~ T3 dangerous places zone 1, zone 2.

#### ■ Products feature:

1. The shell adopts good quality cast aluminum, lampshade adopts hard borax glass.
2. The reflector is made of mirror aluminum plate with high reflectivity, exposed uniformity and other characteristics.
3. The lamp can be used in ambient temperature  $T_a \leq 45^\circ\text{C}$ .
4. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ , Cross-sectional area  $1.5\text{mm}^2$ .
5. The maximum projected area  $0.073\text{m}^2$ .

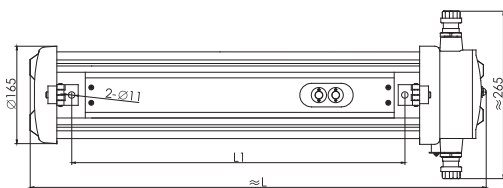
#### ■ Products certification:

1. This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).
2. Approved by type approval of CCS (China Classification Society), type approval of BV (France Classification Society) and type approval of ZY (China Fishery Inspection Bureau).



防爆电气箱  
Ex-proof electrical box

型号 Type	CFT2					
防爆标志 Explosion proof mark	Ex d II BT2 Gb		Ex d II BT3 Gb			
防爆合格证编号 Explosion proof quality certificate number	NLE12.0564		NLE12.0565			
光源 Light source	卤钨灯 halogen light		高压钠灯 HP sodium lamp		金卤灯 Metal halide lamp	
功率 Power	500W	300W	250W	400W	250W	400W
电压 Voltage	220V/50Hz 220V/60Hz					
灯座 Lamp holder	E40					
防护等级 Protection class	IP56					
重量 Weight(Kg)	28.7					



#### ■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境中危险区域1区、2区,可燃性气体、蒸汽级别为II A、II B、II C级,温度组别为T1~T6的危险场所作照明用。

#### ■ 产品特性:

- 1、壳体用优质铜材铸造成型,灯体采用的密封结构,具有良好的防水性能和防腐性能。
- 2、采用管型荧光灯光源,安装方式为吊挂式,更换灯管方便。
- 3、电缆外径 $\varnothing 11 \sim \varnothing 12$  mm。

#### ■ 产品认证:

- 1、经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。
- 2、通过中国船级社和法国船级社型式认可。

#### ■ The scope of application:

Applied to illumination for ship, oil exploit platform, chemical and explosive gas atmospheres zone 1, zone 2, flammable gases, vapors level II A, II B, II C level, Temperature class T1 ~ T6 dangerous places.

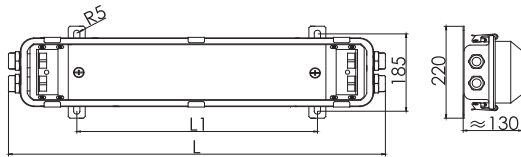
#### ■ Products feature:

1. The shell adopts high quality cast brass, the light body adopts seal structure, has good waterproof performance and anti-corrosion performance.
2. Adopt tubular fluorescent light source, mounting type is hanging, it is convenient to replace the fluorescent tube.
3. Cable outside diameter is  $\varnothing 11 \sim \varnothing 12$  mm.

#### ■ Products certification:

1. This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).
2. Approved by type approval of CCS (China Classification Society) and type approval of BV (France Classification Society).

型号 Type	CFY20-2/1	CFY30-2/1	CFY40-2/1
L(mm)	776	1082	1385
L1(mm)	561	867	1170
防爆标志 Explosion proof mark	Ex d II CT6Gb		
防爆合格证编号 Explosion proof quality certificate number	NLE12.0553X		
电压 Voltage	220V/50Hz 220V/60Hz 110V/60Hz		
功率 Power	20WX2/1	30WX2/1	40WX2/1
灯座 Lamp holder	G13		
防护等级 Protection class	IP56		
重量 Weight(Kg)	13.0	15.1	17.3



#### ■ The scope of application:

Applied to illumination for ship, oil exploit platform, chemical and explosive gas atmospheres zone 1, zone 2. Temperature class T1 ~ T5 explosion dangerous places in the general distribution area.

#### ■ Products feature:

1. The shell adopts high quality steel stamping molding, the surface of light is powered coating.
2. The lampshade is made of amine acid ester with impact resistance, corrosion resistance, heat-resistant transparent.
3. Clips adopts integral type, has a good waterproof performance.
4. Mounting type: hanging or ceiling.
5. The whole light adopts flameproof type, increased safety type of explosion-proof structure.
6. Cable outside diameter is  $\varnothing 11 \sim \varnothing 12$  mm.
7. Equipped with B15d emergency lamp holder, installation 24V / 1.5W emergency bulb, as temporary lighting when power off. If you need emergency light, please note when you sign the contract.

#### ■ Products certification:

1. This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).
2. Approved by type approval of CCS (China Classification Society) and type approval of BV (France Classification Society).

#### ■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境中危险区域 1 区、2 区，温度组别为 T1 ~ T5 的爆炸危险场所中一般配电区域作照明使用。

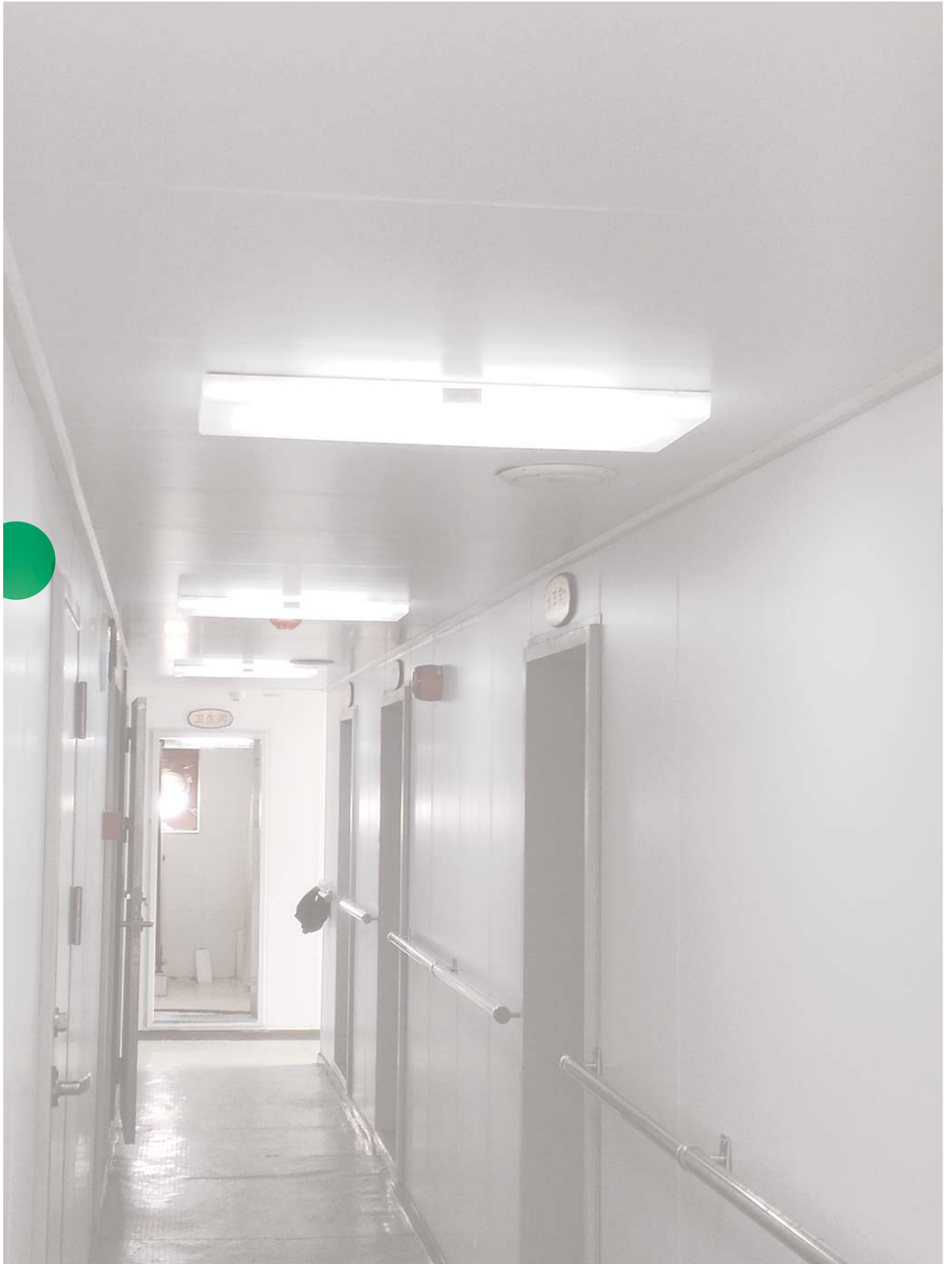
#### ■ 产品特性:

1. 壳体选用优质钢材冲压成型，表面并作喷塑处理。
2. 灯罩选用抗冲击、耐腐蚀、耐热透明的聚胺酸酯。
3. 搭扣选用整体式结构，具有良好的防水性能。
4. 灯具安装方式为吊挂式或吸顶式。
5. 灯具整体采用隔爆、增安型的防爆结构。
6. 电缆外径  $\varnothing 11 \sim \varnothing 12$  mm。
7. 灯具可配置应急灯座，用于安装 24V/1.5W 应急灯泡，作为断电时临时照明用。

#### ■ 产品认证:

1. 经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。
2. 通过中国船级社和法国船级社型式认可。

型号 Type	CFYD20-2/2E	CFYD30-2/2E	CFYD40-2/2E
L(mm)	742	1042	1342
L1(mm)	480	700	
防爆标志 Explosion proof mark	Ex em b II T5Gb		
防爆合格证编号 Explosion proof quality certificate number	NLE12.0567X		
电压 Voltage	220V/50Hz 220V/60Hz 110V/60Hz		
功率 Power	20WX2	30WX2	40WX2
灯座 Lamp holder	Fa6		
防护等级 Protection class	IP56		
重量 Weight(Kg)	5.6/5.7	6.4/6.5	7.1/7.2



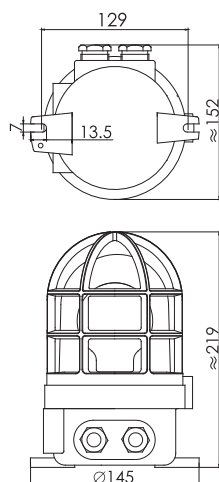
# LED 灯具

LED lamps and lanterns series





CFD1LED-2



#### ■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物的舱室或露天场所作照明用。

#### ■ 产品特性:

1. 壳体采用优质铜材铸造成型, 灯罩采用硬质硼砂玻璃, 带铜质防护网罩。
2. 灯体采用的密封结构, 具有良好的防水性能和防腐性能。
3. LED 光源, 使用寿命长, 光强度高, 能耗低。
4. 灯具使用温度  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
5. 电缆外径  $\varnothing 10 \sim \varnothing 12 \text{ mm}$ 。

#### ■ 采用标准:

符合 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 等标准。

#### ■ The scope of application:

Suitable for illumination for possible accumulation of explosive gas mixtures of cabin or open spaces.

#### ■ Products feature:

1. The shell adopts good quality cast brass, lampshade adopts hard borax glass, with brass guard.
2. The lamp body adopts seal structure with high waterproof and corrosion resistance.
3. LED light source, long working life, high light intensity, low energy consumption.
4. The lamps can work normally under the temperature  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .
4. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12 \text{ mm}$ .

#### ■ Adopt standard:

Conform to 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 standard.

型号 Type	CFD1LED-1	CFD1LED-2	CFD1LED-3
填料函示意图 Cable gland diagram			
防爆标志 Explosion proof mark	Ex d II CT4		
电压 Voltage	220V		
光源 Light source	LED		
功率 Power	12W		
防护等级 Protection class	IP66		
重量 Weight(Kg)	4.0		

■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物, 爆炸性气体环境为 II A、II B、II C, 温度组别为 T1 ~ T3、T1 ~ T5 的舱室或露天场所作照明用。

■ 产品特性:

1. 壳体采用优质铜材铸造成型, 灯罩采用硬质硼砂玻璃, 带铜质防护网罩。
2. 灯体采用的密封结构, 具有良好的防水性能和防腐性能。
3. LED 光源, 使用寿命长, 光强度高, 能耗低。
4. 灯具使用温度  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11 \text{ mm}$ 。

■ 采用标准:

符合 3836.1; GB12045; EN50014; EN50018; EN60079; GB17743; GB19510.1; GB19510.14 等标准。



■ The scope of application:

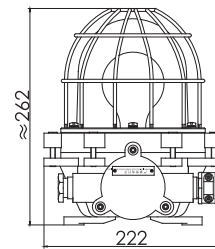
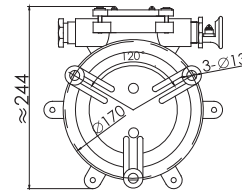
Suitable for illumination for possible accumulation of explosive gas mixtures, explosive gas environment II A, II B, II C, temperature class: T1 ~ T3, T1 ~ T5 of cabin or open spaces.

■ Products feature:

1. The shell adopts good quality cast brass, lampshade adopts hard borax glass, with stainless steel guard.
2. The lamp body adopts seal structure with high waterproof and corrosion resistance.
3. LED light source, long working life, high light intensity, low energy consumption.
4. The lamps can work normally under the temperature  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .
5. Cable outside diameter is  $\varnothing 9 \sim \varnothing 11 \text{ mm}$ .

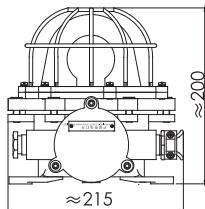
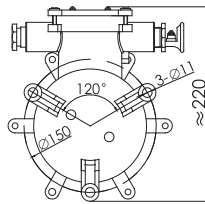
■ Adopt standard:

Conform to 3836.1; GB12045; EN50014; EN50018; EN60079; GB17743; GB19510.1; GB19510.14 standard.



型号 Type	CFD2aLED
防爆标志 Explosion proof mark	Ex d II CT5Gb
电压 Voltage	220V
功率 Power	12W
光源 Light source	LED
防护等级 Protection class	IP66
重量 Weight(Kg)	13.2





#### ■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物，爆炸性气体环境为 II A、II B、II C，温度组别为 T1 ~ T4 的舱室或露天场所作照明用。

#### ■ 产品特性:

1. 壳体采用优质铜材铸造成型，灯罩采用硬质硼砂玻璃，带铜质防护网罩。
2. 灯体采用的密封结构，具有良好的防水性能和防腐性能。
3. LED 光源，使用寿命长，光强度高，能耗低。
4. 灯具使用温度  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11 \text{ mm}$ 。

#### ■ 采用标准:

符合 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 等标准。

#### ■ The scope of application:

Suitable for illumination for possible accumulation of explosive gas mixtures, explosive gas environment II A, II B, II C, temperature class T1 ~ T4 of cabin or open spaces.

#### ■ Products feature:

1. The shell adopts good quality cast brass, lampshade adopts hard borax glass, with stainless steel guard.
2. The lamp body adopts seal structure with high waterproof and corrosion resistance.
3. LED light source, long working life, high light intensity, low energy consumption.
4. The lamps can work normally under the temperature  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .
5. Cable outside diameter is  $\varnothing 9 \sim \varnothing 11 \text{ mm}$ .

#### ■ Adopt standard:

Conform to 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 standard.

型号 Type	CFD3LED	CFD4CLED
防爆标志 Explosion proof mark	Ex d II CT4	
电压 Voltage	220V	
功率 Power	12W	
光源 Light source	LED	
防护等级 Protection class	IP66	
重量 Weight(Kg)	10.4	10.2

#### ■ 适用范围:

适用于可能产生或积聚爆炸性气体混合物质，爆炸性气体环境为 II A、II B、II C，温度组别为 T1 ~ T4 的舱室或露天场所作照明用。

#### ■ 产品特性:

1. 壳体采用优质铜材铸造成型，灯罩采用硬质硼砂玻璃，带不锈钢防护网罩。
2. 灯体采用的密封结构，具有良好的防水性能和防腐性能。
3. LED 光源，使用寿命长，光强度高，能耗低。
4. 灯具使用温度  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11 \text{ mm}$ 。

#### ■ 采用标准:

符合 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 等标准。



#### ■ The scope of application:

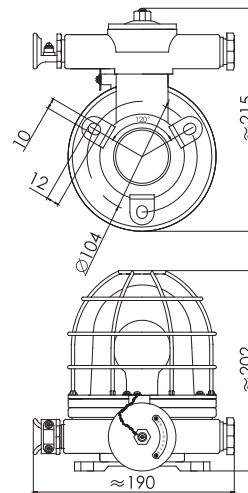
Suitable for illumination for possible accumulation of explosive gas mixtures, explosive gas environment II A, II B, II C, temperature class T1 ~ T4 of cabin or open spaces.

#### ■ Products feature:

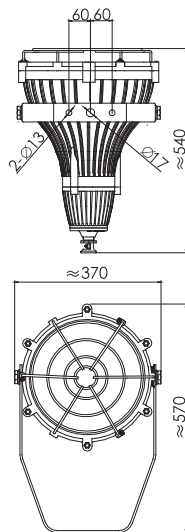
1. The shell adopts good quality cast brass, lampshade adopts hard borax glass, with stainless steel guard.
2. The lamp body adopts seal structure with high waterproof and corrosion resistance.
3. LED light source, long working life, high light intensity, low energy consumption.
4. The lamps can work normally under the temperature  $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .
5. Cable outside diameter is  $\varnothing 9 \sim \varnothing 11 \text{ mm}$ .

#### ■ Adopt standard:

Conform to 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 standard.



型号 Type	CFD5LED
防爆标志 Explosion proof mark	Ex d II CT4
电压 Voltage	220V
功率 Power	12W
光源 Light source	LED
防护等级 Protection class	IP56
重量 Weight(Kg)	7.0



#### ■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境为 II C, 温度组别为 T1 ~ T2、T1 ~ T3、T1 ~ T4 的危险区域 1 区、2 区作照明或远距离照明用。

#### ■ 产品特性:

1. 壳体采用优质铝材铸造成型, 灯罩采用硬质硼砂玻璃, 带不锈钢防护网罩。
2. LED 光源, 使用寿命长, 光强高, 能耗低。
3. 灯具使用环境温度  $T_a \leq 45^\circ\text{C}$ 。
4. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

#### ■ 采用标准:

符合 3836.1; GB12045; EN50014; EN50018; EN60079; GB17743; GB19510.1; GB19510.14 等标准。

#### ■ The scope of application:

Applied to illumination for ship, oil exploit platform, chemical and explosive gas place IIC, temperature class T1 ~ T2, T1 ~ T3, T1 ~ T4 dangerous places zone 1, zone 2.

#### ■ Products feature:

1. The shell adopts good quality cast aluminum, lampshade adopts hard borax glass, with stainless steel guard.
2. LED light source, long working life, high light intensity, low energy consumption.
3. Ambient temperature  $T_a \leq 45^\circ\text{C}$ .
4. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

#### ■ Adopt standard:

Conform to 3836.1; GB12045; EN50014; EN50018; EN60079; GB17743; GB19510.1; GB19510.14 standard.

型号 Type	CFT1LED
防爆标志 Explosion proof mark	Ex d II CT4
光源 Light source	LED
功率 Power	50W
电压 Voltage	220/50Hz 220/60Hz
防护等级 Protection class	IP56
重量 Weight(Kg)	17.1



■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境为 II B, 温度组别为 T1 ~ T2、T1 ~ T3 的危险区域 1 区、2 区作照明或远距离照明用。

■ 产品特性:

1. 壳体采用优质铝材铸造成型, 灯罩采用硬质硼砂玻璃。
2. LED 光源, 使用寿命长, 光强度高, 能耗低。
3. 灯具使用环境温度 Ta 45℃。
4. 电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准:

符合 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 等标准。

■ The scope of application:

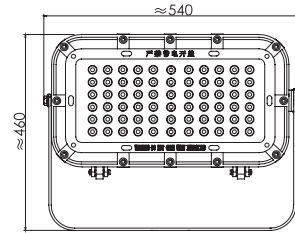
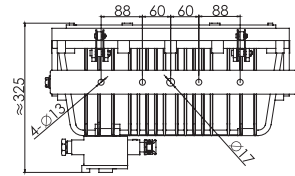
Applied to illumination for ship, oil exploit platform, chemical and explosive gas place II B, temperature class T1 ~ T2, T1 ~ T3 dangerous places zone 1, zone 2.

■ Products feature:

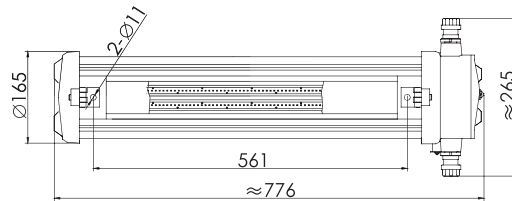
1. The shell adopts good quality cast aluminum, lampshade adopts hard borax glass.
2. LED light source, long working life, high light intensity, low energy consumption.
3. Ambient temperature Ta 45 °C .
4. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard:

Conform to 3836.1;GB12045;EN50014;EN50018;EN60079;GB1743;GB19510.1;GB19510.14 standard.



型号 Type	CFT2LED
防爆标志 Explosion proof mark	Ex d II BT3 Gb
光源 Light source	LED
功率 Power	50W
电压 Voltage	220/50Hz 220/60Hz
防护等级 Protection class	IP56
重量 Weight(Kg)	28.0



#### ■ 适用范围：

适用于船舶、石油开采平台、化工及爆炸性气体环境中危险区域1区、2区，可燃性气体、蒸汽级别为II A、II B、II C级，温度组别为T1 ~ T6的危险场所作照明用。

#### ■ 产品特性：

- 1、壳体用优质铜材铸造成型，灯体采用的密封结构，具有良好的防水性能和防腐性能。
- 2、安装方式为吊挂式。
- 3、LED光源，使用寿命长，光强度高，能耗低。
- 4、电缆外径 $\varnothing 11 \sim \varnothing 12\text{mm}$ 。

#### ■ 采用标准：

符合 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 等标准。

#### ■ The scope of application:

Applied to illumination for ship, oil exploit platform, chemical and explosive gas place zone 1, zone 2, flammable gases, vapors level II A, II B, II C level, Temperature class T1 ~ T6 dangerous places.

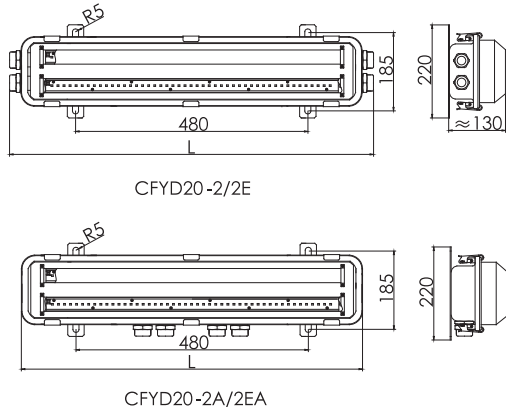
#### ■ Products feature:

1. The shell adopts high quality cast brass, the lamp body adopts seal structure with high waterproof and corrosion resistance.
2. Mounting type: hanging.
3. LED light source, long working life, high light intensity, low energy consumption.
4. Cable outside diameter is  $\varnothing 11 \sim \varnothing 12\text{mm}$ .

#### ■ Adopt standard:

Conform to 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 standard.

型号 Type	CFY20LED
防爆标志 Explosion proof mark	Ex d II CT6Gb
电压 Voltage	220V/50Hz 220V/60Hz
功率 Power	2X12W
防护等级 Protection class	IP56
光源 Light source	LED
重量 Weight(Kg)	12.5



#### ■ The scope of application:

Applied to illumination for ship, oil exploit platform, chemical and explosive gas place zone 1 ,zone 2. Temperature class T1 ~ T5 explosion dangerous places in the general distribution area.

#### ■ Products feature:

1. The shell adopts good quality steel by stamping molding, the surface of light is powder coated.
2. The lampshade is made of impact resistance, corrosion resistance, heat-resistant transparent amide acid ester.
3. Clips adopts integral structure, with good waterproof performance.
4. Mounting type: hanging or ceiling.
5. The whole light adopts flameproof type ,increased safety type of explosion-proof structure.
6. Cable outside diameter is  $\varnothing 11 \sim \varnothing 12\text{mm}$ .
7. Equipped with 24V / 1.5W LED emergency light source, as temporary lighting when power off. Emergency light will have a red mark on lampshade.

#### ■ Adopt standard:

Conform to 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 standard.

#### ■ 适用范围:

适用于船舶、石油开采平台、化工及爆炸性气体环境中危险区域 1 区、2 区，温度组别为 T1 ~ T5 的爆炸危险场所中一般配电区域作照明使用。

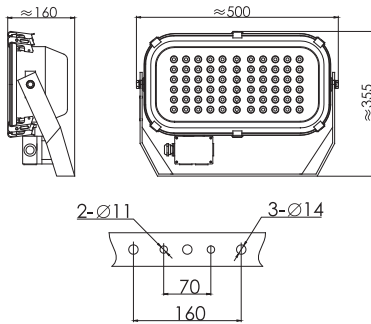
#### ■ 产品特性:

- 1、壳体采用优质钢材冲压成型，表面并作喷塑处理。
- 2、灯罩选用抗冲击、耐腐蚀、耐热透明的聚胺酸酯。
- 3、搭扣选用整体式结构，具有良好的防水性能。
- 4、灯具安装方式为吊挂式或吸顶式。
- 5、灯具整体采用隔爆、增安型的防爆结构。
- 6、电缆外径  $\varnothing 11 \sim \varnothing 12\text{mm}$ 。
- 7、灯具可配置 24V/1.5W 应急 LED 光源，作为断电时临时照明。配置应急光源的灯具，其灯罩上带有小红点标志。

#### ■ 采用标准:

符合 3836.1;GB12045;EN50014;EN50018;EN60079;GB17743;GB19510.1;GB19510.14 等标准。

型号 Type	CFYD20LED-2/2E	CFYD20LED-2A/2EA
L(mm)	≈ 742	690
防爆标志 Explosion proof mark	Ex Em b II T5Gb	
电压 Voltage	220V/50Hz 220V/60Hz	
功率 Power	2X12W	
防护等级 Protection class	IP56	
光源 Light source	LED	
重量 Weight(Kg)	5.6	



#### ■ 适用范围：

该灯具适用于各类船舶、船坞、港口码头、广场及隧道照明等。

#### ■ 产品特性：

1. 灯体采用优质不锈钢模压成型、抗腐蚀性强。
2. 灯罩采用钢化玻璃。
3. 灯具壳体可向上 90°，向下 45° 调节。
4. 采用 LED 光源，使用寿命长，光强度高，能耗低。
5. 电缆外径  $\varnothing 10 \sim \varnothing 14\text{mm}$ 。

#### ■ 采用标准：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

#### ■ The scope of application:

This product is designed to use for illumination in ship, dock, port and wharf, square and tunnel etc.

#### ■ Products feature:

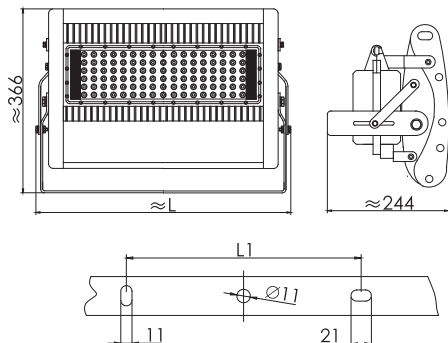
1. The body of light is made of good quality stainless steel by compression molding with excellent corrosion resistance.
2. The shade adopt toughened glass.
3. The body of light can be adjusted about 90 degree up and 45 degree down.
4. LED light source, long working life, high light intensity, low energy consumption.
5. Cable outside diameter is  $\varnothing 10 \sim \varnothing 14\text{mm}$ .

#### ■ Adopt standard :

1. Conform to international standard of IEC60598-1-2008.
2. Conform to Rules for the classification of sea-going steel ships..

电压 Voltage	光源 Illuminant	功率 POWER	重量 ( Kg) Weight	防护等级 Protection class
220V	LED	100W	7.5	IP56

# TG50LED-100/150/200/250 | LED 投光灯 LED FLOOD LIGHT



## ■ The scope of application:

This light can be used in large places of all kinds of ships, airports, industrial and mining which work environment temperature  $-40^{\circ}\text{C} \sim 45^{\circ}\text{C}$ .

## ■ Products feature:

- 1.The shell of light and heat sink are made of good quality stainless steel material by compression molding.
- 2.Adopt high photosynthetic efficiency of LED light source, with high brightness and good heat resistant performance, light failure is small, stable quality performance etc.
- 3.Unique design of the fin type radiator body in harmony with the electrical box, and effectively conduct heat diffusion, high cooling efficiency, thereby reducing the lamp body temperature, ensure the working life of the light source and power supply.
- 4.The surface of light adopts special treatment technology, beautiful and novel appearance, simple installation, convenient dis-assembly, wide application scope.
- 5.Cable outside diameter is  $\varnothing 4 \sim \varnothing 8\text{mm}$ .

## ■ Adopt standard :

- 1.Conform to international standard of IEC60598-1-2008.
- 2..Conform to Rules for the classification of sea-going steel ships.

## ■ 适用范围 :

该灯具适用于各类船舶、机场、工矿等工作环境温度  $-40^{\circ}\text{C} \sim 45^{\circ}\text{C}$  的大型场所使用。

## ■ 产品特性 :

1. 灯壳及散热片采用优质不锈钢材模压成型。
2. 采用高光效的 LED 光源, 具有超高亮度, 耐热性能好, 光衰小, 品质性能稳定等特点。
3. 独特的鳍片式散热体设计, 与电器盒完美结合, 有效将热量传导扩散, 散热效率高, 从而降低灯体内的温度, 保证了光源和电源的寿命。
- 4 采用特殊的表面处理工艺, 外观美观新颖, 安装简单, 拆卸方便, 适用范围广。
5. 电缆外径  $\varnothing 4 \sim \varnothing 8\text{mm}$ 。

## ■ 采用标准 :

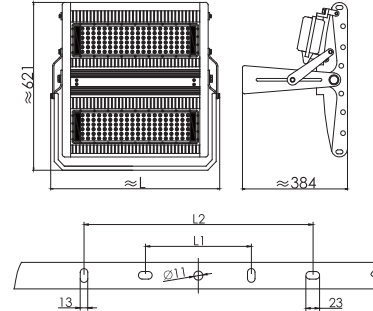
1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

型号 Type	TG50LED-100	TG50LED-150	TG50LED-200	TG50LED-250
L(mm)	$\approx 415$	$\approx 535$		$\approx 595$
L1(mm)	200		300	
电压 / 频率 Voltage/frequency	90 ~ 305V/AC/50 ~ 60Hz			
LED 功率 Power	100W	150W	200W	250W
系统功率	110W	170W	220W	280W
光通量 ( Lm ) Luminous flux	10000	15000	20000	25000
发光角度 ( $^{\circ}$ )	30X30/85X135			
相关色温 (K)Color Temperature	4000 ~ 7000			
显色指数 Color Rendering Index	70			
光源使用寿命 Working Life-span ( hrs )	> 50000			
重量 (Kg)Weight	7.4	9.0	9.3	10.3
防护等级 Protection class	IP65			



# TG50LED-300/350/400

## LED 投光灯 LED FLOOD LIGHT



### ■ 适用范围：

该灯具适用于各类船舶、机场、工矿等工作环境温度  
为 -40℃ ~ +45℃ 的大型场所使用。

### ■ 产品特性：

1. 灯壳及散热片采用优质不锈钢材模压成型。
2. 采用高光效的 LED 光源，具有超高亮度，耐热性能好，光衰小，品质性能稳定等特点。
3. 独特的鳍片式散热体设计，与电器盒完美结合，有效将热量传导扩散，散热效率高，从而降低灯体内的温度，保证了光源和电源的寿命。
4. 采用特殊的表面处理工艺，外观美观新颖，安装简单，拆卸方便，适用范围广。
5. 电缆外径  $\varnothing 5 \sim \varnothing 10\text{mm}$ 。

### ■ 采用标准：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

### ■ The scope of application:

This light can be used in large places of all kinds of ships, airports, industrial and mining which work environment temperature -40℃ ~ 45℃ .

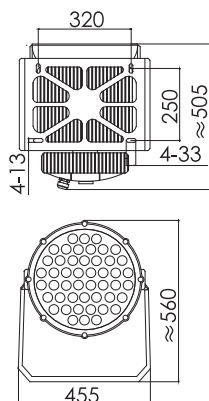
### ■ Products feature:

1. Lamp shell and heat sink are made of good quality stainless steel material by compression molding.
2. Adopt high photosynthetic efficiency of LED light source, with high brightness and good heat resistant performance ,light failure is small, stable quality performance etc.
3. Unique design of the fin type radiator body in harmony with the electrical box, and effectively conduct heat diffusion, high cooling efficiency, thereby reducing the lamp body temperature, ensure the working life of the light source and power supply.
4. The surface of light adopts special treatment technology, beautiful and novel appearance, simple installation, convenient dis-assembly, wide application scope.
5. Cable outside diameter is  $\varnothing 5 \sim \varnothing 10\text{mm}$ .

### ■ Adopt standard:

1. Conform to international standard of IEC60598-1-2008.
2. Conform to Rules for the classification of sea-going steel ships.

型号 Type	TG50LED-300	TG50LED-350	TG50LED-400
L(mm)	≈ 560		
L1(mm)	190		
L2(mm)	390		
电压 / 频率 Voltage/frequency	90 ~ 305V/AC/50 ~ 60Hz		
LED 功率 Power	300W	350W	400W
系统功率	330W	390W	440W
光通量 ( Lm ) Luminous flux	30000	35000	40000
发光角度 ( ° )	30X30/85X135		
相关色温 (K)Color Temperature	4000 ~ 7000		
显色指数 Color Rendering Index	70		
光源使用寿命 Working Life-span ( hrs )	> 50000		
重量 (Kg)Weight	18.9	19.3	20.8
防护等级 Protection class	IP65		



#### ■ The scope of application:

This light can be used in all kinds of ships, bridge, airports, Large buildings which work environment temperature  $-40^{\circ}\text{C} \sim 45^{\circ}\text{C}$ .

#### ■ Products feature:

1. Lamp shell and heat sink are made of good quality stainless steel material by molding.
2. Adopt high photosynthetic efficiency of LED light source, with high brightness and good heat resistant performance, light failure is small, stable quality performance etc.
3. Unique design of the fin type radiator body in harmony with the electrical box, and effectively conduct heat diffusion, high cooling efficiency, thereby reducing the lamp body temperature, ensure the working life of the light source and power supply.
4. Ultra narrow beam Angle (7.5 degrees) provide long distance light projection effect, high color rendering performance, more true to physical color rendering. A variety of color optional, which can meet different environmental needs.
5. Cable outside diameter is  $\varnothing 4 \sim \varnothing 8\text{mm}$ .

#### ■ Adopt standard:

1. Conform to international standard of IEC60598-1-2008.
2. Conform to Rules for the classification of sea-going steel ships.

#### ■ 适用范围:

该灯具适用于各类船舶、桥梁、机场、大型建筑物等工作环境温度为  $-40^{\circ}\text{C} \sim +45^{\circ}\text{C}$  的场所使用。

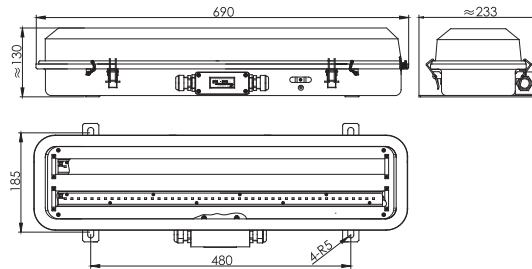
#### ■ 产品特性:

1. 灯壳及散热片采用优质不锈钢材模压成型。
2. 采用高光效的 LED 光源, 具有超高亮度, 耐热性能好, 光衰小, 品质性能稳定等特点。
3. 独特的鳍片式散热体设计, 与电器盒完美结合, 有效将热量传导扩散, 散热效率高, 从而降低灯体内的温度, 保证了光源和电源的寿命。
4. 超窄光束角 (7.5 度) 提供长距离灯光投射效果, 高显色性能, 对实物颜色的呈现更真切。各种光色可选, 能满足不同环境的需求。
5. 电缆外径  $\varnothing 4 \sim \varnothing 8\text{mm}$ 。

#### ■ 采用标准:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

型号 Type	TZ6-360LED
电压 / 频率 Voltage/frequency	90 ~ 305V/AC/50 ~ 60Hz
LED 功率 Power	360W
LED 发光效率 Led Luminous Efficiency	120~130lm/W
LED 灯具初始光通量 ( Lm)Led Initial Flux	26400
灯具效率 lamp 's Efficiency	> 85%
照度均匀度 Illuminance Uniformity	> 0.8
相关色温 Color Temperature	4000K-7000K
显色指数 Color Rendering Index	Ra=70
配光曲线 Light Distribution	对称式 / 圆形光斑 Symmetric/Circular spot of light
配光方式 Light Design	LED+ 透镜 Lens
LED 结点温升 Junction Temperature	$\leq 60^{\circ}\text{C}$ (@Ta=30 $^{\circ}\text{C}$ )
光源使用寿命 Working Life-span	> 50000h
重量 (Kg)Weight	30.5
防护等级 Protection class	IP65



### ■ 适用范围：

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用。

### ■ 产品特性：

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外均装有带“⊕”的接线桥架。
4. 采用 LED 光源，使用寿命长，光强度高，能耗低。
5. 灯具可配置 24V/1.5W 应急 LED 光源，作为断电时临时照明。配置应急光源的灯具，其灯罩上带有小红点标志。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。

### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc).

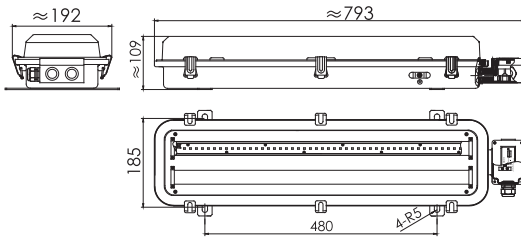
### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant poly carbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "⊕" connection bridge.
4. Adopt LED light source with long working life, high intensity, low energy consumption.
5. Equipped with 24V / 1.5W LED emergency light source, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
6. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

### ■ Adopt standard and products certification:

1. Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
2. Conform to Rules for the classification of sea-going steel ships.
3. Approved by type approval of China Classification Society (CCS).

型号 Type	ZYC23LED
功率 power	2X12W
重量 (Kg) Weight	4.8
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ
防护等级 Protection class	IP44
光源 Light source	LED



#### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc).

#### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant polycarbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps is equipped with "⊕" connection bridge.
4. Adopt LED light source with long working life, high intensity, low energy consumption.
5. Equipped with 24V / 1.5W LED emergency light source, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
6. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12$  mm.

#### ■ Adopt standard and products certification:

1. Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
2. Conform to Rules for the classification of sea-going steel ships.
3. Approved by type approval of China Classification Society (CCS).

#### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用。

#### ■ 产品特性:

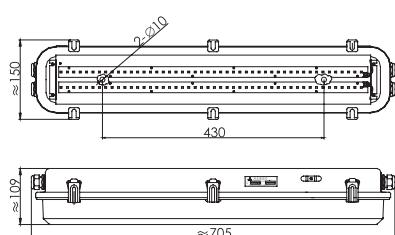
1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外均装有带“⊕”的接线桥架。
4. 采用 LED 光源，使用寿命长，光强度高，能耗低。
5. 灯具可配置 24V/1.5W 应急 LED 光源，作为断电时临时照明。配置应急光源的灯具，其灯罩上带有小红点标志。
6. 电缆外径  $\varnothing 10 \sim \varnothing 12$  mm。

#### ■ 采用标准及产品认证:

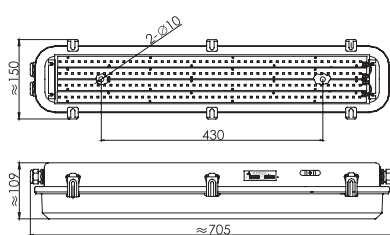
1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。

型号 Type	ZYC27LED
功率 power	2X12W
重量 ( Kg ) Weight	4.5
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ
防护等级 Protection class	IP44
光源 Light source	LED

# ZYC28LED-2/4 | LED 舱顶灯 LED PENDANT LIGHT



ZYC28LED-2



ZYC28LED-4

### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用。

### ■ 产品特性:

1. 灯壳采用优质冷轧板拉伸成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用透明抗冲击聚碳酸酯注塑成型，灯罩密封圈采用发泡硅橡胶，密封性能良好。
3. 为保证用电安全，灯具内外均装有带“⊕”的接线桥架。
4. 采用 LED 光源，使用寿命长，光强度高，能耗低。
5. 电缆外径  $\varnothing 10 \sim \varnothing 12$  mm。

### ■ 采用标准及产品认证:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 形式认可。

### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water splattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc).

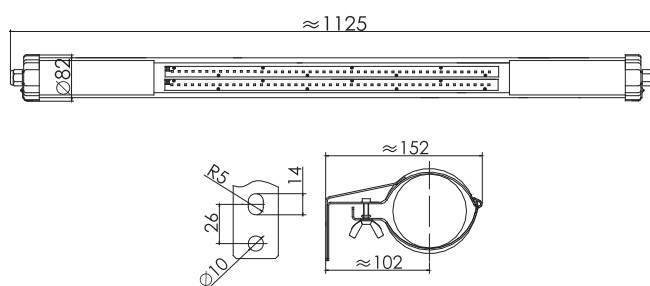
### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. The lampshade is made of transparent impact resistant polycarbonate plastic by injection forming. Lampshade seal-ring use foamed silicone rubber, with good sealed performance.
3. In order to ensure the safety of electricity, both inside and outside of lamps are equipped with "⊕" connection bridge.
4. Adopt LED light source with long working life, high intensity, low energy consumption.
5. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12$  mm.

### ■ Adopt standard and products certification:

1. Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
2. Conform to Rules for the classification of sea-going steel ships.
3. Approved by type approval of China Classification Society (CCS).

型号 Type	ZYC28LED-2	ZYC28LED-4
功率 power	2X9.6W	4X9.6W
重量 (Kg) Weight	4.5	4.7
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ	
防护等级 Protection class	IP67	
光源 Light source	LED	



### ■ The scope of application:

This series of lights fit for illumination for the places of ships with water dripping, water spattering, water coagulating (such as weather place, such as oven cabin, dry cabin, tunnel, pipeline and weather deck etc).

### ■ Products feature:

1. Compact size, elegant appearance.
2. The lights adopt sealing structure with high waterproof ability.
3. Adopt LED light source with long working life, high intensity, low energy consumption.
4. Installation size is adjustable, convenient installation.
5. Cable outside diameter is  $\varnothing 9 \sim \varnothing 11$  mm.

### ■ Adopt standard:

1. Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
2. Conform to Rules for the classification of sea-going steel ships.

### ■ 适用范围:

该灯具适用于各类船舶有滴水、溅水和凝水（如露天甲板、机炉舱、干货舱、轴隧、管弄、外走道）等场所照明之用。

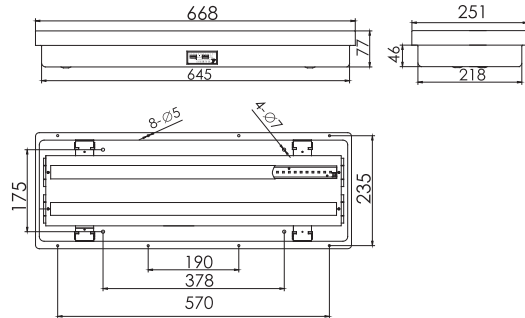
### ■ 产品特性:

1. 体积紧凑，外观精美。
2. 灯具采用的密封结构，具有高防水能力。
3. 采用 LED 光源，使用寿命长，光强度高，能耗低。
4. 安装尺寸可调节，安装简便。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11$  mm。

### ■ 采用标准:

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

型号 Type	ZYC29LED
功率 power	2X12W
重量 ( Kg ) Weight	2.8
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ
防护等级 Protection class	IP68
光源 Light source	LED



#### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

#### ■ 产品特性：

1. 底壳采用优质冷轧板冲压成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯注塑成型，光线柔和。
3. 采用 LED 光源，使用寿命长，光强度高，能耗低。
4. 灯具可配置 24V/1.5W 应急 LED 光源，作为断电时临时照明。配置应急光源的灯具，其灯罩上带有小红点标志。
5. 灯罩与壳体用翻板弹簧固定，结构牢固。
6. 灯具安装方式为嵌入式，既可固定在舱顶上，也可固定在横梁上。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合国际 IEC60598-1-2008 标准。
3. 通过中国船级社 (CCS) 型式认可。

#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, rest room, dining room, cab, telegraph room and within the corridors and other places.

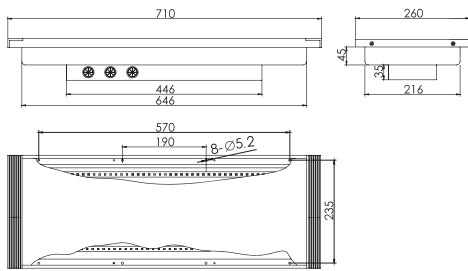
#### ■ Products feature:

1. The shell adopts good quality cold-rolled plate by mold pressing, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white poly carbonate by injection molding with softness rays.
3. Adopt LED light source with long working life, high intensity, low energy consumption.
4. Equipped with 24V / 1.5W LED emergency light source, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. The lampshade and the shell are fixed with turn plate spring, with firm structure.
6. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
7. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to Rules for the classification of sea-going steel ships.
2. Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
3. Approved by type approval of China Classification Society (CCS).

型号 Type	ZYP20-2/2E LED	ZYP20-4/4E LED
功率 Power	2X12W	4X12W
重量 ( Kg ) Weight	4.0	4.1
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ	
防护等级 Protection class	IP44	
光源 Light source	LED	



#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels , such as living cabin crew and passengers, lounges, dinning room, cab, telegraph room and within the corridors and other places .

#### ■ Products feature:

- 1.The shell adopts good quality cold-rolled plate by mold pressing ,surface is powder coated after anti-acid white.
- 2.The lampshade frame adopts aluminum alloy material,attractive appearance.
- 3.Adopt LED light source with long working life, high intensity, low energy consumption.
- 4.Equipped with 24V / 1.5W LED emergency light source, as temporary lighting when power off. With emergency lamp holder lights,on the lampshade with a red remark.
- 5.Mounting type: recessed type ,fixed on the top of the tank ,also can be fixed to the beam.
- 6.Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

- 1.Conform to Rules for the classification of sea-going steel ships.
- 2.Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
- 3.Approved by type approval of China Classification Society(CCS).

#### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

#### ■ 产品特性：

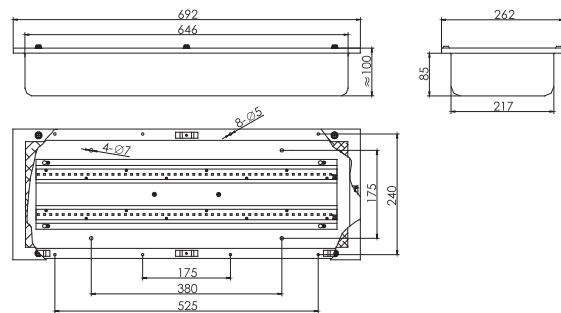
1. 底壳采用优质冷轧板冲压成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩框架采用铝合金材料，外观精美。
3. 采用 LED 光源，使用寿命长，光强度高，能耗低。
4. 灯具可配置 24V/1.5W 应急 LED 光源，作为断电时临时照明。配置应急光源的灯具，其灯罩上带有小红点标志。
5. 灯具安装方式为嵌入式，也可固定在横梁上。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合国际 IEC60598-1-2008 标准。
3. 通过中国船级社 (CCS) 型式认可。

型号 Type	ZYP23LED
功率 power	2X12W
重量 ( Kg ) Weight	5.3
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ
防护等级 Protection class	IP44
光源 Light source	LED





#### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

#### ■ 产品特点：

1. 灯壳采用优质冷轧板焊接成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯，不变色，韧性好，光线柔和及透光性好。
3. 采用 LED 光源，使用寿命长，光强高，能耗低。
4. 灯具可配置 24V/1.5W 应急 LED 光源，作为断电时临时照明。配置应急光源的灯具，其灯罩上带有小红点标志。
5. 灯具安装方式为嵌入式，既可固定在舱顶上，也可固定在横梁上。
6. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。

#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin crew and passengers, rest room, dining room, cab, telegraph room and within the corridors and other places.

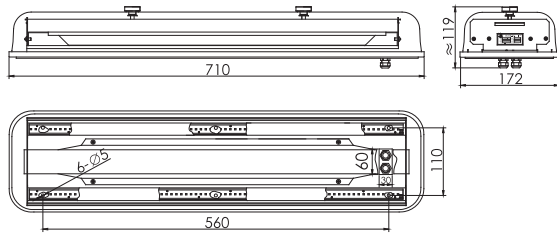
#### ■ Products feature:

1. The shell adopts high-quality cold-rolled plate welded, surface is powder coated after anti-acid white.
2. Lampshade adopts milky white polycarbonate, non dis-coloring, good toughness, softness rays and good transparency.
3. Adopt LED light source with long working life, high intensity, low energy consumption.
4. Equipped with 24V / 1.5W LED emergency light source, as temporary lighting when power off. With emergency lamp holder lights, on the lampshade with a red remark.
5. Mounting type: recessed type, fixed on the top of the tank, also can be fixed to the beam.
6. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

1. Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
2. Conform to Rules for the classification of sea-going steel ships.
3. Approved by China Classification Society (CCS).

型号 Type	ZYP25LED
功率 power	2X12W
重量 ( Kg ) Weight	5.0
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ
防护等级 Protection class	IP44
光源 Light source	LED



#### ■ The scope of application:

The lamp is suitable for illumination for dry compartments of all types of vessels, such as living cabin of crew and passengers, rest room, dining room, cab, telegraph room and within the corridors and other places.

#### ■ Products feature:

- 1.The shell adopts good quality stainless steel plate,increases the strength of the light.
- 2.Lampshade adopts transparent poly carbonate by injection molding,with high light intensity.
- 3.The lampshade and light body are fixed by screws,attractive appearance, easy disassembly, easy to maintain.
- 4.Adopt LED light source with long working life, high intensity, low energy consumption.
- 5.Equipped with 24V / 1.5W LED emergency light source, as temporary lighting when power off. With emergency lamp holder lights,on the lampshade with a red remark.
- 6.Mounting type: fixed on the top of the tank ,also can be fixed to the beam.
- 7.Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard and products certification:

- 1.Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
- 2.Conform to Rules for the classification of sea-going steel ships.
- 3.Approved by China Classification Society(CCS).

#### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明之用。

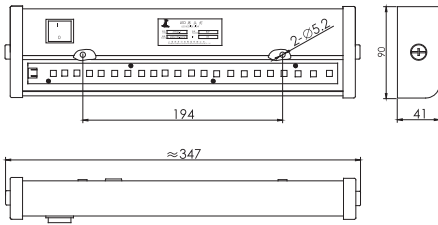
#### ■ 产品特性：

1. 底板采用优质不锈钢板，增加了灯具的强度。
2. 灯罩采用透明聚碳酸酯注塑成型，光强度高。
3. 灯罩与灯体采用螺栓固定，外观精美，拆卸方便，易于维护。
4. 采用 LED 光源，使用寿命长，光强度高，能耗低。
5. 灯具可配置 24V/1.5W 应急 LED 光源，作为断电时临时照明。配置应急光源的灯具，其灯罩上带有小红点标志。
6. 灯具安装方式：既可固定在舱顶上，也可固定在横梁上。
7. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准及产品认证：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。
3. 通过中国船级社 (CCS) 型式认可。

型号 Type	ZYP29LED
功率 power	2X12W
重量 ( Kg ) Weight	4.0
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ
防护等级 Protection class	IP44
光源 Light source	LED



■ 适用范围：

该灯具适用于船舶舱室内居住场所作床头照明。

■ 产品特性：

1. 底壳采用优质冷轧板冲压成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
2. 灯罩采用乳白色聚碳酸酯注塑成型，光线柔和。
3. 采用 LED 光源，使用寿命长，光强度高，能耗低。
4. 灯罩与底壳通过 ABS 端板和螺钉固定，外观精美，拆卸方便，易于维护。
5. 电缆外径  $\varnothing 6 \sim \varnothing 8\text{mm}$ 。

■ 采用标准及产品认证：

1. 符合《钢质海船入级规范》。
2. 符合国际 IEC60598-1-2008 标准。
3. 通过中国船级社 (CCS) 型式认可。

■ The scope of application

This product is designed as bedside lamp to use at the living room in ship cabin.

■ Products feature:

- 1.The shell of light is made of good quality cold rolled steel sheets by compression molding, which surface was powder coated and processed by white acid epoxy polyester powder.
- 2.The shade is made of milky poly carbonate by injection molding,with light softness.
- 3.LED light source,long working life, high light intensity, low energy consumption.
- 4.The shade and shell are fixed by ABS end plate and screws, elegant appearance, convenient dis-assembly, easy to maintain.
- 5.The diameter of cable is  $\varnothing 6 \sim \varnothing 8\text{mm}$ .

■ Adopt standard and products certification:

- 1.Conform to Rules for the classification of sea-going steel ships.
- 2.Conform to STANDARD of IEC60598-1-2008.
- 3.Approved by CHINA CLASSIFICATION SOCIETY(CCS).

型号 Type	ZYT08LED-1
功率 power	1X5W
重量 (Kg) Weight	0.92
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ
防护等级 Protection class	IP34
光源 Light source	LED

■ 适用范围：

该灯具适用于各类船舶盥洗室和浴室作镜前照明。

■ 产品特性：

- 1、灯壳采用优质冷轧板冲压成型。
- 2、灯罩采用乳白色聚碳酸酯。
- 3、灯具带开关装置。
- 4、采用 LED 光源，使用寿命长，光强度高，能耗低
- 5、电缆外径  $\varnothing 6 \sim \varnothing 8\text{mm}$ 。

■ 采用标准：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。



■ The scope of application:

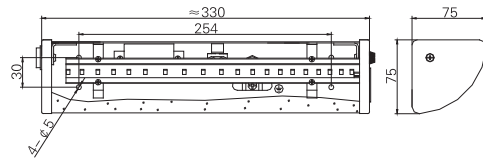
The products are designed as mirror light to use in the washing room and bathroom in ship.

■ Products feature:

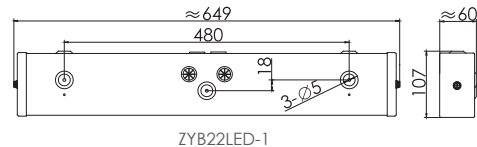
- 1.The shell of light is made of good quality cold rolled steel sheets by compression molding.
- 2.The shade of light adopts the milky poly carbonate material.
- 3.The light with switch device.
- 4.Adopt LED light source with long working life, high intensity, low energy consumption.
- 5.Cable outside diameter is  $\varnothing 6 \sim \varnothing 8\text{mm}$ .

■ Adopt standard:

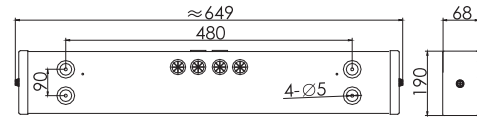
- 1.Conform to standard of IEC60598-1-2008;
- 2.Conform to Rules for the classification of sea-going steel ships.



型号 Type	ZYB17LED-A
重量 (Kg)Weight	1.0
功率 Power	5W
电压 / 频率 Voltage/frequency	220V/60HZ 220V/50HZ
防护等级 Protection class	IP22
光源 Light source	LED



ZYB22LED-1



ZYB22LED-2

#### ■ 适用范围：

该灯具适用于各类船舶干燥舱室，如船员和旅客的居住舱、休息室、餐厅、驾驶室、报务室和内走道等场所照明和应急照明。

#### ■ 产品特性：

1. 灯具安装方式为墙壁式安装，结构紧凑，外观精致。
2. 灯壳采用优质冷轧板压制成型，表面经过白色防酸环氧聚酯粉末喷涂处理。
3. 灯罩采用乳白色聚碳酸酯注塑成型，不变色，韧性好，光线柔和及透光性好。
4. 采用 LED 光源，使用寿命长，光强度高，能耗低。
5. 电缆外径  $\varnothing 11 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准：

1. 符合国际 IEC60598-1-2008 标准。
2. 符合《钢质海船入级规范》。

#### ■ The scope of application:

The lamp is suitable for illumination at dry compartments of all types of vessels, such as living cabin of crew and passengers, rest room, dining room, cab, telegraph room and within the corridors and other places.

#### ■ Products feature:

1. Mounting type: wall type installation, compact structure, delicate appearance.
2. The shell adopts good quality cold-rolled plate welded, surface is powder coated after anti-acid white.
3. Lampshade adopts milky white poly carbonate by injection molding, non dis-coloring, good toughness, softness rays and good transparency.
4. Adopt LED light source, long working life, high intensity, low energy consumption.
5. Cable outside diameter is  $\varnothing 11 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard :

1. Conform to IEC60598-1-2008 INTERNATIONAL STANDARD.
2. Conform to Rules for the classification of sea-going steel ships.

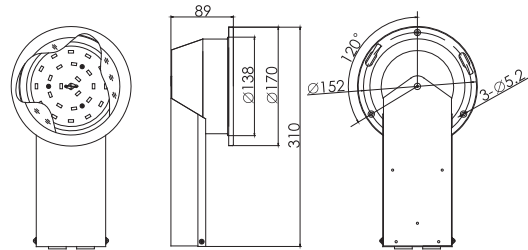
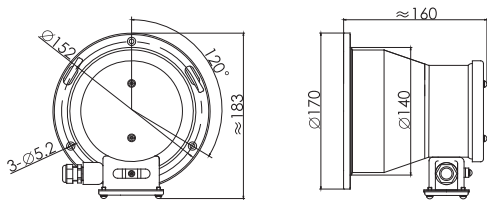
型号 Type	ZYB22LED-1	ZYB22LED-2
功率 power	1X9W	2X9W
重量 (Kg) Weight	2.5	3.0
电压 / 频率 Voltage/frequency	220V/50HZ ~ 60HZ	
防护等级 Protection class	IP34	
光源 Light source	LED	



JXQLED-2



JXQLED-1



■ The scope of application:

This products is suitable for decoration illumination for cabin or all kinds of ships.

■ Products feature:

The light body is made of cold-rolled steel sheets by compression molding with beauty designed,light softness and recessed mounting. LED light source,long working life, high luminous intensity and lower power consumption.Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

■ Adopt standard :

Conform to STANDARD of GB7000.201, GB7000.1 and Conform to Rules for the classification of sea-going steel ships.

■ 适用范围：

该灯具适用于各类船舶的舱室作装饰照明。

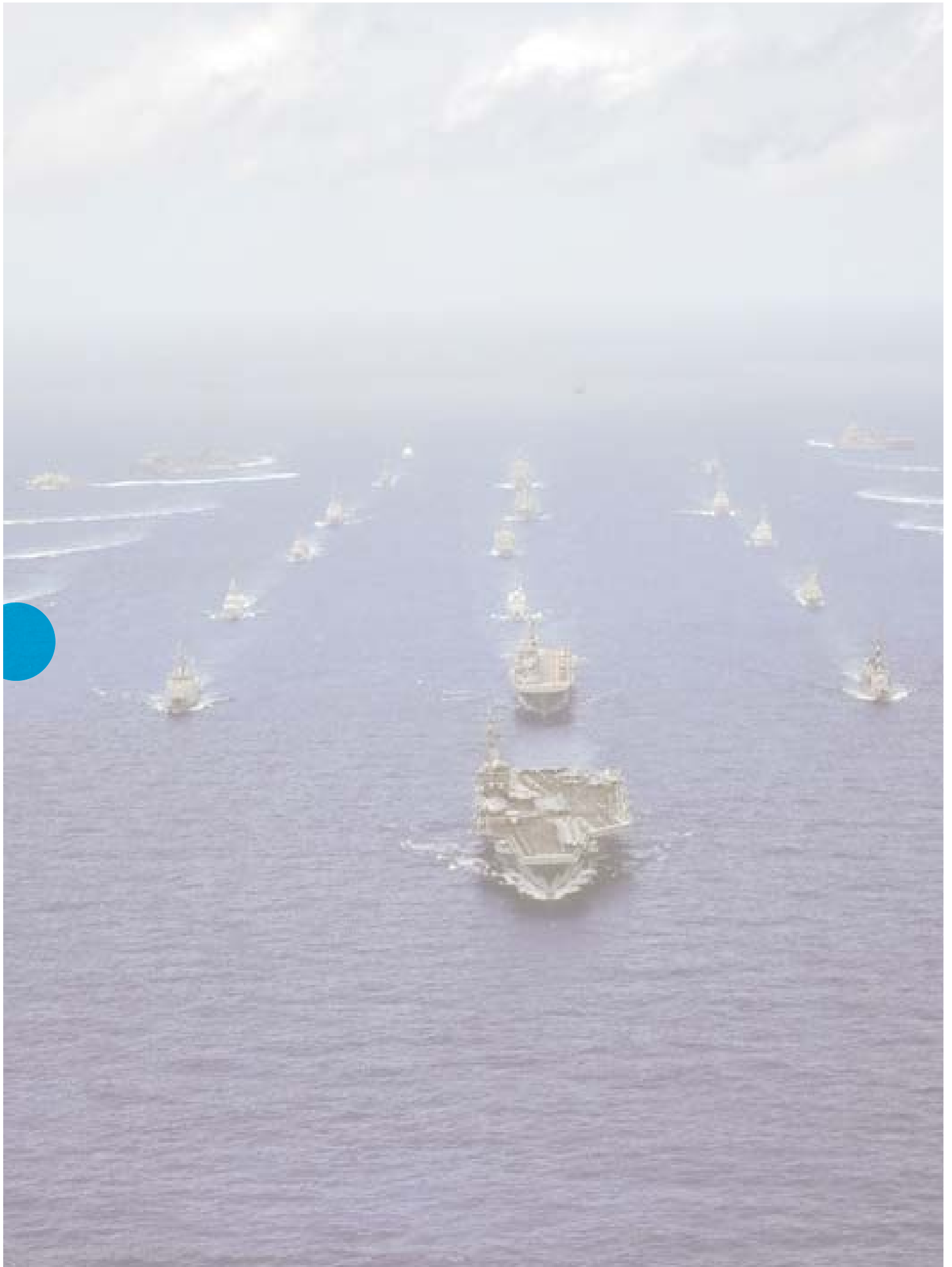
■ 产品特性：

灯体采用优质冷轧板模压成型。造型美观，光线柔和，嵌入式安装。LED光源，使用寿命长，光强高，能耗低。电缆外径： $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准：

符合 GB7000.201 标准；符合 GB7000.1 标准；符合《钢质海船入级规范》。

型号 Type	JXQLED-1	JXQLED-2
电压 Voltage	220V	
功率 Power	5 ~ 10W	7W
光源 Light source	LED	
防护等级 Protection class	IP20	
重量 Weight(Kg)	1.0	0.8



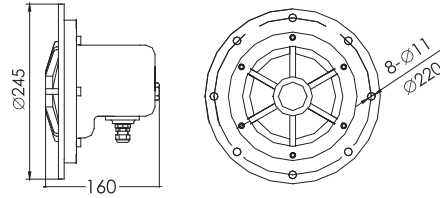
# 直升机助降灯

Helicopter landing light



## ZJD1 平台边界灯 / JD2 前极限位置灯

### ZJD1 PLATFORM EDGE LIGHT / ZJD2 NOSE LIMITED LINE LIGHT



#### ■ 适用范围：

ZJD1 为平台边界灯，安装在起降平台边界的标志线上，作为直升机起降平台着舰区边界灯光标志。

ZJD2 为前极限位置灯，安装在起降平台前极限位置上，作为直升机起降前极限位置的灯光标志。

#### ■ 产品特性：

1. 外壳采用优质不锈钢，用模具铸造成型。
2. 灯具采用镶嵌式安装，法兰与舰体电焊连接。
3. 灯罩进行钢化处理，能承受 200℃ 的温度骤变。
4. 可分别采用 LED 和卤钨灯两种光源，灯泡使用寿命长，光强度高，能耗低。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

#### ■ 采用标准：

1. GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
2. 《钢质海船入级规范》。
3. GB/T 3027-2012 《船用照明灯通用技术条件》。
4. CAP437-2013 《舰载直升机甲板平台安全规范》。

#### ■ The scope of application:

ZJD1 is boundary light of platform, fixed on the mark line of lift support boundary as light and mark for the helicopter rising and landing.

ZJD2 is limit position lighting on the front, fixed on the limit position on the front of lift support as light and mark for helicopter rising and landing.

#### ■ Products feature:

1. The shell adopts good quality stainless steel by pressing mold.
2. The lighting adopts mosaic type to fix. The vessel joint with flange by electric welding.
3. The lampshade is toughened and it can be capable of withstanding abrupt temperature changes about 200℃.
4. These two types light can use LED and Tungsten halogen lamp as electric light source respectively, the bulb have the features of long lifetime, high light intensity and lower energy consumption.
5. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{mm}$ .

#### ■ Adopt standard a:

1. Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
4. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.

名称 Name	型号 Type	可见距离 Visibility	视角 Level arc	灯座 Lamp holder	光源 / 电压 / 功率 Light source/Voltage/Power	防护等级 Protection class	颜色 Color	重量 Weight
平台边界灯 Platform edge light	ZJD1	$\geq 3\text{n.m}$	半球式发光 Half globe type light	B15d	220V/50HZ/60W 卤钨灯泡 Tungsten halogen bulb	IP56	白 White	7.5Kg
				—	220V/50HZ/10W/LED			
前极限位置灯 Nose limited line light	ZJD2	$\geq 1.5\text{n.m}$	半球式发光 Half globe type light	B15d	220V/50HZ/60W 卤钨灯泡 Tungsten halogen bulb	IP56	红 Red	7.5Kg
				—	220V/50HZ/5W/LED			

## ZJD3 机库障碍灯 / ZJD5 桅杆障碍灯

### ZJD3 HANGAR OBSTACLE LAMP / ZJD5MAST OBSTRUCTION LIGHT

#### ■ 适用范围：

该灯具安装在主桅杆上，在夜间或能见度低的情况下，为直升机驾驶员指明桅杆高度。

#### ■ 产品特性：

1. 外壳采用优质不锈钢，用模具铸造成型。
2. 灯罩采用 PC 材料，具备良好的透光性能。
3. 配置专用的船舶信号灯泡。
4. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

#### ■ 采用标准：

1. GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
2. 《钢质海船入级规范》。
3. GB/T 3027-2012 《船用照明灯通用技术条件》。
4. CAP437-2013 《船载直升机甲板平台安全规范》。



#### ■ The scope of application:

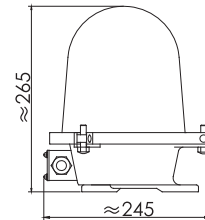
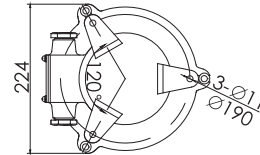
The light fix on the top of main mast for helicopter pilots to indicate the height of mast at night or lower visibility conditions.

#### ■ Products feature:

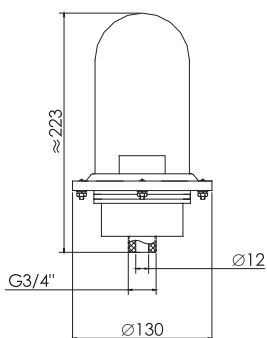
1. The shell adopts good quality stainless steel by pressing mold.
2. The glass lampshade is made of PC material and has the feature of good transmission of light.
3. With signal bulb for marine special use.
4. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{ mm}$ .

#### ■ Adopt standard:

1. Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
4. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.



产品名称 Name	机库障碍灯 Hangar Obstacle light	桅杆障碍灯 Mast Obstruction light
型号 Type	ZJD3	ZJD5
可见距离 Visibility	$\geq 1.5\text{n.m}$	$\geq 3\text{n.m}$
视角 Visible arc	360°	
颜色 Color	红 Red 明 Transparent	红 Red
电压 Voltage	220V/50HZ	
功率 Power	100W	
灯座 Lamp holder	E27	
光源 Light source	白炽灯 Incandescent lamp	
防护等级 Protection class	IP56	
重量 Weight	7kg	



■ 适用范围：

该灯具安装在舰船的左面，三个灯排成直线，平行于舰船的中线面，为直升机驾驶员在悬停加油时提供正确的航向和高度基准。

■ 产品特性：

1. 外壳采用优质不锈钢，用模具铸造成型。
2. 灯罩采用 PC 材料，具备良好的透光性能。
3. 配置专用的船舶信号灯泡。
4. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

■ 采用标准：

1. GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
2. 《钢质海船入级规范》。
3. GB/T 3027-2012 《船用照明灯通用技术条件》。
4. CAP437-2013 《船载直升机甲板平台安全规范》。

■ The scope of application:

Fixed on the left of ship vessel, three lights are on a line, and parallel to the middle line of ship vessel for the driver of helicopter to know the correct direction and height reference when hovering to fuel up .

■ Products feature:

1. The shell adopts good quality stainless steel by pressing mold.
2. The glass lampshade is made of PC material and has the feature of good transmission of light.
3. With signal bulb for marine special use.
4. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11 \text{ mm}$ .

■ Adopt standard:

1. Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS .
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
4. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.

可见距离 Visibility	视角 Visible arc	颜色 Color	电压 Voltage	功率 Power	灯座 Lamp holder	光源 Light source	防护等级 Protection class	重量 Weight
$\geq 1.5\text{n.m}$	360°	红 Red	220V/50HZ	60W	E27	白炽灯 Incandescent lamp	IP56	1.6kg

#### ■ 适用范围：

该灯具安装在舰体最高处，在夜间或能见度低的情况下，为直升机驾驶员提供识别母舰的灯光信息。

#### ■ 产品特性：

1. 外壳采用优质不锈钢，用模具铸造成型。
2. 灯罩采用耐热玻璃，耐热温差不小于 60℃。(20℃~80℃)
3. 配置专用的船舶信号灯泡。
4. 电缆外径  $\varnothing 10 \sim \varnothing 13\text{mm}$ 。

#### ■ 采用标准：

1. GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
2. 《钢质海船入级规范》。
3. GB/T 3027-2012 《船用照明灯通用技术条件》。
4. CAP437-2013 《舰载直升机甲板平台安全规范》。



#### ■ The scope of application:

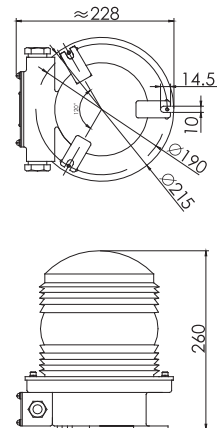
ZJD6 is suitable to fix on the highest point of ship for helicopter pilots to recognize the light of mother ship at night or low visibility conditions.

#### ■ Products feature:

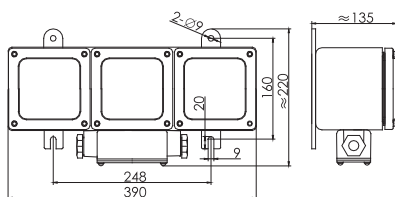
1. The shell adopts good quality stainless steel by pressing mold.
2. The lampshade adopts the heatproof glass and it can be capable of withstanding abrupt temperature changes not less than 60℃ (20℃~80℃).
3. With signal bulb for marine special use.
4. The cable outside diameter is  $\varnothing 10 \sim \varnothing 13\text{mm}$ .

#### ■ Adopt standard :

1. Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
4. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.



可见距离 Visibility	视角 Visible arc	颜色 Color	电压 Voltage	功率 Power	灯座 Lamp holder	光源 Light source	防护等级 Protection class	重量 Weight
$\geq 10\text{n.m}$	水平 Horizontal 360° 垂直 Vertical 10℃ ~ -5℃	明 Transparent	220V/50HZ	2X300W	G9.5	卤钨灯泡 Tungsten halogen bulb	IP56	7kg



■ 适用范围：

该灯具安装在机库内壁上，在机库内发出直升机行动指令。

■ 产品特性：

1. 外壳采用优质不锈钢和密封式结构，具有较强的防水能力。
2. 可分别采用 LED 和卤钨灯两种光源，灯泡使用寿命长，光强度高，能耗低。
3. 电缆外径  $\varnothing 13 \sim \varnothing 15\text{mm}$ 。

■ 采用标准：

1. GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
2. 《钢质海船入级规范》。
3. GB/T 3027-2012 《船用照明灯通用技术条件》。
4. CAP437-2013 《船载直升机甲板平台安全规范》。

■ The scope of application:

ZJD7 is designed to fix on the inside wall of hangar to issue action instructions for helicopter.

■ Products feature:

1. The shell is made of good quality stainless steel with hermetically-sealed structures, with the functions of strong waterproof.
2. Used LED and Tungsten halogen lamp as electric light source respectively, the bulb have the features of long lifetime, high light intensity and lower energy consumption.
3. The cable outside diameter is  $\varnothing 13 \sim \varnothing 15\text{ mm}$ .

■ Adopt standard :

1. Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS .
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
4. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.

型号 Type	ZJD7	
可见距离 Visibility	$\geq 1.5\text{n.m}$	
视角 Visible arc	半球式发光 Half globe type light	
颜色 Color	红 . 绿 . 黄 Red/Green/Yellow	
电压 Voltage	220V/50HZ	
灯座 Lamp holder	B15d	
光源及功率 Light source & power	卤钨灯泡 Tungsten halogen bulb	3X60W
	LED	3X5W
防护等级 Protection class	IP56	
重量 Weight	12.5kg	

#### ■ 适用范围：

该灯具安装在机库外后壁左侧，为直升机驾驶员发出能否起落的灯光指令。

#### ■ 产品特性：

1. 外壳采用优质不锈钢和密封式结构，具有较强的防水能力。
2. 可分别采用 LED 和卤钨灯两种光源，灯泡使用寿命长，光强度高，能耗低。
3. 进线采用电缆连接器连接。

#### ■ 采用标准：

1. GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
2. 《钢质海船入级规范》。
3. GB/T 3027-2012 《船用照明灯通用技术条件》。
4. CAP437-2013 《舰载直升机甲板平台安全规范》。

#### ■ The scope of application:

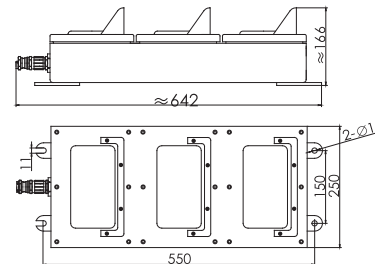
This light is suitable to fix on the outside left wall of hangar back to issue light instructions for helicopter if it can rise on land or not.

#### ■ Products feature:

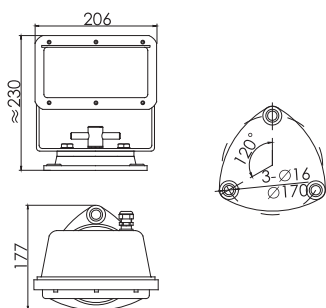
1. The shell is made of good quality stainless steel with hermetically-sealed structures, with the functions of strong waterproof.
2. Used LED and Tungsten halogen lamp as electric light source respectively, the bulb have the features of long lifetime, high light intensity and lower energy consumption.
3. Adopt cable connector to joint.

#### ■ Adopt standard :

1. Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
4. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.



型号 Type	ZJD8	
可见距离 Visibility	≥ 1.5n.m	
视角 Visible arc	半球式发光 Half globe type light	
颜色 Color	红 . 绿 . 黄 Red/Green/Yellow	
电压 Voltage	220V/50HZ	
灯座 Lamp holder	B15d	
光源及功率 Light source & power	卤钨灯泡 Tungsten halogen bulb	6X60W
	LED	6X5W
防护等级 Protection class	IP56	
重量 Weight	26kg	



#### ■ 适用范围：

该灯具安装在机库外后壁上，为机库外后壁提供照明。也可用于甲板平面照明。

#### ■ 产品特性：

1. 外壳采用优质不锈钢，用模具铸造成型。
2. 灯具水平和垂直方向均可转动，以调整照明角度。
3. 采用优质硅橡胶密封，具有良好的防水性能。
4. 灯罩玻璃进行钢化处理，能承受 250℃ 的温度骤变和具备良好的透光性能。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

#### ■ 采用标准：

1. GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
2. 《钢质海船入级规范》。
3. GB/T 3027-2012 《船用照明灯通用技术条件》。
4. CAP437-2013 《船载直升机甲板平台安全规范》。

#### ■ The scope of application:

ZJD9 is suitable to fix on the back wall at outside of hangar for illumination, it also can be a light for deck.

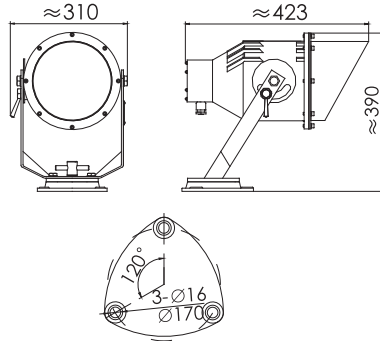
#### ■ Products feature:

1. The shell is made of good quality stainless steel by pressing mold.
2. The light body can be rotated in horizontally and vertically to adjust the angle of illumination.
3. Adopt high quality silicone rubber for sealing with good waterproof performance.
4. The lampshade glass is toughened, which can be bear the temperature sudden changes about 250 °C and with transmission of light.
5. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{mm}$ .

#### ■ Adopt standard:

1. Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS.
2. Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
3. Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
4. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.

可见距离 Visibility	视角 Visible arc	颜色 Color	电压 Voltage	功率 Power	灯座 Lamp holder	光源 Light source	防护等级 Protection class	重量 Weight
$\geq 1.5\text{n.m}$	水平 Horizontal $\pm 60^\circ$ 垂直 Vertical $\pm 60^\circ$	明 Transparent	220/50HZ	60W	B15d	卤钨灯泡 Tungsten halogen bulb	IP56	5.5kg



#### ■ The scope of application:

ZJD10 is suitable to fix on the left and right upside or the top of back wall at hangar with bilateral symmetry for illumination at the platform of rising and landing, to offer the pilots and ground crew to recognize all kinds of mark line and make the work go smoothly.

#### ■ Products feature:

- 1.The shell is made of good quality stainless steel.
- 2.The light body can be rotated through horizontally and vertically to adjust the angle of illumination.
- 3.Adopt high quality silicone rubber for sealing with good waterproof performance.
- 4.The lampshade glass is toughened, which can be bear the temperature sudden changes about 250 °C and with the feature of transmission of light.
- 5.The cable outside diameter is  $\varnothing 9 \sim \varnothing 11$  mm.

#### ■ Adopt standard:

- 1.Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS .
- 2.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.
- 3.Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.
- 4.Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.

#### ■ 适用范围：

该灯具安装在机库门两侧上方或机库后壁顶部，左右对称布置，为起降平台提供照明，使直升机驾驶员和地勤人员能清除识别各种标志线，顺利地进行各种起降平台作业。

#### ■ 产品特性：

1. 外壳采用优质不锈钢。
2. 灯具水平和垂直方向均可转动，以调整照明角度。
3. 采用优质硅橡胶密封，具有良好的防水性能。
4. 灯罩玻璃进行钢化处理，能承受 250℃ 的温度骤变和具备良好的透光性能。
5. 电缆外径  $\varnothing 9 \sim \varnothing 11$ mm 。

#### ■ 采用标准：

- 1.GJB534B-2009 标准《舰船直升机舰面系统通用要求》。
- 2.《钢质海船入级规范》。
- 3.GB/T 3027-2012《船用照明灯通用技术条件》。
- 4.CAP437-2013《舰载直升机甲板平台安全规范》。

型号 Type	ZJD10	
颜色 Color	明 Transparent	黄 Yellow
可见距离 Visibility	$\geq 15000$ cd	$\geq 10000$ cd
视角 Visible ar	水平旋转 Horizontal rotary arc $\pm 180^\circ$	
	垂直旋转 Vertical rotary arc $0^\circ \sim -60^\circ$	
电压 Voltage	220V/50HZ	
功率 Power	300W	
灯座 Lamp holder	G9.5	
光源 Light source	卤钨灯泡 Tungsten halogen bulb	
防护等级 Protection class	IP56	
重量 Weight	15.6kg	



## ZJD11 指挥灯棒 /ZJD12 风标灯

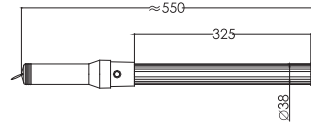
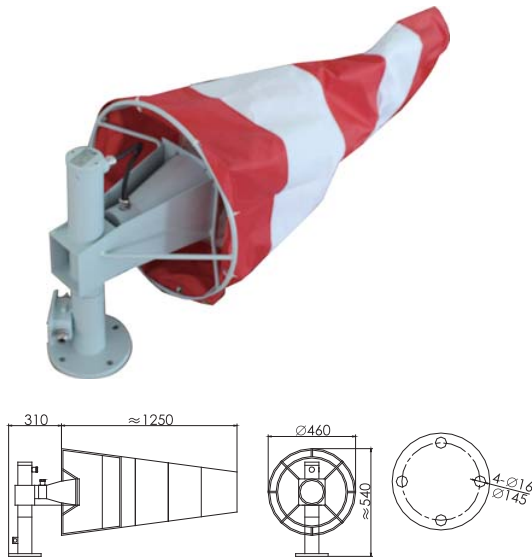
### ZJD11COMMANDING LIGHT ROD/ZJD12 WINDSOCK LIGHT

#### ■ 采用标准：

GJB534B-2009 标准《舰船直升机舰面系统通用要求》；  
GB/T 3027-2012《船用照明灯通用技术条件》；CAP437-  
2013《舰载直升机甲板平台安全规范》。

#### ■ Adopt standard:

Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS .Conform to GB/T3027-2012 STANDARD of MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS.Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.



#### ■ ZJD12 风标灯适用范围及产品特性：

该灯具安装在停机坪的最高点，顺着风向旋转，为直升机的起降提供风向指示。外壳采用优质不锈钢。风斗材料采用尼龙制作，牢固、耐用。光源采用紧凑型荧光灯管。

#### ■ ZJD11 指挥棒灯适用范围及产品特性：

该灯具由直升机引降员使用，指引直升机在夜间或能见度低的白天安全起飞和着陆。灯具为手持式：材料采用 PC，重量轻，抗碰撞性强；LED 光源使用寿命长，光强度高，能耗低。

#### ■ ZJD12 the scope of application of wind indicator and Products feature::

ZJD12 is suitable to fix on the highest point of parking apron, rotating down wind for offer wind vanes indicate to helicopter rising and landing.The shell adopts high quality stainless steel. The wind scoop is made of nylon material with the feature of strong and durability.The light source adopt fluorescent tube with compact type.

#### ■ ZJD11 the scope of application and Products feature:

ZJD11 is used by crew who guide the helicopter to rising and landing at nighttime or low visibility.The light is hand type.The light adopt PC material with the feature of light weight and damage resistance after dropping.The light source is LED with the feature of long lifetime, high light intensity and low energy consumption.

名称 Name	指挥灯棒 Commanding Light Rod		风标灯 Windsock light
型号 Type	ZJD11		ZJD12
可见距离 Visibility	≥ 200 米		—
视角 Visible arc	管状式发光 Tubular Illumination		水平自由旋转 Horizontal free rotation
颜色 Color	红 Red	绿 Green	红 Red / 白 White
电压 Voltage	DC2.4V	DC3.6V	220V/50HZ
功率 Power	0.1W		18W
灯座 Lamp holder	—		E27
光源 Light source	LED		荧光灯管 fluorescent lamp
防护等级 Protection class	IP56		
重量 Weight	0.6kg		18 kg

■ **适用范围及产品特性：**

该灯具安装在起降平台左、右边界线外，为边界线内整个甲板表面提供照明。外壳采用优质不锈钢；灯具水平和垂直方向均可转动，以调整照明角度；灯具采用优质硅胶密封，具有良好的防水性能。灯罩玻璃进行钢化处理，能承受 250℃ 的温度骤变和具备良好的透光性能。电缆外径  $\varnothing 9 \sim \varnothing 11\text{mm}$ 。

■ **采用标准：**

GJB534B-2009 标准《舰船直升机舰面系统通用要求》；《钢质海船入级规范》；GB/T 3027-2012《船用照明灯通用技术条件》；CAP437-2013《舰载直升机甲板平台安全规范》。

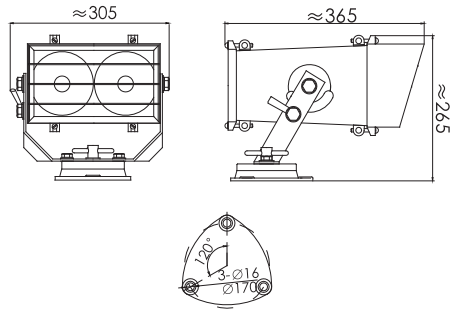


■ **The scope of application and Products feature:**

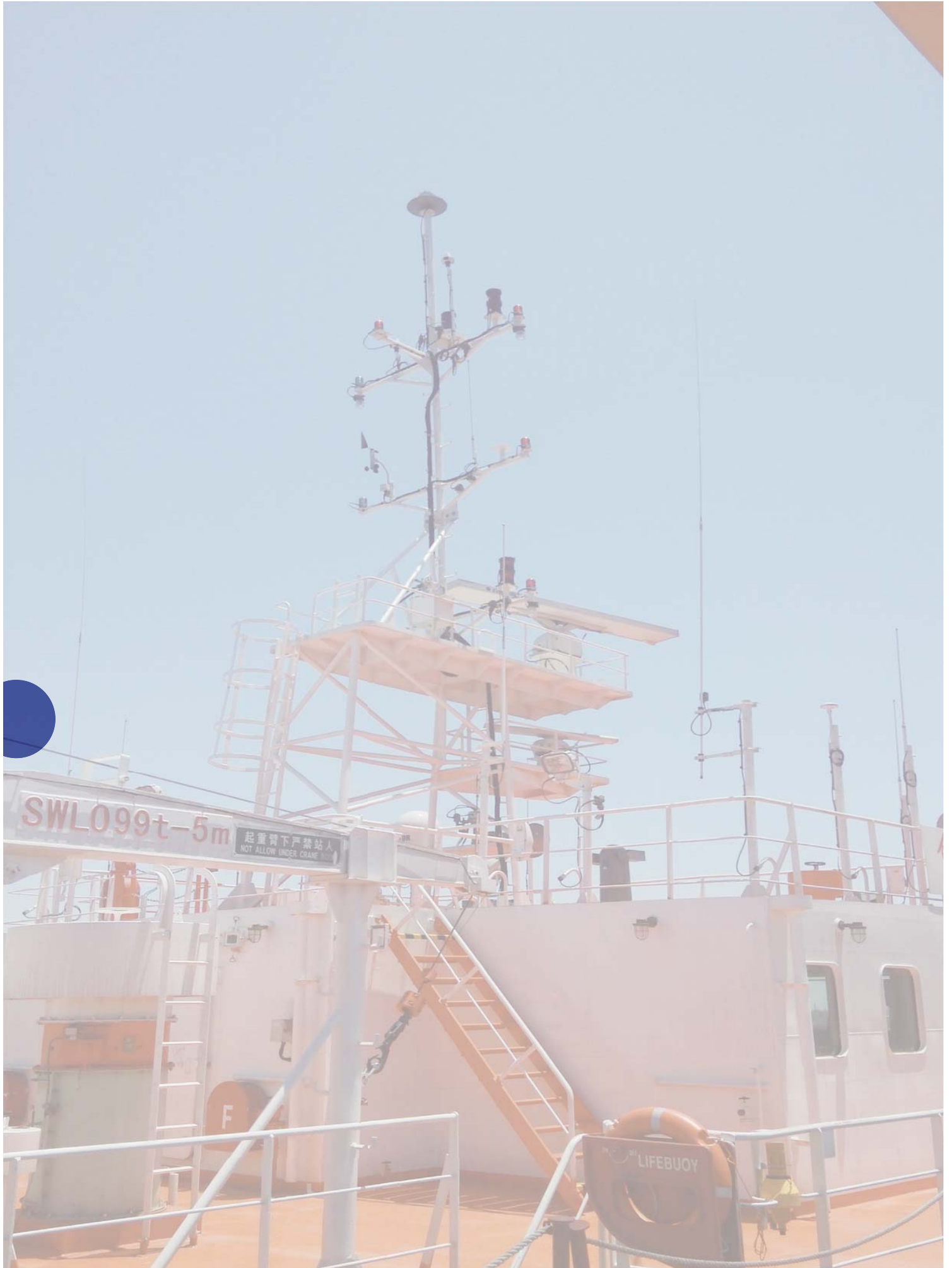
ZJD13 is suitable to fix on the left and right at outside of boundary line for the deck at inside of boundary as illumination light. The shell is made of high quality stainless steel. The light body can be rotated in horizontally and vertically to adjust the angle of illumination. Adopt high quality silicone rubber for sealing with good waterproof performance. The lampshade glass is toughened, which can be bear the temperature sudden changes about 250 °C and with the feature of transmission of light. The cable outside diameter is  $\varnothing 9 \sim \varnothing 11\text{ mm}$ .

■ **Adopt standard:**

Conform to GJB534B-2009 STANDARD of GENERAL REQUIREMENTS FOR HELICOPTER FACILITIES OF NON-AVIATION SHIPS .Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS. Conform to GB/T3027-2012 STANDARD OF MARINE ILLUMINATE LIGHTS COMMONLY USED TECHNOLOGY CONDITIONS. Conform to CAP437-2013 STANDARD of SAFETY REGULATIONS FOR MARINE HELICOPTER DECK PLATFORM.



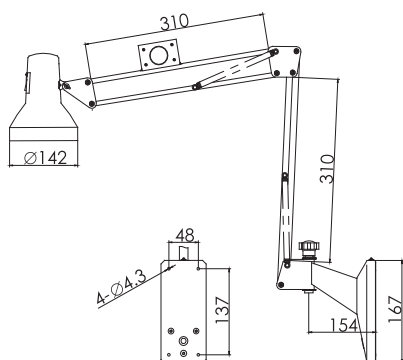
可见距离 Visibility	$\geq 6000\text{cd}$
视角 Visible arc	水平旋转 Horizontal rotary arc $\pm 180^\circ$
	垂直旋转 Vertical rotary arc $+ 5^\circ \sim - 20^\circ$
颜色 Color	明 Transparent
电压 Voltage	220V/50HZ
功率 Power	2X150W
灯座 Lamp holder	E27
光源 Light source	卤钨灯泡 Tungsten halogen bulb
防护等级 Protection class	IP56
重量 Weight	12kg



## 其它灯具

Other lamps and lanterns





■ 适用范围：

该灯具供船舶驾驶室海图桌作照明用。

■ 产品特性：

1. 灯体采用优质冷轧板模压成型。
2. 灯具可上下、前后、左右自由调节。
3. 配有调光器，可作无级调光，调光范围 30V ~ 218V。
4. 电缆外径：Ø8mm。

■ 采用标准：

1. GB7000.201 标准。
2. GB7000.1 标准。
3. 《钢质海船入级规范》

■ The scope of application:

This product is used for illumination on the chart desk in ship cabin.

■ Products feature:

- 1.The body of light is made of good quality cold-rolled steel sheets by compression molding.
- 2.The light can be adjusted freely from up and down, front and back, left and right.
- 3.The dimmer can be matched for light as stepless dimming, the adjusting range from 30V to 218V.
- 4.The cable outside diameter is Ø8mm.

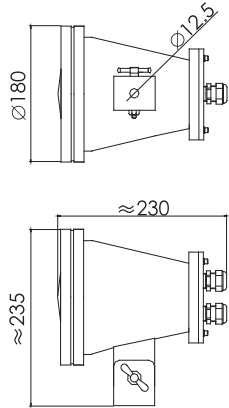
■ Adopt standard :

- 1.Conform to STANDARD of GB7000.201.
- 2.Conform to STANDARD of GB7000.1.
- 3.Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

型号 Type	CHT4
电压 Voltage ( V )	220
功率 Power(W)	≤ 100
光源 Light source	白炽灯 Incandescent lamp
灯座 Lamp holder	E27
防护等级 Protection class	IP20
重量 Weight(Kg)	1.9

GC216 水下灯 / GC217 船坞灯

GC216 UN-WATER LAMP / GC217 SHIPYARD LAMP



GC216



GC217

■ 适用范围：

该类灯具专为大型船坞设计，既可作坞底或坞壁照明，又可与深潜器配套作水下工作照明用。

■ 产品特性：

灯体采用优质的不锈钢材料焊接成型。电缆外径： $\varnothing 10 \sim \varnothing 12\text{mm}$ 。GC217 配带电器箱，电器性能安全，能在较高的工作温度下长时间工作。

■ 采用标准：

GB7000.201 标准；GB7000.1 标准；《钢质海船入级规范》。

■ The scope of application:

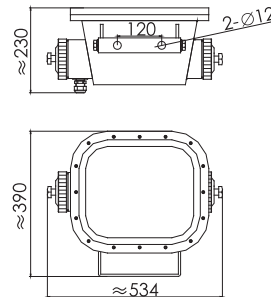
The products are designed for illumination on the bottom or the wall of large shipyard, they are also fitted with deep dive apparatus as underwater illumination when work.

■ Products feature:

The body of light is made of good quality stainless steel material by welding fabrication, the cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ . GC217 matched electrical box with safety-performance, and it can work for a long time in higher temperature condition.

■ Adopt standard:

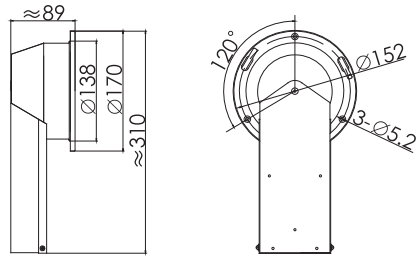
Conform to STANDARD of GB7000.201, GB7000.1 and RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.



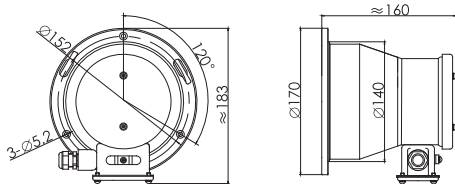
型号 Type	GC216	GC217
电压 Voltage ( V )	220V/50HZ	
灯座 Lamp holder	E27	E40
光源 Light source/ 功率 Power(W)	白炽灯 Incandescent lamp/60W	高压钠灯 Hp sodium lamp/400W 金卤灯 Metal halide lamp/400W
颜色 Color	明 Transparent	
水深 Water depth ( m )	15	30
防护等级 Protection class	IP68	
重量 Weight(Kg)	6.0	23.0



JXQ-1



JXQ-2



■ 适用范围：

该灯具适用于各类船舶的舱室作装饰照明。

■ 产品特性：

灯体采用优质冷轧板模压成型，造型美观。嵌入式安装。节能光源，光线柔和，使用寿命长，光强度高，能耗低。电缆外径  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ 采用标准：

GB7000.201 标准；GB7000.1 标准；《钢质海船入级规范》。

■ The scope of application:

This products is suitable for decoration illumination for cabin or all kinds of ships.

■ Products feature:

The body of light is made of cold-rolled steel sheets by compression molding with beauty designed and recessed mounting. energy-save light source, light softness, long service life, high luminous intensity, and lower power consumption. Cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .

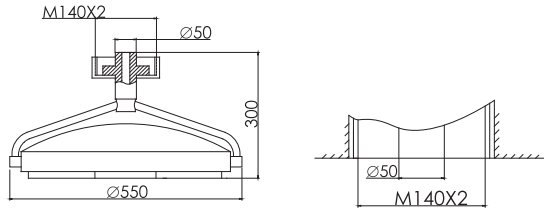
■ Adopt standard:

Conform to STANDARD of GB7000.201, GB7000.1 and Conform to RULES FOR CLASSIFICATION OF SEA-GOING STEEL SHIPS.

型号 Type	JXQ-1	JXQ-2
电压 Voltage (V)	220	
功率 Power(W)	13	
光源 Light source	节能灯 Energy-saving lamp	
灯座 Lamp holder	G24	E27
防护等级 Protection class	IP20	
重量 Weight(Kg)	0.9	1.1

CLD4B 医疗灯 / ZY-YJ203D/S 诱导灯

CLD4B MEDICAL LIGHT / ZY-YJ203D/S INDICATOR LIGHT



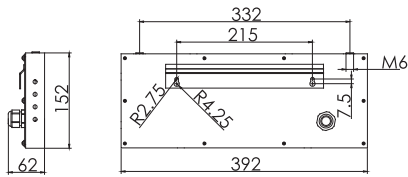
LD4B

■ The scope of application and products feature:

The products are special use for operating room in hospital. Shadowless bulb is made of glass with crown internal reflector and special light source for operation in hospital. Ceiling type for mounting.

■ 适用范围及产品特性：

该灯具为医院手术室专用。无影灯泡采用内壁镀反射膜的玻璃灯壳制成，为医院手术室无影灯具专用光源。安装方式为吸顶式。



ZY-YJ203

■ The scope of application and products feature:

This products is suitable to use at passages and emergency exits in all kinds of ship as exits signs. The Auto-emergency time of illumination is more than 90 minutes. The shell of light is made of high-quality aluminum, the sign is made of plastics polycarbonate with transparent cover provided perfect light passing. Using the ion as light source with the feature of long life, high luminous intensity, and lower energy consumption. Installation way are lift or suspend type.

The cable outside diameter is  $\varnothing 5\text{mm}$ .

■ 适用范围和产品特性

该灯具可作为各类船舶通道和应急出口等场所作通道及出口指示。自动应急照明时间 $\geq 90$ 分钟。灯具壳体采用优质铝材，标识牌采用透明的聚碳酸酯，透光性能良好。等离子光源，使用寿命长，光强度高，能耗低。安装方式为吊式或挂式安装。电缆外径 $\varnothing 5\text{mm}$ 。

名称 Name	医疗灯 Medical Light	诱导灯 Indicator light	
型号 Type	LD4B	ZY-YJ203D	ZY-YJ203S
电压 Voltage(V)	24V	220V/50HZ	
功率 Power(W)	25X5	—	
照度 Illumination(Lx)	1000 ~ 50000	—	
表面亮度 surface brightness	—	$\geq 50\text{cd/m}^2$	
灯座 Lamp holder	BA25d/19	—	
防护等级 Protection class	—	IP22	
重量 Weight(Kg)	19	0.6	





# 电器箱

The electrical box



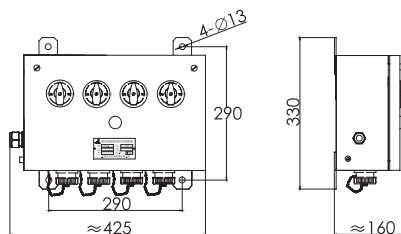


CZXH-4SD

CZXH-4SD 船用货舱照明开关插座箱

■ 适用范围和产品特性及采用标准:

该插座箱主要为船舶货舱内的照明灯具提供多路电源。箱体外壳采用优质不锈钢板模压成型。插座材料分为 PC 和铜质二类。带有 4 路开关控制及熔断器保护。产品符合 IEC309-1、ISO1496/ II 和 GB12321 标准。



CZXH-4SD Marine socket box with switch for cargo hold lighting

■ The scope of application ,products feature and adopt standard:

This main function of the socket box is to supply multi-channel power for illumination lighting at cargo of ship,The shell of box adopt good quality stainless steel by compressing mold,There are PC and copper two types material for socket,which have four-channel switch to control and fuse protected. The products conform to standard of IEC309-1, ISO1496/II and GB12321.

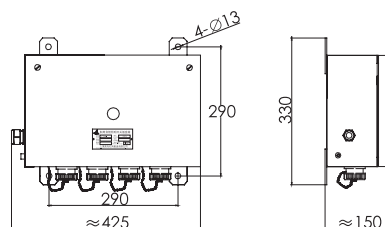


CZXHR-4SD

CZXHR-4SD 船用货舱照明插座箱

■ 适用范围和产品特性及采用标准:

该插座箱主要为船舶货舱内的照明灯具提供多路电源。箱体外壳采用优质不锈钢板模压成型。插座材料分为 PC 和铜质二类。带有 4 路熔断器保护。产品符合 IEC309-1、ISO1496/ II 和 GB12321 标准。



CZXHR-4SD Marine socket box with cargo hold lighting

■ The scope of application, products feature and adopt standard:

This main function of the socket box is to supply multi-channel power for illumination lighting at cargo in ship,the shell of box adopt high quality stainless steel by compressing mold,there are PC and copper two types material for socket with four-channel fuse protected. The products conform to standard of IEC309-1,ISO1496/ II and GB12321.

型号 Type	电压 (V)Voltage	防护等级 Protection class	电缆外径 Cable outside diameter	重量 ( kg ) Weight
CZXH-4SD	220	IP56	φ 15	8.0
CZXHR-4SD				8.5

■ 适用范围及产品特性:

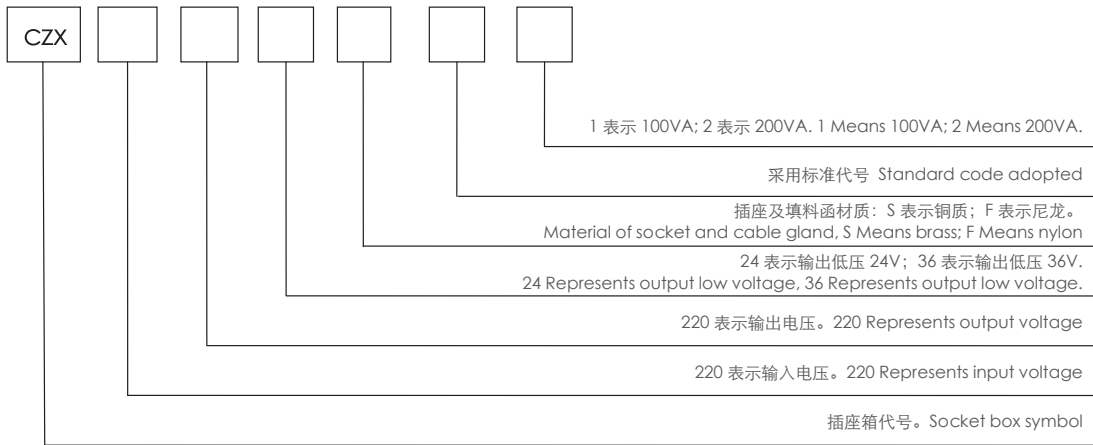
该插座箱适宜与机舱等临时性工作场所的照明灯具配套使用。箱体外壳用优质冷轧板模压成型。防护等级: IP56. 电缆外径:  $\varnothing 10 \sim \varnothing 12\text{mm}$ 。

■ The scope of application and products feature:

This socket box is suitable to use for illumination light in the workplace temporarily, such as engine room, the shell of box adopt good quality cold rolled sheet by compressing mold. Protection class: IP56. The cable outside diameter is  $\varnothing 10 \sim \varnothing 12\text{mm}$ .



型号说明: Type specification



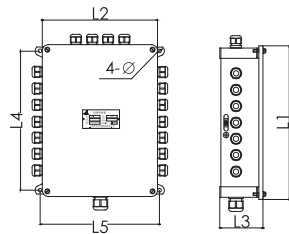
产品名称 Name	型号 Type	输出电流 Output current	输出电压 Output Voltage	重量 Weight (Kg)	安装尺寸 Dimension	
船用高低压 插座箱 Marine high- low-voltage Socket box	CZX220/24SD1	4A	24V	5.2		
	CZX220/24FC1			5.0		
	CZX220/36SD1	3A	36V	5.2		
	CZX220/36FC1			5.0		
	CZX220/220-24SD1	10A/4A	220/24V	5.7		
	CZX220/220-24FC1			5.5		
	CZX220/220-36SD1	10A/3A	220/36V	5.7		
	CZX220/220-36FC1			5.5		
	CZX220/24SD2	8A	24V	8.7		
	CZX220/24FC2			8.0		
	CZX220/36SD2		36V	8.7		
	CZX220/36FC2			8.0		
	CZX220/220-24SD2	10A/8A	220/24V	9.2		
	CZX220/220-24FC2			8.5		
	CZX220/220-36SD2	10A/6A	220/36V	9.2		
	CZX220/220-36FC2			8.5		

■ 适用范围和产品特性及采用标准:

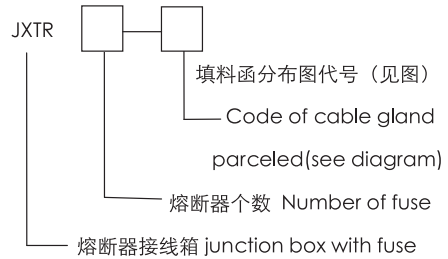
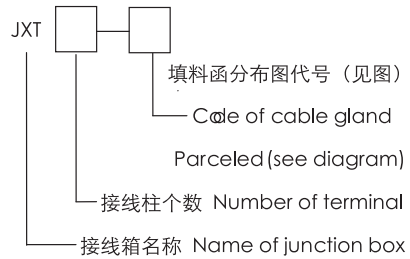
主要对舰船和工业系统交直流电气线路中连接电路时起保护作用。分为接线箱和熔断器接线箱两类: 工作电压:  $\leq 600V$ , 工作电流: 接线箱  $\leq 16A$ ; 熔断器接线箱  $\leq 20A$ 。防护等级: IP56。产品符合 CB/T3901-94 标准。填料函尺寸、数量和分布如有特殊要求, 订货时请予以说明。

■ The scope of application, products feature and adopt standard:

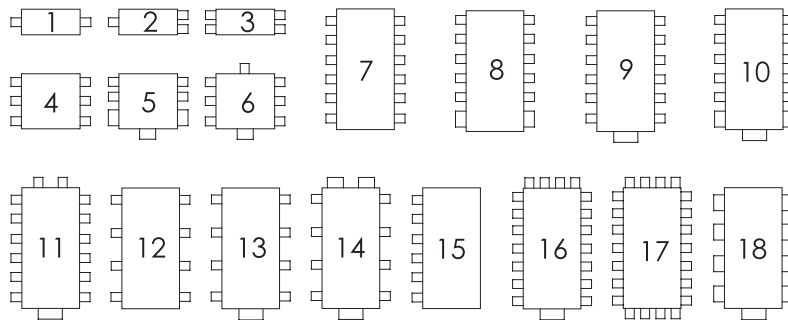
The main function of junction box is connection and protection of electrical circuit in DC or AC for marine and industry system. There are two types, junction box and fuse junction box. Working voltage:  $\leq 600V$ . Working current of junction:  $\leq 16A$ ; fuse junction box:  $\leq 20A$ , Protection class: IP56. Conform to CB/T3901-94 STANDARD. If you have special requirement for the dimension, quantity and distribution of junction box, please note it in order.



■ 型号说明 Type specification



■ 填料函分布图代号示意图 Diagram of cable gland



■ 接线箱型号规格表 Specification of junction box type

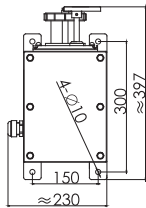
序号 No:	型号 Type	接线柱个数 (15A) Num of connection pillar		填料函个数 Num of gland			外形尺寸 Shell Dimensions	安装尺寸 Installation Dimensions
		15A	25A	PG29	PG21	PG16	L1 X L2 X L3(mm)	L4 X L5/ X 4-∅(mm)
1	JXT4-1	4				2	100X130X70	80X140X4-∅6.5
2	JXT4-2	4				3		
3	JXT4-3	4				4		
4	JXT6-1	6				2	130X130X70	110X140X4-∅6.5
5	JXT6-2	6				3		
6	JXT6-3	6				4		
7	JXT6-4	6				6	150X130X70	130X140X4-∅6.5
8	JXT6-5	6			3	4		
9	JXT6-6	6			1	7		
10	JXT8-4	8				6	200X180X100	170X190X4-∅6.5
11	JXT8-5	8			3	4		
12	JXT8-6	8			1	7		
13	JXT12-4	12				6	230X180X100	200X190X4-∅8.5
14	JXT12-5	12			3	4		
15	JXT12-6	12			1	7		
16	JXT12-12	12				(8)	250X180X110	220X190X4-∅8.5
17	JXT12-13	12		1		8		
18	JXT12-14	12		1	2	8		
19	JXT18-7	18				(12)	330X180X110	300X190X4-∅8.5
20	JXT18-8	18			2	10		
21	JXT18-9	12	6	1		12		
22	JXT18-12	18				(12)	250X180X110	220X190X4-∅8.5
23	JXT18-13	18		1		8		
24	JXT18-14	18		1	2	8		
25	JXT24-7	24				(12)	330X180X110	300X190X4-∅8.5
26	JXT24-8	24			2	10		
27	JXT24-9	24		1		12		
28	JXT24-10	18	6	1	2	10	350X220X110	320X230X4-∅8.5
29	JXT30-7	30				(12)		
30	JXT30-8	30			2	10		
31	JXT30-9	30		1		12	330X180X110	300X190X4-∅8.5
32	JXT30-10	30		1	2	10		
33	JXT30-11	30		1		14		
34	JXT30-15	30				(6)	350X220X110	320X230X4-∅8.5
35	JXT36-7	36				(12)		
36	JXT36-8	36			2	10		
37	JXT36-9	36		1		12	330X180X110	300X190X4-∅8.5
38	JXT36-10	36		1	2	10		
39	JXT36-11	36		1		14		
40	JXT36-15	36				(6)	350X220X110	320X230X4-∅8.5
41	JXT48-16	48		1		18		
42	JXT48-17	48				(22)		
43	JXT48-18	48		1	8		370X280X110	340X290X4-∅8.5

■ 熔断器接线箱型号规格表 Specification of junction box with fuse

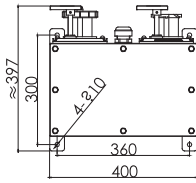
序号 No:	型号 Type	接线柱个数 (15A) Num of connection pillar	填料函个数 Num of gland			外形尺寸 Shell Dimensions	安装尺寸 Installation Dimensions
		JRO-10A	PG29	PG21	PG16	L1 X L2 X L3(mm)	L4 X L5/ X 4-∅(mm)
1	JXTR4-1	4			2	100X130X70	80X140X4-∅6.5
2	JXTR4-2	4			3		
3	JXTR4-3	4			4		
4	JXTR6-1	6			2	130X130X70	110X140X4-∅6.5
5	JXTR6-2	6			3		
6	JXTR6-3	6			4		
7	JXTR6-4	6			6	150X130X100	130X140X4-∅6.5
8	JXTR6-5	6		3	4		
9	JXTR6-6	6		1	7		
10	JXTR8-4	8			6	200X130X100	180X140X4-∅6.5
11	JXTR8-5	8		3	4		
12	JXTR8-6	8		1	7		
13	JXTR12-4	12			6	230X180X100	200X190X4-∅8.5
14	JXTR12-5	12		3	4		
15	JXTR12-6	12		1	7		
16	JXTR12-7	12		(12)	12	330X180X110	300X190X4-∅8.5
17	JXTR12-8	12		2	10		
18	JXTR12-12	12		(8)	8	250X180X110	220X190X4-∅8.5
19	JXTR12-13	12	1		8		
20	JXTR12-14	12	1	2	8		
21	JXTR15-7	15		(12)	12	330X180X110	300X190X4-∅8.5
22	JXTR15-8	15		2	10		
23	JXTR15-9	15	1		12		
24	JXTR15-10	15	1	2	10		
25	JXTR15-11	15	1		14		
26	JXTR18-7	18		(12)	12		
27	JXTR18-8	18		2	10		
28	JXTR18-9	18	1		12		
29	JXTR18-10	18	1	2	10		
30	JXTR18-11	18	1		14		



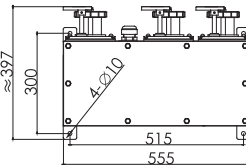
CZXH3-2/15-3



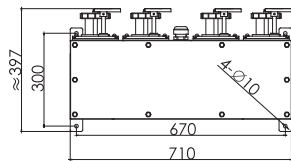
CZXH3-2/15-1



CZXH3-2/15-2



CZXH3-2/15-3



CZXH3-2/15-4

■ The scope of application, Products feature and adopt standard:

This socket box supply power for illumination lighting in refrigerator container, The shell of box adopt good quality stainless steel by compression mold, the material of socket is PA66, This products divided into normalized form and monitoring form, Added M at the end of normalized form type, which will mean monitoring form. Conform to IEC309-1, ISO1496/ II & GB12321 STANDARD. Protection class: IP56. The height of box is about 205mm.

■ 适用范围、产品特性及采用标准:

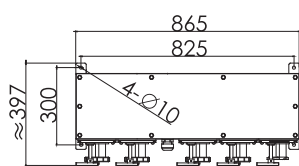
插座箱主要为冷藏集装箱提供电源。箱体外壳采用优质不锈钢板制成。插座材质采用 PA66，产品分为标准型和带监视型两类，在标准型号末尾加“M”为带监视型。产品符合 IEC309-1、ISO1496/ II 和 GB12321 标准。防护等级：IP56。箱体高度均为 205mm。

名称 Name	型号 Type	电压 (V) Voltage	电流 (A)/ 相极 Current/ Terminals/poles	电缆外径 Cable outside diameter	重量 (kg) Weight
单联插座箱 1 Gang reefer socket box	CZXH3-2/15-1	380/440	32/3P+E	∅18	8.6
	CZXH3-2/15-1M				9.0
双联插座箱 2 Gang reefer socket box	CZXH3-2/15-2			∅23	13.6
	CZXH3-2/15-2M				14.0
三联插座箱 3 Gang reefer socket box	CZXH3-2/15-3			∅32	18.5
	CZXH3-2/15-3M				18.9
四联插座箱 4 Gang reefer socket box	CZXH3-2/15-4			∅38	22.8
	CZXH3-2/15-4M				23.2

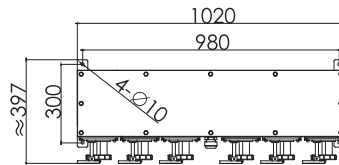




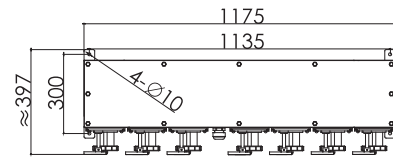
CZXH3-2/15-5



CZXH3-2/15-5



CZXH3-2/15-6



CZXH3-2/15-7

#### ■ 适用范围、产品特性及采用标准:

插座箱主要为冷藏集装箱提供电源。箱体外壳采用优质不锈钢板制成。插座材质采用 PA66，产品分为标准型和带监视型两类，在标准型号末尾加“M”为带监视型。产品符合 IEC309-1、ISO1496/ II 和 GB12321 标准。防护等级：IP56。箱体高度均为 205mm。

#### ■ The scope of application,Products

feature and adopt standard:This socket box supply power for illumination lighting in refrigerator container,the shell of box is made of high quality stainless steel the material of socket is PA66 This products divided into normalized form and monitoring form. Added M at the end of normalized form type,which will mean monitoring form. Conform IEC309-1,ISO1496/ II & GB12321 standard.Protection class:IP56.The height of box is about 205mm.

名称 Name	型号 Type	电压 (V) Voltage	电流 (A)/ 相极 Current/ Terminals/poles	电缆外径 Cable outside diameter	重量 (kg) Weight
五联插座箱 5 Gang reefer socket box	CZXH3-2/15-5	380/440	32/3P+E	Ø38	26.8
	CZXH3-2/15-5M				27.2
六联插座箱 6 Gang reefer socket box	CZXH3-2/15-6			Ø44	32.3
	CZXH3-2/15-6M				32.7
七联插座箱 7 Gang reefer socket box	CZXH3-2/15-7			Ø44	38.0
	CZXH3-2/15-7M				38.4

# 电气接插件

Electric connectors



32A/16A/10A 船用插头、插座、开关及带开关插座

■ 适用范围、产品特点、产品认证及采用标准:

主要供舰船交直流低电压电器线路连接、接通与分断电路用。插头单极拔出应 ≥ 4N; 导电部分的温升不超过 40K; 金属表面有可靠的接地装置; 盖板螺钉为 M6 防松螺钉。10A 产品通过欧共体“CE”和中国船级社“CCS”认证。插头、插座基座符合 DIN89320 标准, 开关基座符合 DIN89322 标准。

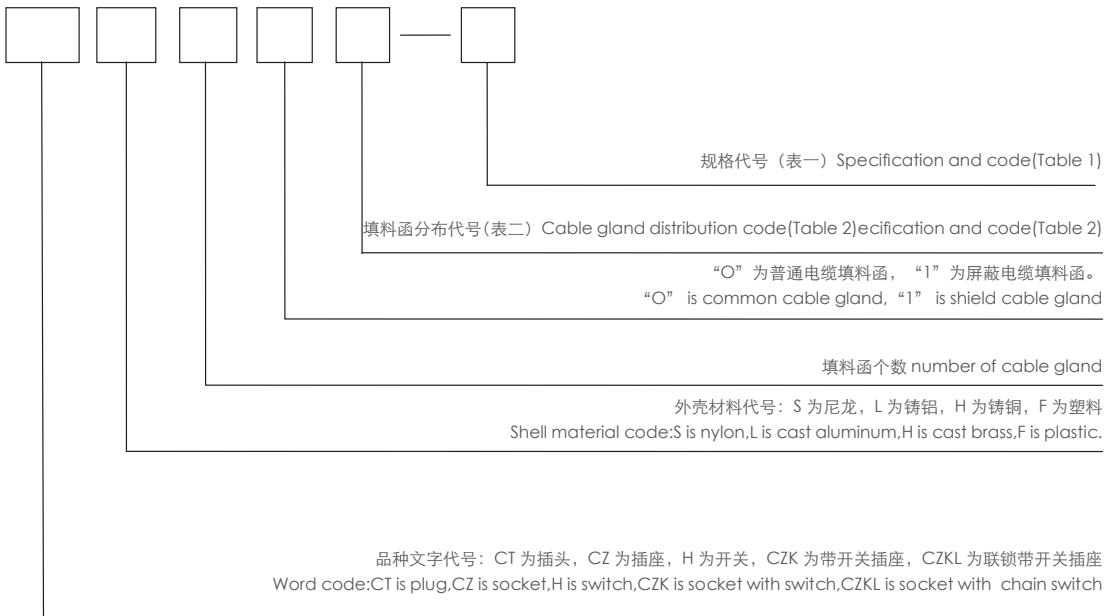
32A/16A/10A Marine plug, socket, switch and socket with switch

■ The scope of application, products feature, products certification and adopt standard:

Mainly used for ships AC/DC low voltage electrical wiring, connected and cutting on or off circuit. The single pole of plug pulled out should be not less than 4N. The temperature rise of conductive part should not exceed 40K. The surface of shell should have reliable earthing device. The screw of cover Plate is M6 locking screw. 10A products approved by CE (European Conformity) and CCS (China Classification Society). The base of Plug and socket conform to DIN89320 standard, the base of switch conform to DIN89322 standard.

32A/16A/10A 船用插头、插座、开关及带开关插座型号组成形式

The model formation of 32A/16A/10A marine plug, socket, switch and socket with switch



(表一) 规格代号 (Table 1) Specification code

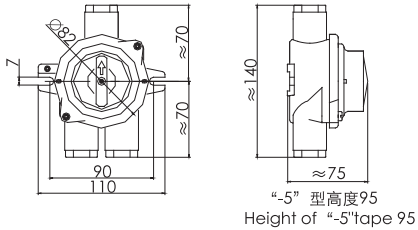
代号 Code	1	2	3	4	5
电压 Voltage (V)	24	125	250	380/440	
电流 Current(A)	10/16	10/16/32			
极数 Pole number	2	2+E		3+E	
频率 Frequency(Hz)	50/60				

(表二) 填料函分布代号 (Table 2) Gland's distribution code

代号 Code	外形简图 Outline drawing
1	
2	
9	



10A/16A 船用铜质开关  
10A/16A MARINE COPPER SWITCH



HH302/HH312



HH402/HH412

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing$ 10mm. Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:  
DIN89270.

■ 产品特性及产品认证

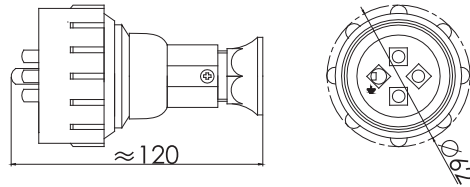
产品防护等级: IP56。电缆外径:  $\varnothing$ 10mm。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:  
DIN89270。

外形简图 Outline drawing	电压 Voltage ( V )	24	125	250	380/44	380/440
	代号 Code	1133				
	一般电缆型号 General cable type	HH101-1	HH101-2	HH101-3	HH101-4	HH101-5
	屏蔽电缆型号 Shield cable type	HH111-1	HH111-2	HH111-3	HH111-4	HH111-5
	重量 Weight ( Kg )	0.8				
	代号 Code	1133/D				
	一般电缆型号 General cable type	HH201-1	HH201-2	HH201-3	HH201-4	HH201-5
	屏蔽电缆型号 Shield cable type	HH211-1	HH211-2	HH211-3	HH211-4	HH211-5
	重量 Weight ( Kg )	1.0				
	代号 Code	1133/2				
	一般电缆型号 General cable type	HH202-1	HH202-2	HH202-3	HH202-4	HH202-5
	屏蔽电缆型号 Shield cable type	HH212-1	HH212-2	HH212-3	HH212-4	HH212-5
	重量 Weight ( Kg )	1.0				
	代号 Code	1133/3				
	一般电缆型号 General cable type	HH302-1	HH302-2	HH302-3	HH302-4	HH302-5
	屏蔽电缆型号 Shield cable type	HH312-1	HH312-2	HH312-3	HH312-4	HH312-5
	重量 Weight ( Kg )	1.1				
	代号 Code	1133/2D				
	一般电缆型号 General cable type	HH402-1	HH402-2	HH402-3	HH402-4	HH402-5
	屏蔽电缆型号 Shield cable type	HH412-1	HH412-2	HH412-3	HH412-4	HH412-5
	重量 Weight ( Kg )	1.2				



CTH101/CTH111-2/3/4



CTH101/CTH111-5

■ 产品特性及产品认证

产品防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:

DIN89267。

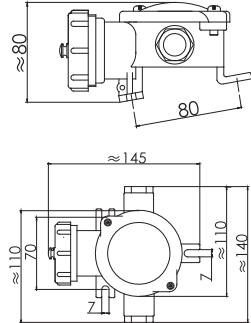
■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing 12\text{mm}$ .Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:

DIN89267.

电压 Voltage(V)	24	125	250	500	500
插销示意图 Plug pin diagram					
代号 Code	1142/MS				
一般电缆型号 General cable type	CTH101-1	CTH101-2	CTH101-3	CTH101-4	CTH101-5
重量 Weight(Kg)	0.53	0.54			0.55
屏蔽电缆型号 Shield cable type	CTH111-1	CTH111-2	CTH111-3	CTH111-4	CTH111-5
重量 Weight(Kg)	0.57	0.58			0.59



CZH201/CZH211



CZH209/CZH219-2/3/4

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing 12\text{mm}$ .Products approved by CE(European Conformity)and CCS(China Classification Society).

■ Adopt standard:  
DIN89262.

■ 产品特性及产品认证

产品防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:  
DIN89262。

外形简图 Outline drawing	电压 Voltage ( V )	24	125	250	500	
	插销示意图 Plug pin diagram					
	代号 Code	1141				
	一般电缆型号 General cable type	CZH101-1	CZH101-2	CZH101-3	CZH101-4	CZH101-5
	屏蔽电缆型号 Shield cable type	CZH111-1	CZH111-2	CZH111-3	CZH111-4	CZH111-5
	重量 Weight(Kg)	1.1	1.2		1.3	
	代号 Code	1141/R				
	一般电缆型号 General cable type	CZH109-1	CZH109-2	CZH109-3	CZH109-4	CZH109-5
	屏蔽电缆型号 Shield cable type	CZH119-1	CZH119-2	CZH119-3	CZH119-4	CZH119-5
	重量 Weight(Kg)	1.1	1.2		1.3	
	代号 Code	1141/D				
	一般电缆型号 General cable type	CZH201-1	CZH201-2	CZH201-3	CZH201-4	CZH201-5
	屏蔽电缆型号 Shield cable type	CZH211-1	CZH211-2	CZH211-3	CZH211-4	CZH211-5
	重量 Weight(Kg)	1.2	1.3		1.4	
	代号 Code	1141/2				
	一般电缆型号 General cable type	CZH202-1	CZH202-2	CZH202-3	CZH202-4	CZH202-5
	屏蔽电缆型号 Shield cable type	CZH212-1	CZH212-2	CZH212-3	CZH212-4	CZH212-5
	重量 Weight(Kg)	1.2	1.3		1.4	
	代号 Code	1141/2/R				
	一般电缆型号 General cable type	CZH209-1	CZH209-2	CZH209-3	CZH209-4	CZH209-5
	屏蔽电缆型号 Shield cable type	CZH219-1	CZH219-2	CZH219-3	CZH219-4	CZH219-5
	重量 Weight(Kg)	1.2	1.3		1.4	

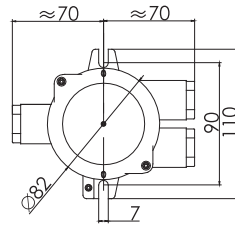
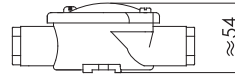


### 10A/16A 船用铜质接线盒

### 10A/16A MARINE COPPER JUNCTION BOX

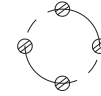


JXH401/JXH411



JXH302/JXH312

接线示意图: Wiring sketch map



#### ■ 产品特性及产品认证

产品防护等级: IP56. 电缆外径:  $\varnothing 12\text{mm}$ . 产品通过欧共体“CE”和中国船级社“CCS”认证。

#### ■ 采用标准:

DIN89250.

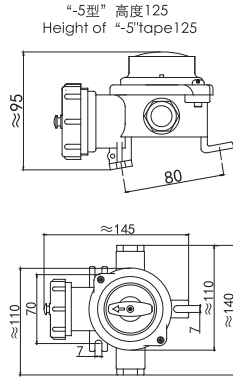
#### ■ Products feature and products certification

Products protection class: IP56. Cable outside diameter is  $\varnothing 12\text{mm}$ . Products approved by CE (European Conformity) and CCS (China Classification Society).

#### ■ Adopt standard:

DIN89250.

外形简图 Outline drawing	代号 Code	一般电缆型号 General cable type	屏蔽电缆型号 Shield cable type	重量 Weight(Kg)
	1151	JXH201	JXH211	0.8
	1150	JXH202	JXH212	
	1152	JXH301	JXH311	0.9
	1156	JXH302	JXH312	
	1153	JXH401	JXH411	1.0
	1155	JXH402	JXH412	



CZKH201/CZKH211



CZKH209/CZKH219

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing$ 12mm.Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:  
DIN89262.

■ 产品特性及产品认证

产品防护等级: IP56。电缆外径:  $\varnothing$ 12mm。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:  
DIN89262。

外形简图 Outline drawing	电压 Voltage ( V )	24	125	250	500	
	插销示意图 Plug pin diagram					
	代号 Code	1144				
	一般电缆型号 General cable type	CZKH101-1	CZKH101-2	CZKH101-3	CZKH101-4	CZKH101-5
	屏蔽电缆型号 Shield cable type	CZKH111-1	CZKH111-2	CZKH111-3	CZKH111-4	CZKH111-5
	重量 Weight(Kg)	1.1	1.2		1.3	
	代号 Code	1144/R				
	一般电缆型号 General cable type	CZKH109-1	CZKH109-2	CZKH109-3	CZKH109-4	CZKH109-5
	屏蔽电缆型号 Shield cable type	CZKH119-1	CZKH119-2	CZKH119-3	CZKH119-4	CZKH119-5
	重量 Weight(Kg)	1.1	1.2		1.3	
	代号 Code	1144/D				
	一般电缆型号 General cable type	CZKH201-1	CZKH201-2	CZKH201-3	CZKH201-4	CZKH201-5
	屏蔽电缆型号 Shield cable type	CZKH211-1	CZKH211-2	CZKH211-3	CZKH211-4	CZKH211-5
	重量 Weight(Kg)	1.2	1.3		1.4	
	代号 Code	1144/2				
	一般电缆型号 General cable type	CZKH202-1	CZKH202-2	CZKH202-3	CZKH202-4	CZKH202-5
	屏蔽电缆型号 Shield cable type	CZKH212-1	CZKH212-2	CZKH212-3	CZKH212-4	CZKH212-5
	重量 Weight(Kg)	1.2	1.3		1.4	
	代号 Code	1144/2/R				
	一般电缆型号 General cable type	CZKH209-1	CZKH209-2	CZKH209-3	CZKH209-4	CZKH209-5
	屏蔽电缆型号 Shield cable type	CZKH219-1	CZKH219-2	CZKH219-3	CZKH219-4	CZKH219-5
	重量 Weight(Kg)	1.2	1.3		1.4	



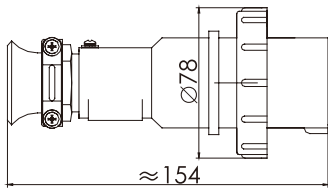
# CTS2/CTS3/CZS2/CZS3

16A 船用铜质大电流水密插头、插座

16A MARINE BRASS HIGH-CURRENT WATER-TIGHT PLUG SOCKET



CTS2-2/CTS3-2/14



■ **CTS2-2/CTS3-2 船用铜质大电流水密插头**  
CTS2-2/CTS3-2 MARINE BRASS HIGH-CURRENT WATER-TIGHT PLUG

- **产品特性：**  
产品防护等级：IP56。
- **采用标准：**  
CB/T3897-2011。

- **Products feature:**  
Protection class: IP56.
- **Adopt standard:**  
CB/T3897-2011.

型号 type	电压 (V) Voltage	电缆外径(mm) Cable outside Diameter	重量 (Kg) Weight
CTS2-2/14	250	φ 20	0.77
CTS3-2/14	380/440		1.0

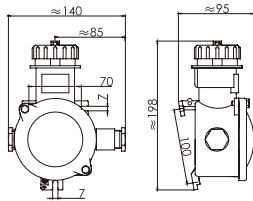


CZS2-2/CZS3-2-714

■ **CZS2-2/CZS3-2 船用铜质大电流水密插座**  
CZS2-2/CZS3-2 MARINE BRASS HIGH-CURRENT WATER-TIGHT SOCKET

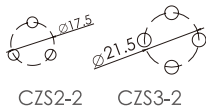
- **产品特性：**  
防护等级：IP56。电缆外径：φ13mm。
- **采用标准：**  
CB/T3897-2011。

- **Products feature:**  
Protection class:IP56.Cable outside diameter is φ13mm.
- **Adopt standard:**  
CB/T3897-2011.



CZS2-2/CZS3-2/114

接线示意图：Wiring sketch map



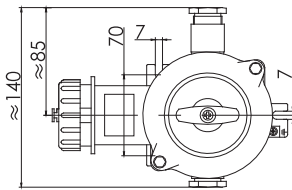
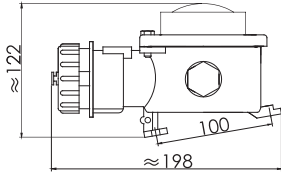
CZS2-2 CZS3-2

外形简图 Outline drawing	型号 type	电压 (V) Voltage	重量 Weight(Kg)
○	CZS2-2/114	250	2.1
	CZS3-2/114	380/440	2.4
○	CZS2-2/214	250	2.1
	CZS3-2/214	380/440	2.4
○	CZS2-2/714	250	2.1
	CZS3-2/714	380/440	2.4

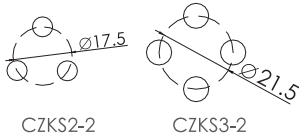
# CZKS2-2/CZKS3-2

16A 船用铜质大电流水密开关插座

16A MARINE BRASS HIGH-CURRENT WATER-TIGHT SOCKET WITH SWITCH



接线示意图: Wiring sketch map



CZKS2-2/CZKS3-2/114

■ 产品特性:

产品防护等级: IP56。电缆外径:  $\varnothing 13\text{mm}$ 。

■ 采用标准:

CB/T3897-2011。

■ Products feature and products certification

Products protection class: IP56. Cable outside diameter is  $\varnothing 13\text{mm}$ .

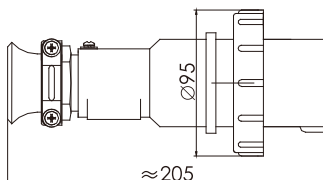
■ Adopt standard:

CB/T3897-2011.

外形简图 Outline drawing	型号 type	电压 ( V ) Voltage	重量 Weight(Kg)
○	CZKS2-2/114	250	2.3
	CZKS3-2/114	380V/440	2.5
○	CZKS2-2/214	250	2.3
	CZKS3-2/214	380/440	2.5
○	CZKS2-2/714	250	2.3
	CZKS3-2/714	380/440	2.5



CTS3-2/15



■ CTS3-2/15 船用铜质大电流水密插头  
CTS3-2/15 MARINE BRASS HIGH-CURRENT WATER-TIGHT PLUG

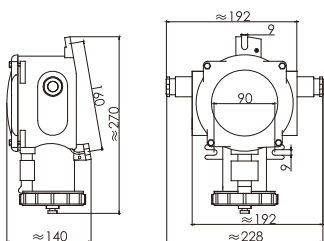
- 产品特性：  
产品防护等级：IP56。
- 采用标准：  
CB/T3897-2011。

- Products feature:  
Protection class: IP56.
- Adopt standard:  
CB/T3897-2011.

型号 type	电压 ( V ) Voltage	电缆外径 Cable outside Diameter	重量 (Kg) Weight
CTS3-2/15	380/440	φ 22	1.75



CZS3-2/215



CZS3-2/715

■ CZS3-2 船用铜质大电流水密插座  
CZS3-2 MARINE BRASS HIGH-CURRENT WATER-TIGHT SOCKET

- 产品特性：  
产品防护等级：IP56。电缆外径：Ø15mm。
- 采用标准：  
CB/T3897-2011。

- Products feature:  
Protection class: IP56. Cable outside diameter is Ø15mm.
- Adopt standard:  
CB/T3897-2011.

外形简图 Outline drawing	型号 type	电压 ( V ) Voltage	重量 Weight(Kg)
	CZS3-2/115	380/440	5.5
	CZS3-2/215		
	CZS3-2/415		5.6
	CZS3-2/515		
	CZS3-2/715		5.9

# CZKLS3-2/CZKLS2-2 | 带开关插座

## SOCKET WITH SWITCH

### ■ CZKLS3-2/32A 船用铜质大电流水密带连锁开关插座 CZKLS3-2/32A MARINE BRASS HIGH-CURRENT WATER-TIGHT SOCKET WITH CHAIN SWITCH

#### ■ 产品特性:

材质: 铜; 防护等级: IP56。电缆外径:  $\varnothing 15\text{mm}$ 。额定电流: 32A。额定电压: 380V/440V。

#### ■ 采用标准:

CB/T3897-2011。

#### ■ Products feature

Material: Brass Products protection class:IP56.Cable outside diameter is  $\varnothing 15\text{mm}$ .Rated current: 32A.Rated voltage:380V/440V.

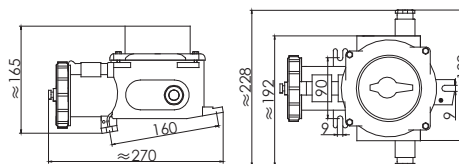
#### ■ Adopt standard:

CB/T3897-2011.



CZKLS3-2/515

外形简图 Outline drawing	型号 type	重量 Weight(Kg)
	CZKLS3-2/115	5.5
	CZKLS3-2/215	
	CZKLS3-2/415	5.6
	CZKLS3-2/515	
	CZKLS3-2/715	5.9



CZKLS3-2/715

### ■ CZKLS2-2/10A 船用铜质带连锁开关插座 CZKLS2-2/10A MARINE BRASS SOCKET WITH CHAIN SWITCH

#### ■ Products feature and products certification

Material: Brass Products protection class:IP56.Cable outside diameter is  $\varnothing 12\text{mm}$ .Rated current: 10A Products approved by CCS(China Classification Society).

#### ■ Adopt standard:

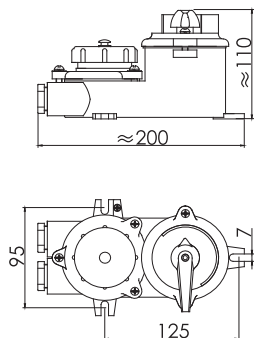
CB/T3897-2011.

#### ■ 产品特性及产品认证

材质: 铜; 防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。额定电流: 10A。产品通过中国船级社“CCS”认证。

#### ■ 采用标准:

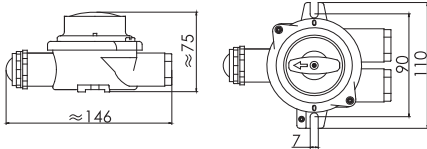
CB/T3897-2011。



电压 Voltage(V)	125	250	500	500
插销示意图 Plug pin diagram				
型号 type	CZKLS2-2/D1	CZKLS2-2/D2	CZKLS2-2/D3	CZKLS2-2/D4
重量 (Kg) Weight	2.14			



"-5" 型高度95  
Height of "-5" type 95



### ■ HHL312/10A 船用带指示灯开关 HHL312/10A Marine switch with light

#### ■ 产品特性及产品认证

主要为舰船冰库作指示灯用。材质：铜；防护等级：IP56。电缆外径：∅10mm。产品通过中国船级社“CCS”认证。

#### ■ 采用标准：

DIN89270 及 CB/T3897-2011。

#### ■ Products feature and products certification

It mainly used for ship freezer as indicating lamp. Material: Brass Products protection class: IP56. Cable outside diameter is ∅10mm. Products approved by CCS (China Classification Society).

#### ■ Adopt standard:

DIN89270 and CB/T3897-2011.

型号 type	额定电压 Rating voltage(V)	重量 Weight(Kg)
HHL312-1	24	1.0
HHL312-2	125	
HHL312-3	250	
HHL312-4	380/440	
HHL312-5		



### ■ AXH/AXS 型船用限位开关 AX Switch for marine limit switch

#### ■ 产品特性：

用于舰船作为阀门的工作状态及其他需联锁装置的电路中。防护等级：IP56。

#### ■ 采用标准：

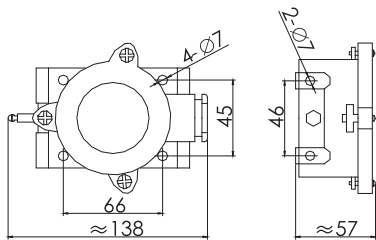
Q/3201.Ny03-91.

#### ■ Products feature:

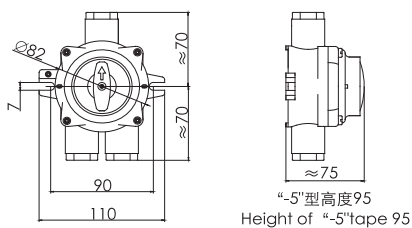
For ships as the working state of the valve and other need interlock circuit. Products protection class: IP56.

#### ■ Adopt standard:

Q/3201.Ny03-91.



型号 type	AXH	AXS
材料 Material	铸铜 Brass	尼龙 Nylon
电压 Voltage ( V )	24-250	
电流 Current(A)	2-10	
工作行程 Working range	8.5+0.5mm	
关闭压力 Closing pressure	5 ± 1Kg	
重量 (Kg)Weight	0.8	0.2



HS302



接线示意图: Wiring sketch map



HS201

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing$ 10mm.Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:  
DIN89270.

■ 产品特性及产品认证

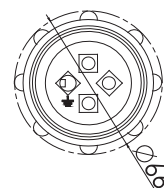
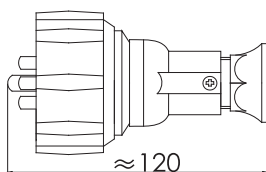
产品防护等级: IP56。电缆外径:  $\varnothing$ 10mm。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:  
DIN89270。

外形简图 Outline drawing	电压 Voltage ( V )	24	125	250	380/440	380/440
○	代号 Code	1133/FS				
	型号 type	HS101-1	HS101-2	HS101-3	HS101-4	HS101-5
	重量 Weight(Kg)	0.3				
○	代号 Code	1133/D/FS				
	型号 type	HS201-1	HS201-2	HS201-3	HS201-4	HS201-5
	重量 Weight(Kg)	0.3				
○=	代号 Code	1133/2/FS				
	型号 type	HS202-1	HS202-2	HS202-3	HS202-4	HS202-5
	重量 Weight(Kg)	0.3				
○=	代号 Code	1133/3/FS				
	型号 type	HS302-1	HS302-2	HS302-3	HS302-4	HS302-5
	重量 Weight(Kg)	0.35				
○=	代号 Code	1133/2D/FS				
	型号 type	HS402-1	HS402-2	HS402-3	HS402-4	HS402-5
	重量 Weight(Kg)	0.4				



CTS101-2/3/4



CTS101-5

■ 产品特性及产品认证

产品防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:

DIN89267。

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing 12\text{mm}$ .Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:

DIN89267.

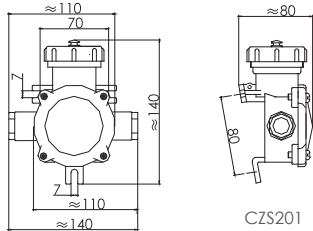
电压 Voltage(V)	24	125	250	380/440	380/440
插销示意图 Plug pin diagram					
代号 Code	1142/FS				
型号 type	CTS101-1	CTS101-2	CTS101-3	CTS101-4	CTS101-5
重量 Weight(Kg)	0.2				



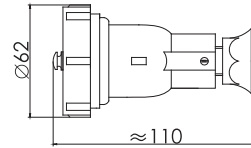
CZS209-2/3/4



CZS102-2/3/4



CZS201



■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is Ø12mm.Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:  
DIN89262.

■ 产品特性及产品认证

产品防护等级: IP56。电缆外径: Ø12mm。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:  
DIN89262。

外形简图 Outline drawing	电压 Voltage ( V )	24	125	250	380/440	
	插销示意图 Plug pin diagram					
—	代号 Code	1145/FS				
	型号 type	CZS102-1	CZS102-2	CZS102-3	CZS102-4	CZS102-5
	重量 Weight ( Kg )	0.14				
○	代号 Code	1141/FS				
	型号 type	CZS101-1	CZS101-2	CZS101-3	CZS101-4	CZS101-5
	重量 Weight ( Kg )	0.36				
○	代号 Code	1141/R/FS				
	型号 type	CZS109-1	CZS109-2	CZS109-3	CZS109-4	CZS109-5
	重量 Weight ( Kg )	0.36				
○	代号 Code	1141/D/FS				
	型号 type	CZS201-1	CZS201-2	CZS201-3	CZS201-4	CZS201-5
	重量 Weight ( Kg )	0.38				
=○	代号 Code	1141/2/FS				
	型号 type	CZS202-1	CZS202-2	CZS202-3	CZS202-4	CZS202-5
	重量 Weight ( Kg )	0.38				
○=	代号 Code	1141/2/R/FS				
	型号 type	CZS209-1	CZS209-2	CZS209-3	CZS209-4	CZS209-5
	重量 Weight ( Kg )	0.38				





JXS401

■ 产品特性及产品认证

产品防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:

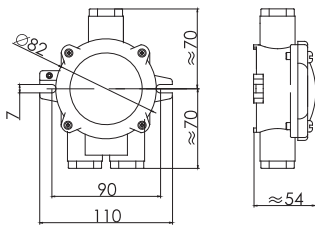
DIN89250。

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing 12\text{mm}$ .Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:

DIN89250.

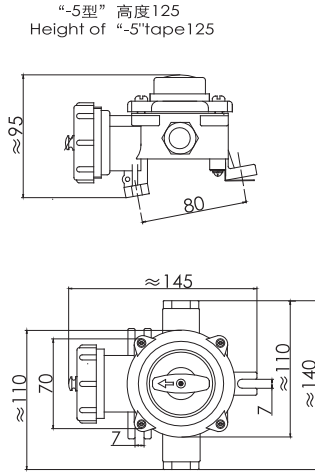


JXS302



接线示意图: Wiring sketch map

外形简图 Outline drawing	代号 Code	型号 type	重量 Weight(Kg)
	1151/FS	JXS201	0.23
	1150/FS	JXS202	
	1152/FS	JXS301	0.27
	1156/FS	JXS302	
	1153/FS	JXS401	0.31
	1155/FS	JXS402	



CZKS201



CZKS202-2/3/4

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing 12\text{mm}$ .Products approved by CE(European Conformity) and CCS(China Classification Society).

■ Adopt standard:  
DIN89263.

■ 产品特性及产品认证

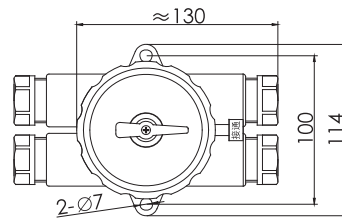
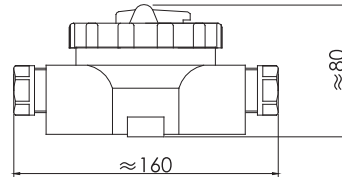
产品防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。产品通过欧共体“CE”和中国船级社“CCS”认证。

■ 采用标准:  
DIN89263。

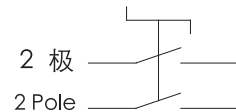
外形简图 Outline drawing	电压 Voltage ( V )	24	125	250	380/440	
	插销示意图 Plug pin diagram					
	代号 Code	1144FC				
	型号 type	CZKS101-1	CZKS101-2	CZKS101-3	CZKS101-4	CZKS101-5
	重量 Weight(Kg)	0.43		0.49		
	代号 Code	1144/R/FC				
	型号 type	CZKS109-1	CZKS109-2	CZKS109-3	CZKS109-4	CZKS109-5
	重量 Weight(Kg)	0.43		0.49		
	代号 Code	1144/D/FC				
	型号 type	CZKS201-1	CZKS201-2	CZKS201-3	CZKS201-4	CZKS201-5
	重量 Weight(Kg)	0.45		0.51		
	代号 Code	1144/2/FC				
	型号 type	CZKS202-1	CZKS202-2	CZKS202-3	CZKS202-4	CZKS202-5
	重量 Weight(Kg)	0.45		0.51		
	代号 Code	1144/2/R/FC				
	型号 type	CZKS209-1	CZKS209-2	CZKS209-3	CZKS209-4	CZKS209-5
	重量 Weight(Kg)	0.45		0.51		



HF3-1



HF4-1



接线示意图: Wiring sketch map

**■ 产品特性及产品认证**

产品防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。产品通过中国船级社“CCS”型式认可。

**■ 采用标准:**

GB3411/3412-92 和 GD01-2006。

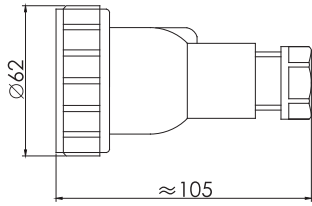
**■ Products feature and products certification**

Products protection class: IP56. Cable outside diameter is  $\varnothing 12\text{mm}$ . Products approved by CCS (China Classification Society).

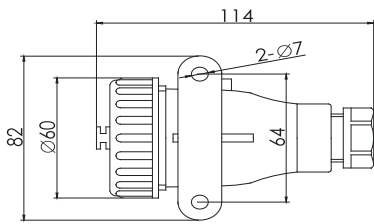
**■ Adopt standard:**

GB3411/3412-92 and GD01-2006.

外形简图 Outline drawing	型号 type	重量 Weight(Kg)
	HF2-2	0.35
	HF3-1	0.40
	HF4-1	0.43



CTF2-1



CZF2-3

■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing 12\text{mm}$ .Products approved by CCS(China Classification Society).

■ Adopt standard:  
DIN89267.

■ 产品特性及产品认证：

产品防护等级：IP56。电缆外径： $\varnothing 12\text{mm}$ 。产品通过中国船级社“CCS”型式认可。

■ 采用标准：  
DIN89267。

电压 Voltage(V)	24	250	125	500	
插销示意图 Plug pin diagram					
型号 type/ 重量 Weight(Kg)	CTF2-1/0.13	CTF2-2/0.14	CTF2-3/0.15	CTF3-1/0.15	CTF3-2/0.15
	CZF2-1/0.2	CZF2-2/0.21	CZF2-3/0.21	CZF3-1/0.21	CZF3-2/0.22

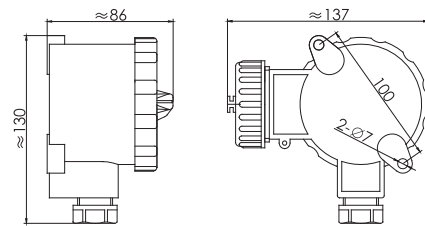
# CZKF2/CZKF3

船用尼龙带开关插座

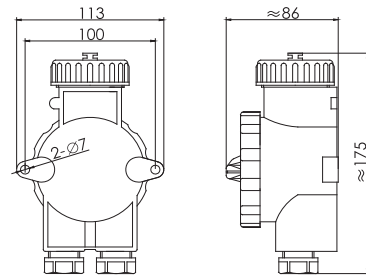
MARINE NYLON SOCKET WITH SWITCH



CZKF2-5



CZKF2-2/2-3/3-2



CZKF2-4/2-5

### ■ 产品特性及产品认证

产品防护等级: IP56。电缆外径:  $\varnothing 12\text{mm}$ 。产品通过中国船级社“CCS”型式认可。

### ■ 采用标准:

DIN89267。

### ■ Products feature and products certification

Products protection class: IP56. Cable outside diameter is  $\varnothing 12\text{mm}$ . Products approved by CCS (China Classification Society).

### ■ Adopt standard:

DIN89267.

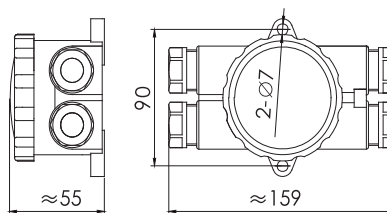
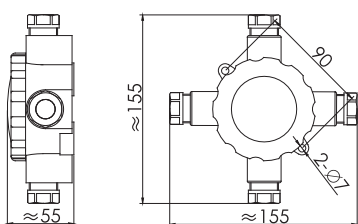
电压 Voltage(V)	250V	125V	500V
插销示意图 Plug pin diagram			
型号 type/ 重量 Weight(Kg)	CZKF2-2/0.50 CZKF2-4/0.57	CZKF2-3/0.48 CZKF2-5/0.54	CZKF3-2/0.52 —



JXF4-1/JXF4-3



JXF4-2



■ Products feature and products certification

Products protection class:IP56.Cable outside diameter is  $\varnothing 13\text{mm}$ .Products approved by CCS(China Classification Society).

■ Adopt standard:

GB3411/3412-92 and GD01-2006.

■ 产品特性及产品认证

产品防护等级: IP56。电缆外径:  $\varnothing 13\text{mm}$ 。产品通过中国船级社“CCS”型式认可。

■ 采用标准:

GB3411/3412-92 和 GD01-2006。

型号 type	接线板型式 Type of wiring board	电压 Voltage( V )	重量 Weight(Kg)
JXF4-1		250	0.30
JXF4-2			0.32
JXF4-3		500	

船用水密插头


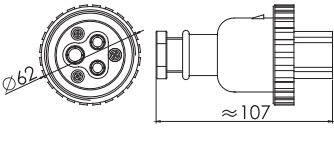

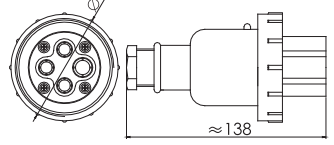

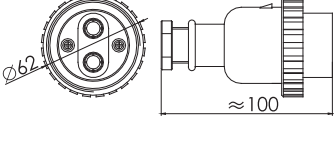

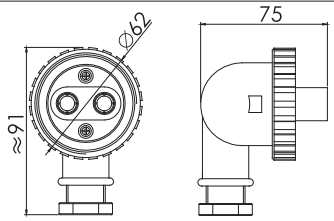

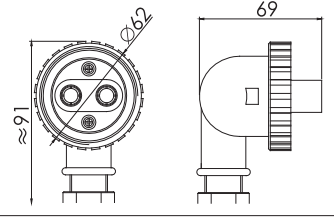

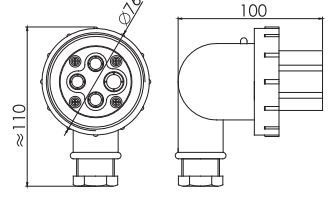
MARINE WATERTIGHT PLUG

■ 产品特性:

材质: 合成树脂;  
 防护等级: IP56;  
 产品符合: JISF8832、8833 标准。

■ Products feature:

material: synthetic resin;  
 Protection class:IP56.  
 Products conform to JIS8832、8833 standard.

		<table border="1"> <thead> <tr> <th>型号 type</th> <td>T-1MA</td> </tr> </thead> <tbody> <tr> <td>国际代码 International Code</td> <td>792801</td> </tr> <tr> <td>电压 Voltage ( V )</td> <td>250</td> </tr> <tr> <td>电流 Current(A)</td> <td>20</td> </tr> <tr> <td>电缆外径 Cable outside Diameter</td> <td><math>\varnothing 13</math></td> </tr> </tbody> </table>	型号 type	T-1MA	国际代码 International Code	792801	电压 Voltage ( V )	250	电流 Current(A)	20	电缆外径 Cable outside Diameter	$\varnothing 13$
型号 type	T-1MA											
国际代码 International Code	792801											
电压 Voltage ( V )	250											
电流 Current(A)	20											
电缆外径 Cable outside Diameter	$\varnothing 13$											
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型号 type	T-2MA											
国际代码 International Code	792803											
电压 Voltage ( V )	250											
电流 Current(A)	20											
电缆外径 Cable outside Diameter	$\varnothing 13$											
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型号 type	T-MA											
国际代码 International Code	-											
电压 Voltage ( V )	24											
电流 Current(A)	10											
电缆外径 Cable outside Diameter	$\varnothing 13$											
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型号 type	T-1MB											
国际代码 International Code	792802											
电压 Voltage ( V )	250											
电流 Current(A)	20											
电缆外径 Cable outside Diameter	$\varnothing 13$											
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型号 type	T-MB											
国际代码 International Code	-											
电压 Voltage ( V )	24											
电流 Current(A)	10											
电缆外径 Cable outside Diameter	$\varnothing 13$											
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型号 type	T-2MB											
国际代码 International Code	792804											
电压 Voltage ( V )	250											
电流 Current(A)	20											
电缆外径 Cable outside Diameter	$\varnothing 13$											

船用水密插座、开关带插座

MARINE SOCKET, SOCKET WITH SWITCH

■ 产品特性:

材质: 合成树脂;  
防护等级: IP56;  
产品符合: JISF8832、8833 标准。

■ Products feature:

material: synthetic resin;  
Protection class:IP56.  
Products conform to JIS8832、8833 standard.

		名称 Name	插座 Socket
		型号 Type	Z-1M
		国际代码 International Code	792806
		电压 Voltage	2P+E/250V
		电流 Current(A)	20
		电缆外径 Cable outside Diameter	∅12
		名称 Name	双联防水插座 Dual Waterproof Socket
		型号 Type	Z-2M
		国际代码 International Code	792831
		电压 Voltage	( 2P+E ) X2/250V
		电流 Current(A)	15
		电缆外径 Cable outside Diameter	∅12
		名称 Name	防水插座 Waterproof Socket
		型号 Type	Z-2MA
		国际代码 International Code	792807
		电压 Voltage	3P+E/250V
		电流 Current(A)	15
		电缆外径 Cable outside Diameter	∅20
		名称 Name	插座 Socket
		型号 Type	Z-M
		国际代码 International Code	-
		电压 Voltage	2P/24V
		电流 Current(A)	10
		电缆外径 Cable outside Diameter	∅12
		名称 Name	防水带开关双联插座箱 Waterproof Dual Socket Box With Switch
		型号 Type	CZXS
		国际代码 International Code	792832
		电压 Voltage	(2P+E) X2/250V
		电流 Current(A)	20
		电缆外径 Cable outside Diameter	∅12
		名称 Name	防水带开关插座 Waterproof Socket Box With Switch
		型号 Type	KZ-S2MR
		国际代码 International Code	792808
		电压 Voltage	2P+E/250V
		电流 Current(A)	10
		电缆外径 Cable outside Diameter	∅12



船用水密接线盒、开关

MARINE WATERTIGHT JUNCTION BOX AND SWITCH

■ 产品特性:

材质: 合成树脂;  
防护等级: IP56;

■ 采用标准:


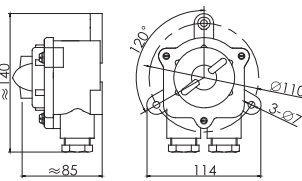

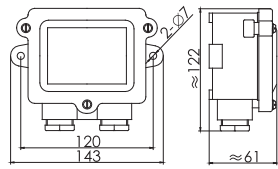

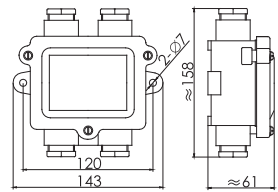
GB3411-3412-92 和 GD01-2006。

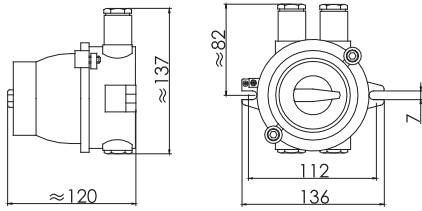
■ Products feature:

material: synthetic resin;  
Protection class: IP56.

■ Products conform to:

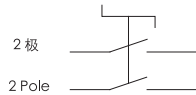
GB3411-3412-92 and GD01-2006 standard.

		名称 Name	防水开关 Waterproof switch
		型号 type	K-2MR
		国际代码 International Code	793017
		电压 Voltage ( V )	250
		电流 Current(A)	10
电缆外径 Cable outside Diameter	∅12		
		名称 Name	船用接线盒 Marine junction box
		型号 type	J-1M
		国际代码 International Code	794831
		电压 Voltage ( V )	250
		电流 Current(A)	20
电缆外径 Cable outside Diameter	∅12		
		名称 Name	船用接线盒 Marine junction box
		型号 type	J-2M
		国际代码 International Code	794833
		电压 Voltage ( V )	250
		电流 Current(A)	20
电缆外径 Cable outside Diameter	∅12		



DCHH202-1

接线示意图: Wiring sketch map



DCHH202-4

#### ■ The scope of application:

Mainly used for electric connection, circuit connected with the breaker for all kinds of ships, offshore oil, chemical industry and other places which may accumulate inflammable and explosive gas.

#### ■ Products feature and products certification:

Flameproof and increased safety type of explosion-proof switch, Explosion proof mark: Exde II CT6, it can work normally under the temperature  $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ . The shell is made of high strength high quality brass precision manufacturing forming. With good electrical properties and good waterproof performance. Protection class: IP56. Voltage: 380V. Current: 16A. Cable outside diameter is  $\varnothing 13\text{mm}$ .

This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).

#### ■ Adopt standard:

IEC60079.

#### ■ 适用范围:

主要供各类船舶、海洋石油、化工等易积聚易燃易爆气体的场所作电器连接、电路接通与分断之用。

#### ■ 产品特性及产品认证:

隔爆增安型防爆开关, 防爆标志: Exde II CT6。在温度为  $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$  的环境中能正常工作。外壳采用高强度的优质黄铜精密制造成型。电气性能和密封性好。

防护等级: IP56。电压: 380V。电流: 16A。电缆外径:  $\varnothing 13\text{mm}$ 。产品经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。

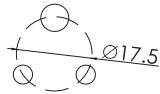
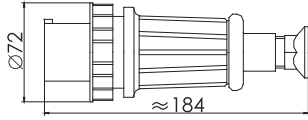
#### ■ 采用标准:

IEC60079。

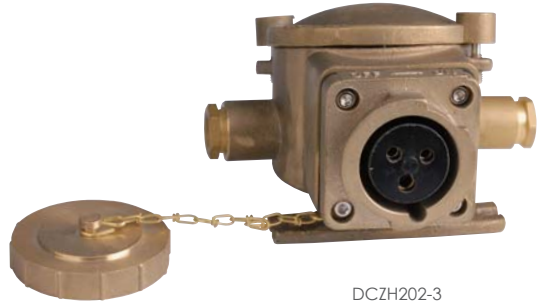
外形简图 Outline drawing	代号 Code	型号 type	重量 Weight(Kg)
	14105/2	DCHH202-1	1.90
	14105/D	DCHH202-2	
	14105/3	DCHH202-3	2.0
	14105/4	DCHH202-4	2.1



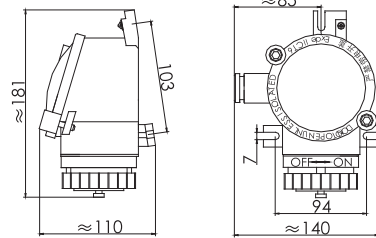
DCTH202-2



接线示意图: Wiring sketch map



DCZH202-3



DCZH202-2

■ 适用范围:

主要供各类船舶、海洋石油、化工等易积聚易燃易爆气体的场所作电器连接、电路接通与分断之用。

■ 产品特性及产品认证:

外壳采用高强度的优质黄铜精密制造成型。电气性能和密封性好。在温度为 -20℃ ~ +50℃ 的环境中能正常工作。防护等级: IP66。电压: 250V。电流: 16A。电缆外径: Ø13mm。产品经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。

■ 采用标准:

IEC60079。

■ The scope of application:

Mainly used for electric connection, circuit connected with the breaker for all kinds of ships, offshore oil, chemical industry and other places which may accumulate inflammable and explosive gas.

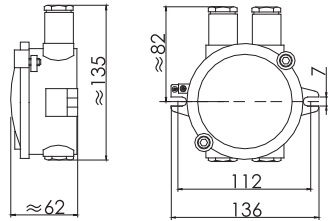
■ Products feature and products certification:

The shell is made of high strength high quality brass precision manufacturing forming. With good electrical properties and good waterproof performance. It can work normally under the temperature -20℃ ~ +50℃. Protection class: IP66. Voltage: 250V. Current: 16A. Cable outside diameter is Ø13mm. Adopt This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).

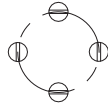
■ standard:

IEC60079.

外形简图 Outline drawing	代号 Code	型号 type	防爆标志 Explosion-proof mark	重量 Weight(Kg)
—	5516/ST	DCTH202-2	Ex e II T6	1.3
○—	5516/L	DCZH202-1	E x de II C T6	2.7
—○	5516/R	DCZH202-2		2.8
—○—	5516/D	DCZH202-3		



DCJXH202-2



接线示意图: Wiring sketch map



DCJXH202-4

#### ■ The scope of application:

Mainly used for electric connection, circuit connected with the breaker for all kinds of ships, offshore oil, chemical industry and other places which may accumulate inflammable and explosive gas.

#### ■ Products feature and products certification:

Increased safety type of explosion-proof junction box, Explosion proof mark: Exde IICT6, it can work normally under the temperature  $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ . The shell is made of high strength high quality brass precision manufacturing forming. With good electrical properties and good waterproof performance. Protection class: IP56. Voltage: 550V Current: 20A. Cable outside diameter is  $\varnothing 13\text{mm}$ . This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).

#### ■ Adopt standard:

IEC60079.

#### ■ 适用范围:

主要供各类船舶、海洋石油、化工等易积聚易燃易爆气体的场所作电器连接、电路接通与分断之用。

#### ■ 产品特性及产品认证:

增安型防爆接线盒，防爆标志: Exe II T6。在温度为  $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$  的环境中能正常工作。外壳采用高强度的优质黄铜精密制造成型。电气性能和密封性好。防护等级: IP56。电压: 550V。电流: 20A。电缆外径:  $\varnothing 13\text{mm}$ 。产品经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。

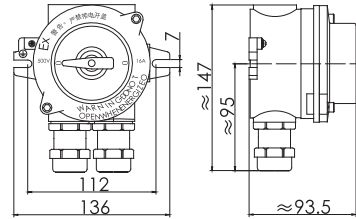
#### ■ 采用标准:

IEC60079。

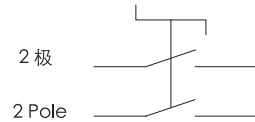
外形简图 Outline drawing	代号 Code	型号 type	重量 Weight(Kg)
	510	DCJXH202-1	1.4
	510/2	DCJXH202-2	
	510/3	DCJXH202-3	1.5
	510/4	DCJXH202-4	1.6



FHH202-3



FHH202-2



接线示意图: Wiring sketch map

■ **适用范围:**

主要供各类船舶、海洋石油、化工等易积聚易燃易爆气体的场所作电器连接、电路接通与分断之用。

■ **产品特性及产品认证:**

隔爆型防爆开关，防爆性能优于增安型。防爆标志：Exd II CT6Gb。在温度为 -20℃~+50℃的环境中能正常工作。外壳采用高强度的优质黄铜精密制造成型。电气性能和密封性好。防护等级：IP66。电压：440V。电流：16A。电缆外径：Ø13mm。产品经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。

■ **采用标准:**

IEC60079。

■ **The scope of application:**

Mainly used for electric connection, circuit connected with the breaker for all kinds of ships, offshore oil ,chemical industry and other places which may accumulate inflammable and explosive gas .

■ **Products feature and products certification:**

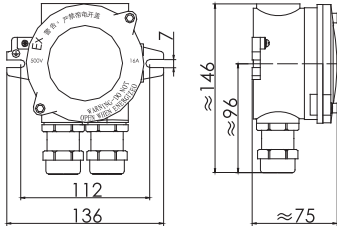
Flameproof type of explosion-proof switch ,explosion-proof function is better increased safety type.Expllosion proof mark:Exde IICT6Gb,it can work normally under the temperature -20 ℃ ~ +50 ℃ .The shell is made of high strength high quality brass precision manufacturing forming. With good electrical properties and good waterproof performance.Protection class:IP66.Voltage:440V Current:16A.Cable outside diameter is Ø13mm,

This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).

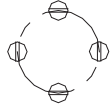
■ **Adopt standard:**

IEC60079.

外形简图 Outline drawing	型号 type	重量 Weight(Kg)
	FHH202-1	2.0
	FHH202-2	
	FHH202-3	2.1
	FHH202-4	2.2



FJXH202-2



接线示意图: Wiring sketch map



FJXH202-4

### ■ The scope of application:

Mainly used for electric connection, circuit connected with the breaker for all kinds of ships, offshore oil ,chemical industry and other places which may accumulate inflammable and explosive gas .

### ■ Products feature and products certification:

Flameproof type of explosion-proof junction box,explosion-proof function is better Increased safety type.Explosion proof mark:Exde IICT6Gb,it can work normally under the temperature -20 ℃ ~ +50 ℃ .The shell is made of high strength high quality brass precision manufacturing forming. With good electrical properties and good waterproof performance.Protection class:IP56.Voltage:440V Current:16A.Cable outside diameter is Ø13mm,This lamp has been inspected and certified by China National Lighting Fitting Quality Supervision Testing center and National Supervision and Examination Center for Explosion protected and Safety of Luminaire (NECESL).

### ■ Adopt standard:

IEC60079.

### ■ 适用范围:

主要供各类船舶、海洋石油、化工等易积聚易燃易爆气体的场所作电器连接、电路接通与分断之用。

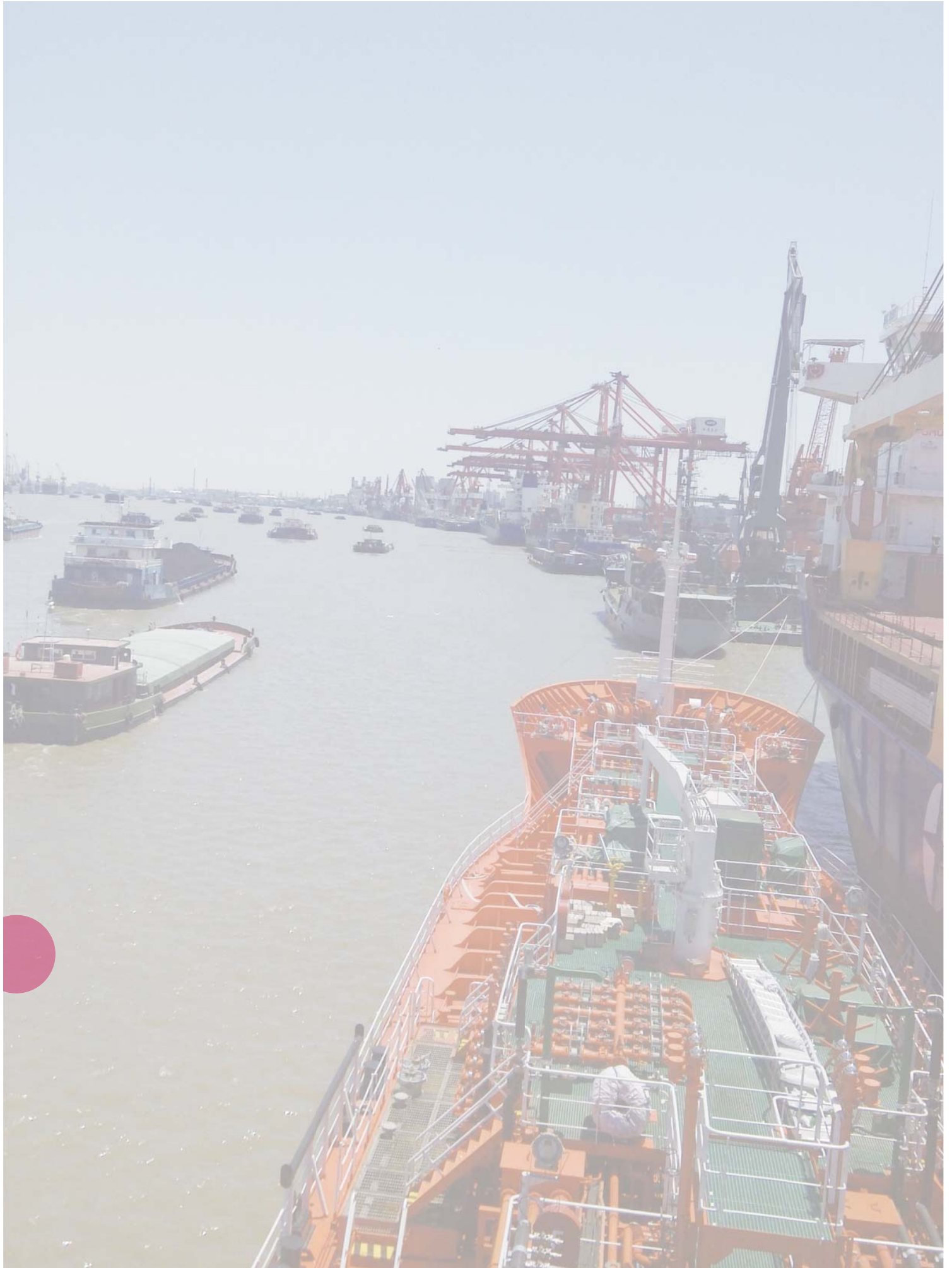
### ■ 产品特性及产品认证:

隔爆型防爆接线盒，防爆性能优于增安型。防爆标志：Exd II CT6Gb。在温度为 -20℃~ +50℃的环境中能正常工作。外壳采用高强度的优质黄铜精密制造成型。电气性能和密封性好。防护等级：IP56。电压：440V。电流：16A。电缆外径：Ø 13mm。产品经国家灯具质量监督检验中心和国家级照明灯具防爆安全监督检验站检验合格。

### ■ 采用标准:

IEC60079。

外形简图 Outline drawing	型号 type	重量 Weight(Kg)
	FJXH202-1	1.9
	FJXH202-2	
	FJXH202-3	2.1
	FJXH202-4	2.3



# 配件

Accessories





# DK7-1/2/AN1-01

## 火警按钮 FIRE WARNING BUTTON

### ■ 适用范围:

该按钮适用于各类船舶的舱室、过道等场所作火警报警装置。

### ■ 采用标准:

符合 GB11154-1989。

### ■ The scope of application

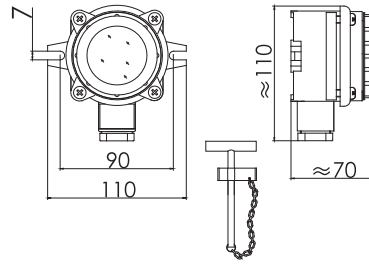
The push button is suitable for all kinds of ship as fire alarm device in the cabin, passage etc.

### ■ Adopt standard:

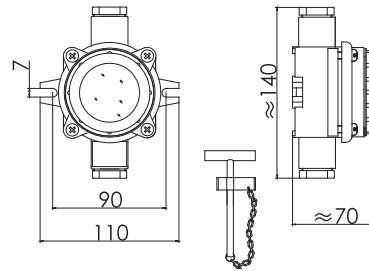
Conform to GB11154-1989.



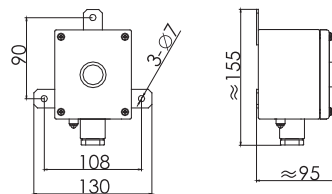
DK7-1



DK7-2



AN1-01



型号 Type	DK7-1	DK7-2	AN1-01
电压 Voltage ( V )	250		
电流 Current(A)	10		
电缆外径 Cable outside Diameter	Ø11 ~ Ø13		
材质 Material	尼龙 Nylon		钢质 Steel
防护等级 Protection class	IP56		
重量 Weight(Kg)	0.2	0.21	0.8

■ The scope of application

The push button switch is suitable for starting or closing all kinds of fans, water pump, oil pump in ship.

■ Adopt standard:

Conform to GB11154-1989.

■ 适用范围:

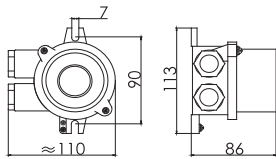
该按钮开关适用于对船舶中的各类风机、水泵、油泵的启动、关闭进行控制。

■ 采用标准:

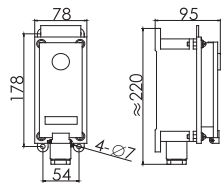
GB11154-1989。



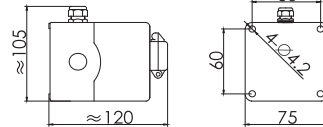
ANH1-01



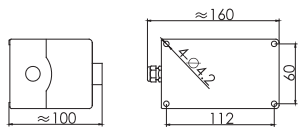
ANH3-12F



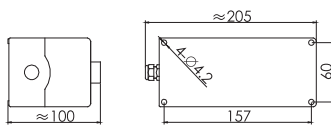
AN1-01F



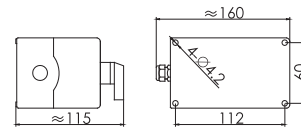
AN2-02



AN3-12



AN2-1K

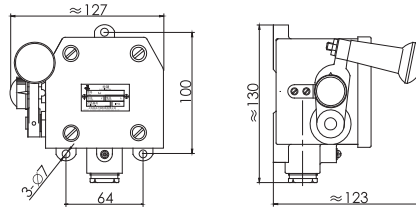


型号 Type	ANH1-01	ANH3-12F	AN1-01F	AN2-02	AN3-12	AN2-1K
电压 Voltage (V)	220					
电流 Current(A)	10					
电缆外径 Cable outside Diameter	∅10 ~ ∅12					
材质 Material	铜质 Brass			ABS		
防护等级 Protection class	IP65					
重量 Weight(Kg)	0.9	2.0	0.25	0.43	0.56	0.42

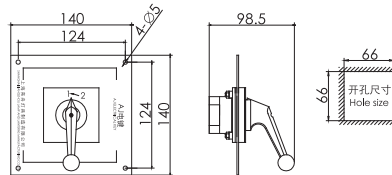
# AJ1/1A/2 | 莫氏电键 MORSE KEY



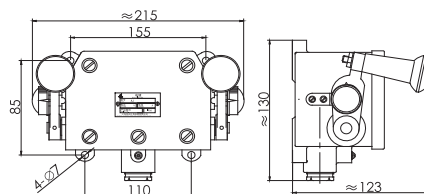
AJ1



AJ1A



AJ2



■ 适用范围及产品特性:

该产品适用于船舶交直流线路中控制莫氏信号灯或其它通讯设备。

■ 采用标准:

符合 ZBU62001-90。

■ The scope of application and products feature:

This products are suitable to used in DC or AC current to control Morse signal light or other communication device.


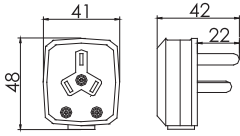

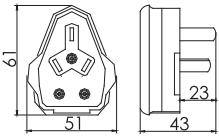

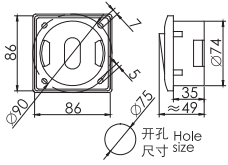

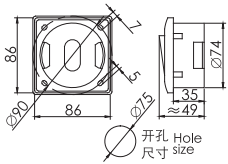

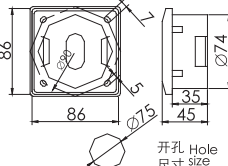

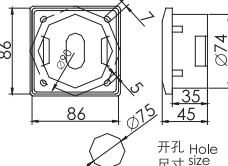

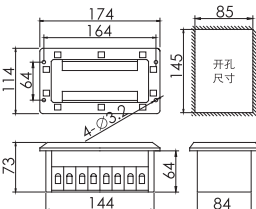
■ Adopt standard:

Conform to ZBU62001-90

型号 Type	电流 Current(A)	电压 Voltage ( V )	防护等级 Protection class	重量 Weight(Kg)	备注 Remark
AJ1	1.5	250	IP56	1.0	
AJ1A				0.8	嵌入式 Recessed
AJ2	1.5 ~ 2			1.6	


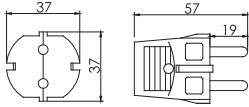

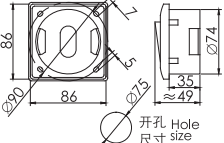

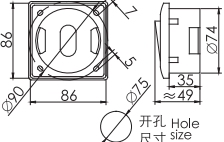

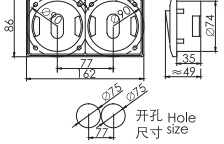

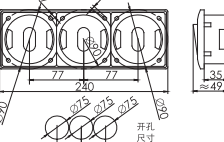

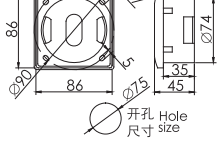

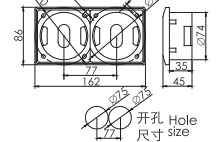

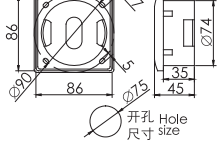

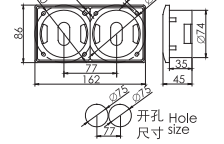
国标舱室开关、插头、插座、接线盒

GB SERIES OF CABIN SWITCH, PLUG, SOCKET AND JUNCTION BOX

		<b>型号 type</b> BCC1A-CT	
		电压 Voltage ( V ) 250	
		电流 Current(A) 10	
		防护等级 Protection class IP20	
		符合标准 Standard GB2099 / IEC884-1	
		<b>型号 type</b> BCC1B-CT	
		电压 Voltage ( V ) 250	
		电流 Current(A) 16	
		防护等级 Protection class IP20	
		符合标准 Standard GB2099 / IEC884-1	
		<b>型号 type</b> ABK1	
		电压 Voltage ( V ) 110/220	
		电流 Current(A) 16	
		防护等级 Protection class IP20	
		符合标准 Standard GB2099 / IEC884-1	
		<b>型号 type</b> ABK2	
		电压 Voltage ( V ) 110/220	
		电流 Current(A) 16	
		防护等级 Protection class IP20	
		符合标准 Standard GB2099 / IEC884-1	
		<b>型号 type</b> BCC1B-A	
		电压 Voltage ( V ) 250	
		电流 Current(A) 16	
		防护等级 Protection class IP20	
		符合标准 Standard DIN	
		<b>型号 type</b> BCC2-A	
		电压 Voltage ( V ) 250	
		电流 Current(A) 10	
		防护等级 Protection class IP20	
		符合标准 Standard DIN	
		<b>型号 type</b> JXE4 JXE8	
		电压 Voltage ( V ) 4 路 4Entries 250V 8 路 8Entries 250V	
		<b>型号 type</b> JXR10-4( 带熔断器 )With fuse JXR10-4( 带熔断器 )With fuse	
		电压 Voltage ( V ) 4 路 4Entries 220V/110V 8 路 8Entries 220V/110V	
		电流 Current(A) 10	
		防护等级 Protection class IP20	
		符合标准 Standard GB2099 / IEC884-1	

欧标舱室开关、插头、插座

EUROPEAN STANDARD CABIN SWITCHES PLUGS SOCKETS

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防护等级 Protection class	IP20												
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Sound annunciator is an important and simple tool for communication and alarm on ships. It can send out special signal intime to indicate the occurrence of certain abnormal phenomenon, it is also used as marine telephone, communication device command alarm and other electrical appliances on ships .





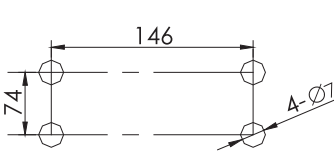
■ **Main technical performances:**

Suitable environmental temperature:  $-25^{\circ} \sim +55^{\circ}$  ; it can reliably work the power voltage ranges within  $\pm 15\%$  for DC current,  $+6\% \sim -10\%$  for AC current of its rated voltage, and its sound intensity will not lower than the value stipulated. The protection class IP56. The cable outside diameter is  $\varnothing 14 \sim \varnothing 16$ .

音响信号器是船上重要而简单的联络、报警工具。可及时的发出特种信号，报告某种异常现象的发生。同时也是船上电话、通讯设备、时令钟及其它电器设备的配套仪器。

■ **主要技术性能:**

适用环境温度  $-25^{\circ} \sim +55^{\circ}$  ; 电源电压在额定值: 直流  $\pm 15\%$ , 交流  $+6\% \sim -10\%$  的范围内发生变化时, 能可靠的工作。其音响强度不小于规定值; 防护等级: IP56; 电缆外径为  $\varnothing 14 \sim \varnothing 16$ 。

产品名称 Name	型号 Type	电压 (V) Voltage	电流 (A) Current	音响强度 Sound intensity	重量 (Kg) Weight			
直流断式电铃 DC power-fai lelectric bell	YLK-24Z	24	0.1	86dB	1.7			
	YLK-110Z	110	0.05					
	YLK-220Z	220	0.03					
直流短接式电铃 DC short-connect electric bell	YLB-24J	24	-	82dB			2.0	
	YLB-110J	110	-					
	YLB-220J	220	-					
交流电铃 AC electric bell	YL-24Z	24	0.15	92dB	2.0			
	YL-110Z	110	0.08					
	YL-220Z	220	0.04					
直流警钟 DC alarm bell	YZ-24J	24	0.1	82dB			2.0	
	YZ-110J	110	0.05					
	YZ-220J	220	0.03					
交流警钟 AC alarm bell	YZ-24Z	24	0.15	82dB	2.0			
	YZ-110Z	110	0.08					
	YZ-220Z	220	0.04					
安装尺寸 Dimension								

## 船用音响信号系列

## SERIES OF MARINE SOUND SIGNALS

产品名称 Name	型号 Type	电压 (V) Voltage	电流 (A) Current	音响强度 Sound intensity	重量 (Kg) Weight	
直流电铃 DC electric bell	YL120-24Z	24	0.3	85dB	2.0	
	YL120-110Z	110	0.1			
	YL120-220Z	220	0.05			
交流电铃 AC electric bell	YL120-24J	24	0.2			
	YL120-110J	110	0.1			
	YL120-220J	220	0.05			
直流信号灯电铃 DC electric bell for signal light	Y LX120-24Z	24	0.8	95dB	2.1	
	Y LX120-110Z	110	0.3			
	Y LX120-220Z	220	0.2			
交流信号灯电铃 AC electric bell for signal light	Y LX120-24J	24	0.8			
	Y LX120-110J	110	0.4			
	Y LX120-220J	220	0.3			
直流电铃 DC electric bell	YL200-24Z	24	0.3	95dB	2.75	
	YL200-110Z	110	0.1			
	YL200-220Z	220	0.05			
交流电铃 AC electric bell	YL200-24J	24	0.2			
	YL200-110J	110	0.1			
	YL200-220J	220	0.05			
直流信号灯电铃 DC electric bell for signal light	Y LX200-24Z	24	0.8	95dB	2.85	
	Y LX200-110Z	110	0.3			
	Y LX200-220Z	220	0.2			
交流信号灯电铃 AC electric bell for signal light	Y LX200-24J	24	0.8			
	Y LX200-110J	110	0.4			
	Y LX200-220J	220	0.3			
安装尺寸 Dimension						

船用音响信号系列

SERIES OF MARINE SOUND SIGNALS

产品名称 Name	型号 Type	电压 (V) Voltage	电流 (A) Current	音响强度 Sound intensity	重量 (Kg) Weight	
直流信号灯电铃 DC electric bell for signal light	YLX-24Z	24	0.6	92dB	3.4	
	YLX-110Z	110	0.2			
	YLX-220Z	220	0.1			
交流信号灯电铃 AC electric bell for signal light	YLX-24J	24	0.5	82dB	3.3	
	YLX-110J	110	0.15			
	YLX-220J	220	0.1			
直流电铃 - 鸣音器 DC electric bell- sounder	YLM-24Z	24	0.2	92dB	3.8	
	YLM-110Z	110	0.1			
	YLM-220Z	220	0.06			
交流电铃 - 鸣音器 AC electric bell- sounder	YLM-24J	24	0.3	82dB	3.7	
	YLM-110J	110	0.1			
	YLM-220J	220	0.05			
直流警钟 - 鸣音器 DC alarm bell- sounder	YZM-24Z	24	0.2	92dB	4.3	
	YZM-110Z	110	0.1			
	YZM-220Z	220	0.06			
交流警钟 - 鸣音器 AC alarm bell- sounder	YZM-24J	24	0.3	82dB	4.1	
	YZM-110J	110	0.1			
	YZM-220J	220	0.05			
直流鸣音器 DC sounder	YM-24Z	24	0.1	92dB	1.8	
	YM-110Z	110	0.05			
	YM-220Z	220	0.03			
交流鸣音器 AC sounder	YM-24J	24	0.15			
	YM-110J	110	0.08			
	YM-220J	220	0.04			
安装尺寸 Dimension					<p>交流、直流鸣音器 AC、DC sounder</p> 	



灯罩、网罩

LAMPSHADES, GUARDS

	代码 Code	792801	
	名称 Name	S57 灯罩 Lampshade	
	材料 Material	玻璃 Glass	
	颜色 Color	明 Transparent	
	代码 Code	792802	
	名称 Name	S80 灯罩 Lampshade	
	材料 Material	玻璃 Glass/ 聚碳酸酯 Polycarbonate	
	颜色 Color	明 Transparent/ 红 Red/ 绿 Green	
	代码 Code	792803	
	名称 Name	S90 灯罩 Lampshade	
	材料 Material	玻璃 Glass	
	颜色 Color	明 Transparent/ 红 Red/ 绿 Green/ 蓝 Blue/ 黄 Yellow/ 紫 Purple	
	代码 Code	792089	792090
	名称 Name	S120 灯罩 Lampshade	S135 灯罩 Lampshade
	材料 Material	玻璃 Glass	
	颜色 Color	明 Transparent, 红 Red	明 Transparent
	代码 Code	792063	
	名称 Name	S80 DS7-1M 网罩 guard	
	材料 Material	聚碳酸酯 Polycarbonate	
	颜色 Color	明 Transparent	
	代码 Code	792064	
	名称 Name	S90 DS7-2M 网罩 guard	
	材料 Material	聚碳酸酯 Polycarbonate	
	颜色 Color	明 Transparent	
	代码 Code	WZ-1	
	名称 Name	S90 DS7-2M-A 网罩 guard	
	材料 Material	钢质 Steel/ 不锈钢 Stainless steel/ 铜质 brass	
	颜色 Color	-	
	代码 Code	WZ-2	WZ-3
	名称 Name	S120 DS7-3M 网罩 guard	S135 DS7-4M 网罩 guard
	材料 Material	钢质 Steel / 不锈钢 Stainless steel/ 铜质 brass	
	颜色 Color	-	

灯座、接线端子

LAMP HOLDER、BAKELITE CONNECTING TERMINAL

	代码 Code	DZ101		代码 Code	DZ111
	名称 Name	铜质插口式灯座 brass jack lamp holder		名称 Name	铜质螺口式灯座 brass screw lamp holder
	型号 Type	B15d-0		型号 Type	E27-14
	代码 Code	DZ102		代码 Code	DZ112
	名称 Name	铜质插口式灯座 brass jack lamp holder		名称 Name	防爆螺口式瓷灯座 Explosion-proof porcelain screw lamp holder
	型号 Type	B15d-10		型号 Type	E27-200
	代码 Code	DZ103		代码 Code	DZ113
	名称 Name	航行灯座 Navigation light lamp holder		名称 Name	航行灯座 Navigation light lamp holder
	型号 Type	BAY15d		型号 Type	P28S
	代码 Code	DZ104		代码 Code	DZ114
	名称 Name	双丝插口式灯座 Double-line jack lamp holder		名称 Name	螺口式瓷灯座 Porcelain screw lamp holder
	型号 Type	B22d		型号 Type	E40-1
	代码 Code	DZ105		代码 Code	DZ115
	名称 Name	航行灯座 Navigation light lamp holder		名称 Name	螺口式瓷灯座 Porcelain screw lamp holder
	型号 Type	B22d-1		型号 Type	E40-NT
	代码 Code	DZ106		代码 Code	DZ116
	名称 Name	铜质插口式灯座 brass jack lamp holder		名称 Name	荧光灯座 Fluorescent light lamp holder
	型号 Type	B22d-14		型号 Type	G13-A
	代码 Code	DZ107		代码 Code	DZ117
	名称 Name	日式瓷灯座		名称 Name	荧光灯座 Fluorescent light lamp holder
	型号 Type	E27		型号 Type	G13-B
	代码 Code	DZ108		代码 Code	JX101
	名称 Name	螺口式瓷灯座 Porcelain screw lamp holder		名称 Name	胶木接线端子 Bakelite connecting terminal
	型号 Type	E27-1		型号 Type	CGD3-2
	代码 Code	DZ109		代码 Code	JX102
	名称 Name	螺口式瓷灯座 Porcelain screw lamp holder		名称 Name	胶木接线端子 Bakelite connecting terminal
	型号 Type	E27-2		型号 Type	CHT4
	代码 Code	DZ110		代码 Code	JX103
	名称 Name	防爆螺口树脂灯座 Explosion-proof resin screw lamp holder		名称 Name	瓷接线端子 Screw connecting terminal
	型号 Type	E27-4		型号 Type	ZYT08-1

	代码 Code	792893
	名称 Name	开关芯 Switch interior
	型号 Type	1133
	代码 Code	792825
	名称 Name	开关芯 Switch interior
	型号 Type	K-2MR
	代码 Code	792891
	名称 Name	插头芯 Plug interior
	型号 Type	1142/FS
	代码 Code	792821
	名称 Name	插头芯 Plug interior
	型号 Type	1MA
	代码 Code	792822
	名称 Name	插头芯 Plug interior
	型号 Type	2MA
	代码 Code	792892
	名称 Name	插座芯 Socket interior
	型号 Type	1141
	代码 Code	792823
	名称 Name	插座芯 Socket interior
	型号 Type	1M
	代码 Code	792824
	名称 Name	插座芯 Socket interior
	型号 Type	2M

## 光源

## ILLUMINANT

	名称 Name	灯座 Lamp holder	电压 (V)Voltage 功率 ( W ) Power	备注 Remark
	白炽灯泡 Incandescent bulb	E27	24V/15W	CKS21
	航行灯泡 Navigation bulb		220V/100W/65W/60W/40W/25W. 110V/100W/65W 24V/60W/40W/25W	—
	白炽聚光灯泡 Incandescent light bulbs	E40	220V/1000W; 110V/1000W/300W	TG3
	反射灯泡 Reflecting bulbs		220V/500W/300W ;110V/300W	TG64
	自镇流汞灯泡 Self-ballast mercury light		220V/500W 110V/500W	TG7
	高压钠灯泡 High- pressure sodium bulb		220V/1000W/400W/250W 110V/1000W	投光灯 Spot light
	金属卤化物灯泡 Metal halide lamp		220V/1000W/400W/250W 110V/500W	
	白炽灯泡 Incandescent bulb		220V/500W/300W 110V/500W/300W	TG1B/TG2B
	航行灯泡 Navigation bulb		B15d	24V/30W/15W
	白炽灯泡 Incandescent bulb	220V/15W ;24V/25W/13W, 6V/5W		应急灯 Emergency light
	航行灯泡 Navigation bulb	Bay15d	220V/65W; 24V/60W/25W 12V/25W;	—
	航行灯泡 Navigation bulb	B22d	220V/65W/25W 110V/65W 24V/60W	—
	航行灯泡 Navigation bulb	P28s	110V/65W 24V/60W	—
	管型卤钨灯泡 Tube type halogen tungsten lamp	R7S	220V/1000W/500W/300W	投光灯 Spot light
	卤钨灯泡 Tungsten halogen lamp	GX9.5	220V/2000W/1000W	
	卤钨灯泡 Tungsten halogen lamp	TG8/CXD8	24V/200W/60W 12V/60W	—

填料函 / 镇流器  
GLAND/BALLAST



型号 Type: PG  
名称 Name: 尼龙填料函 Nylon gland



型号 Type: PG  
名称 Name: 铜质填料函 Brass gland



型号 Type: LT810  
名称 Name: 铜质填料函 Brass gland



型号 Type: LT811  
名称 Name: 防爆铜质填料函 Explosion-proof brass gland



8W/15W/20W/30W 镇流器 Ballast  
电压 Voltage: 220V/50 ~ 60HZ 110V/60HZ



40W 镇流器 Ballast  
电压 Voltage: 220V/50 ~ 60HZ 110V/60HZ

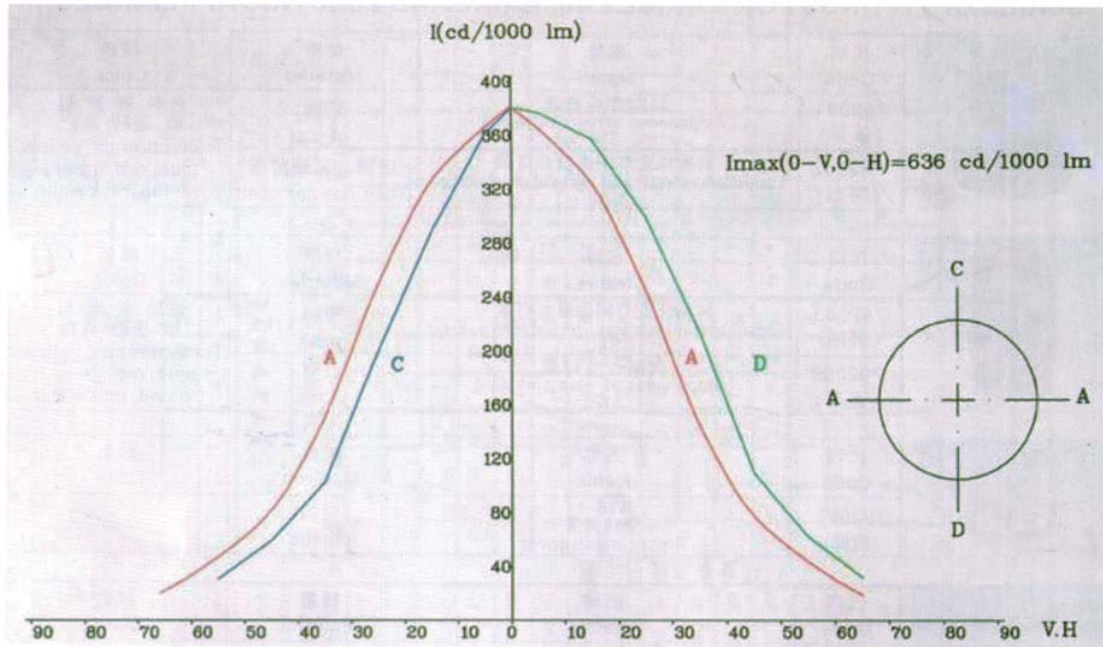


400W 镇流器 Ballast  
电压 Voltage: 220V/50 ~ 60HZ 110V/60HZ

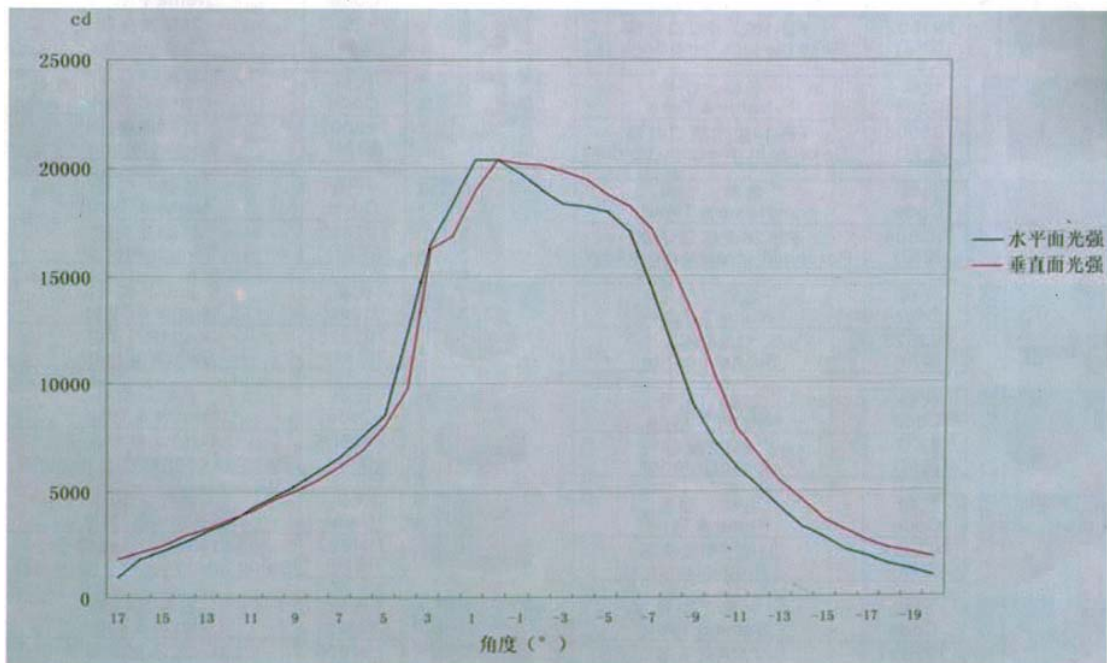


1000W 镇流器 Ballast  
电压 Voltage: 220V/50 ~ 60HZ 110V/60HZ

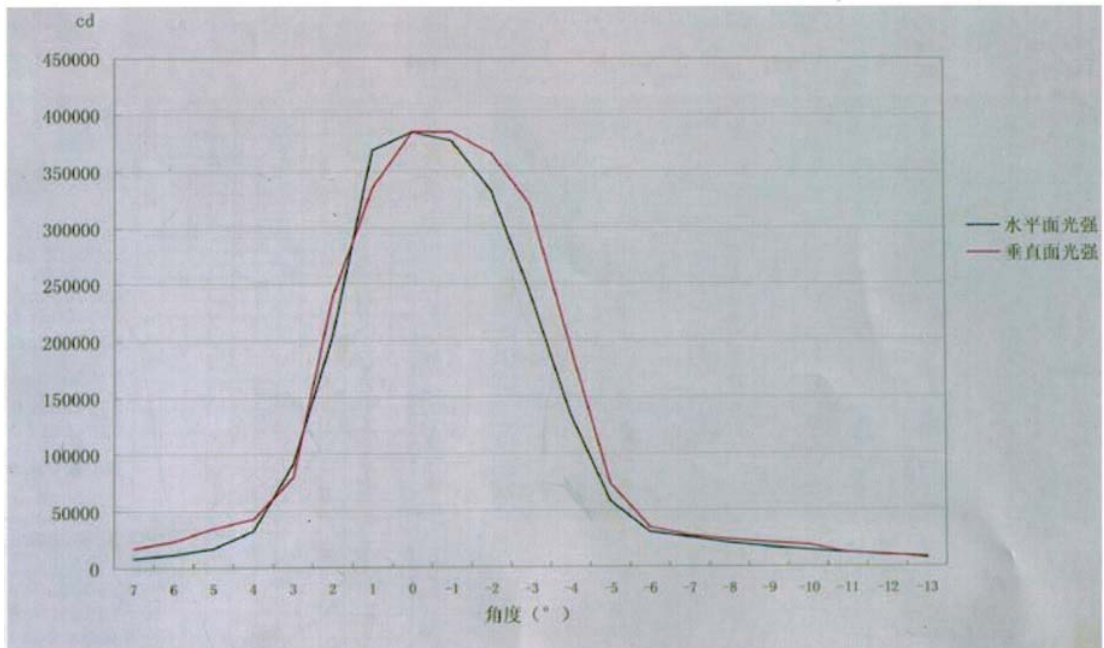
TG7



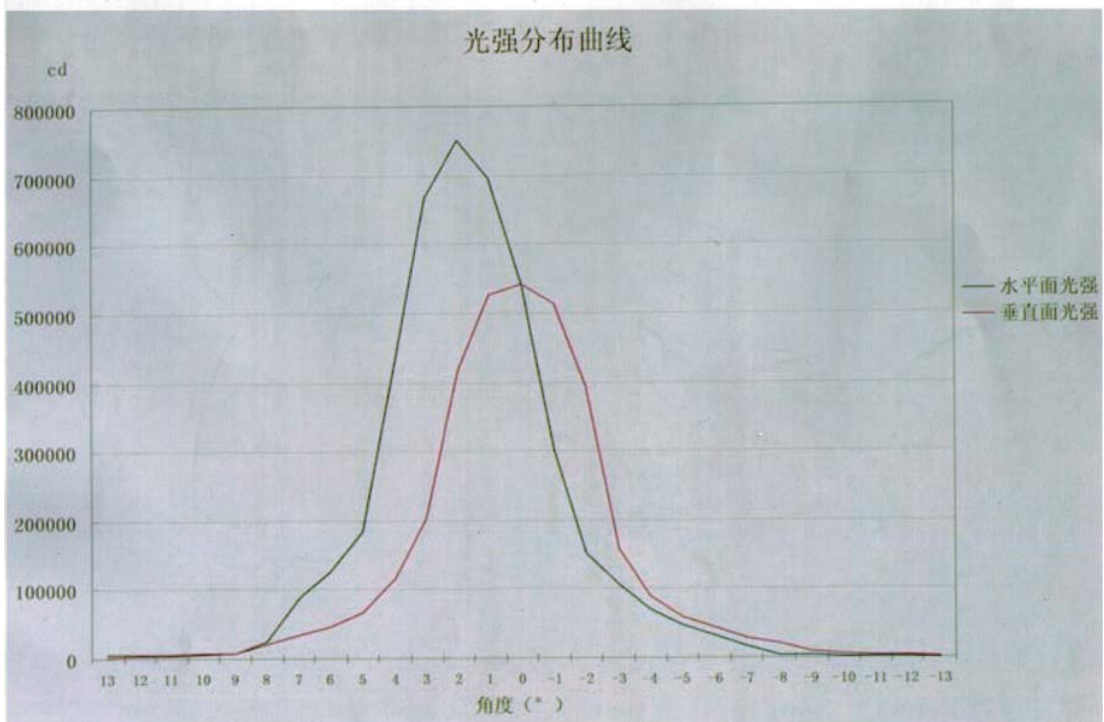
TG27



TG28

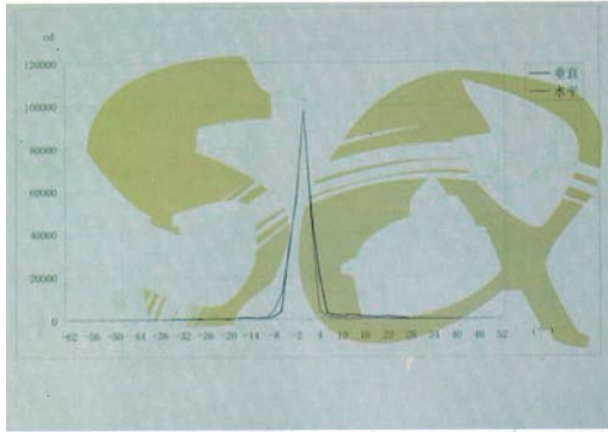


TZ5

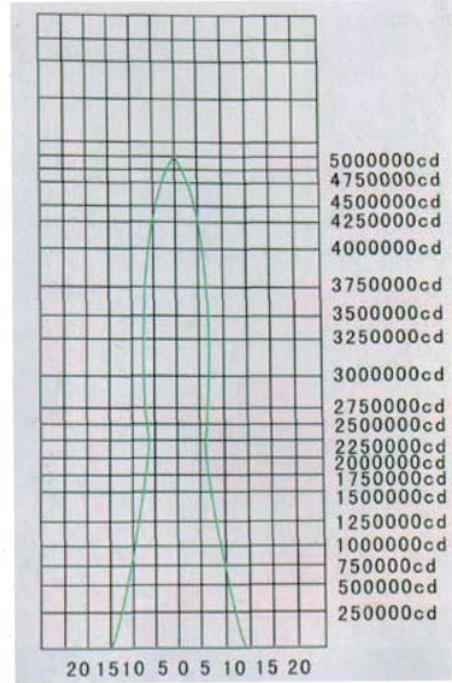


TG3

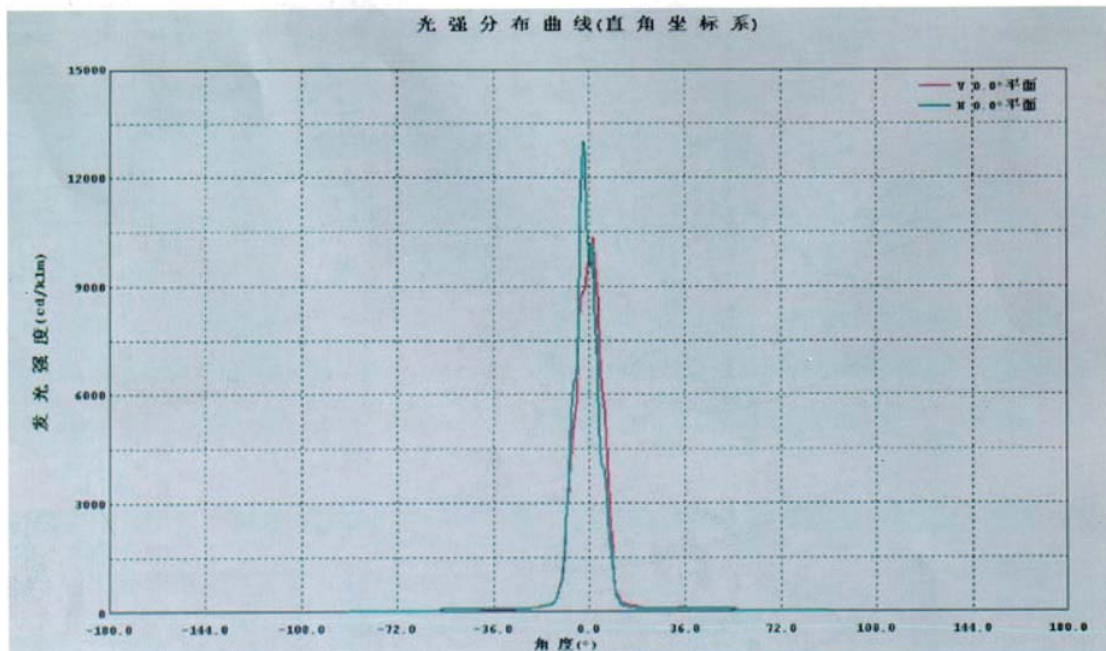
TG3



TZ1

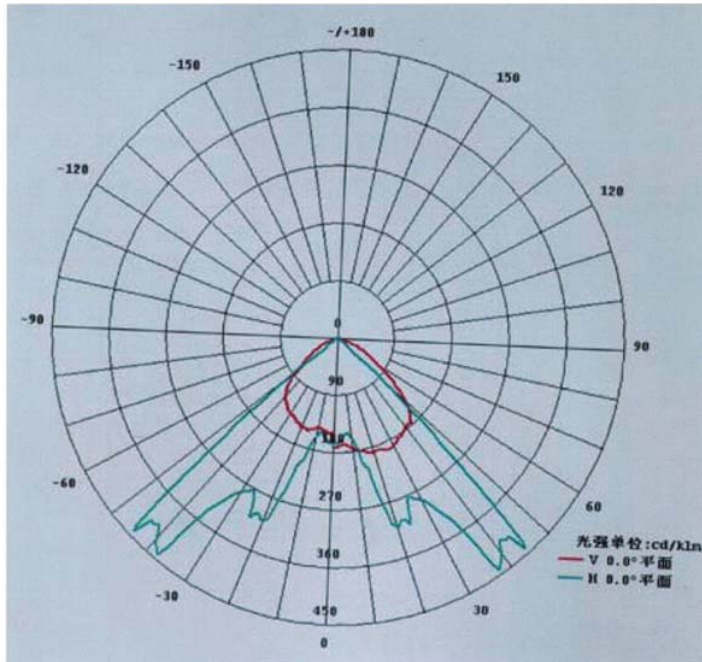


TG8





TG24



TG30

