



Customs Union CU–TR Approval



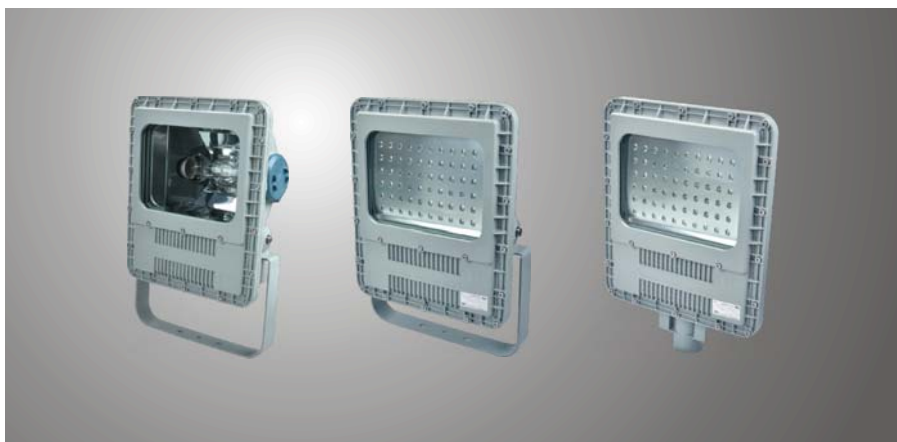
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**M0878/LED Industrial floodlight  
(street light fittings)**



2017

**Descriptions:**

CZ0878d Explosion-proof floodlight have two types of enclosure, the first one houses metal halide, high pressure sodium, or electromagnetic energy saving lamps and ballast, trigger and other electronic components. A removable side cover designed to facilitate easy lamp replacement. The second one is LED version housing LED light source and power supply module. LED version can be used for floodlight or street lamp.

- IECEx & ATEX certified.
- It is manufactured from cast aluminum alloy with surface epoxy powder coated which has good corrosion-proof performance.
- The bulbs of metal halide lamp and high pressure sodium vapor lamp have the function of shockproof protection.
- The lamp cover is toughened glass.
- High degree of protection IP66.
- Easy installation and maintenance.
- The terminal box is wired from down side, suitable for rubber or armoured cables.

Zone 1 and zone 2    Zone 21 and zone 22



## • Main technical data:

Certification | Ex mark | Meet the standard

|                                  |                                                               |                |
|----------------------------------|---------------------------------------------------------------|----------------|
| <b>China:</b> GYB16.1883X        | Ex d e II B T* Gb Ex tD A21 IP66 T*°C                         | GB3836 GB12476 |
| <b>IECEX:</b> IECEx CML 16.0113X | Ex db eb op is II B T* Gb Ex tb op is III C T*°C Db           | IEC60079       |
| <b>ATEX:</b> CML 16ATEX1337X     | Ex II 2GD Ex db eb op is II B T* Gb Ex tb op is III C T*°C Db | EN60079        |

Intended use: Can be used in zone 1 and zone 2  
Can be used in zone 21 and zone 22  
Degree of protection: IP66  
Rated voltage: 110V~277V AC 50/60Hz  
Ambient temperature: -20°C < Ta < +40°C/+55°C  
Light source: LED  
Colour temperature: 5700K  
Power factor: > 0.95  
terminal: L1, N cage type terminal 2 × 1~2.5mm<sup>2</sup>, PE terminal: 2 × 2.5~6mm<sup>2</sup>  
Cable entry: (Standard configuration) Moulded plastic 1 × M25 × 1.5, Outside diameter: Φ8-17mm  
Moulded plastic 1 × M25 × 1.5 stopping plug  
Conformity to: CE 2460

## • Order specifications:

| <br>B—Floodlight type lamp      | Power | Luminous flux<br>(lm) | Temperature class* |      |        |       | Weight<br>(kg) | Order No.              |
|--------------------------------------------------------------------------------------------------------------------|-------|-----------------------|--------------------|------|--------|-------|----------------|------------------------|
|                                                                                                                    |       |                       | Ta≤40℃             |      | Ta≤55℃ |       |                |                        |
|                                                                                                                    |       |                       | Gas                | Dust | Gas    | Dust  |                |                        |
| <br>F—Street type lamp          | 120W  | 10311                 | T5                 | T90℃ | T4     | T105℃ | 21kg           | CZ0878d/B-LED120W-07-B |
|                                                                                                                    | 160W  | 14210                 | T5                 | T90℃ | T4     | T105℃ | 21.5kg         | CZ0878d/B-LED160W-07-B |
|                                                                                                                    | 200W  | 17259                 | T5                 | T90℃ | T4     | T105℃ | 22kg           | CZ0878d/B-LED200W-07-B |
|                                                                                                                    | 120W  | 10483                 | T5                 | T90℃ | T4     | T105℃ | 18kg           | CZ0878d/F-LED120W-07-B |
|                                                                                                                    | 160W  | 14510                 | T5                 | T90℃ | T4     | T105℃ | 18.4kg         | CZ0878d/F-LED160W-07-B |
|                                                                                                                    | 200W  | 17075                 | T5                 | T90℃ | T4     | T105℃ | 19kg           | CZ0878d/F-LED200W-07-B |
| The mounting ways of the light fittings ←<br>B—Floodlight type lamp<br>F—Street type lamp<br>Code of cable gland ← |       |                       |                    |      |        |       |                |                        |

## • Code of cable gland

| Code | Specification                                                                                                                             | Cable diameter |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| B    | One moulded plastic M25 × 1.5 cable gland, one moulded plastic M25 × 1.5 stopping plug                                                    | Φ8-17mm        |
| C    | One brass CZ0221/M25 × 1.5 metal cable gland, one moulded plastic M25 × 1.5 stopping plug                                                 | Φ8-17mm        |
| D    | Two moulded plastic M25 × 1.5 cable glands                                                                                                | Φ8-17mm        |
| E    | Two brass CZ0221/M25 × 1.5 metal cable glands                                                                                             | Φ8-17mm        |
| F    | One brass CZ0227/M25 × 1.5-G <sup>3</sup> / <sub>4</sub> " increasd safety metal cable gland, one moulded plastic M25 × 1.5 stopping plug | Φ11-15mm       |
| G    | Two brass CZ0227/M25 × 1.5-G <sup>3</sup> / <sub>4</sub> " increasd safety metal cable glands                                             | Φ11-15mm       |
| H    | One brass CZ0226/M25 × 1.5-(G02) increasd safety metal cable gland (stuffing box), one moulded plastic M25 × 1.5 stopping plug            | Φ11.5-16mm     |
| I    | Two brass CZ0226/M25 × 1.5-G02 increasd safety metal cable glands (stuffing box)                                                          | Φ11.5-16mm     |



## CZ0878d Explosion-proof floodlight light fittings



### • Main technical data:

Certification | Ex mark | Meet the standard

|                                 |                                                     |                |
|---------------------------------|-----------------------------------------------------|----------------|
| <b>China:</b> GYB16.1883X       | Ex db II B T* Gb Ex tD A21 IP66 T*°C                | GB3836 GB12476 |
| <b>IECE:</b> IECEx CML 16.0113X | Ex db eb op is II B T* Gb Ex tb op is III C T*°C Db | IEC60079       |
| <b>ATEX:</b> CML 16ATEX1337X    | Ex db eb op is II B T* Gb Ex tb op is III C T*°C Db | EN60079        |

Intended use: Can be used in zone 1 and zone 2

Can be used in zone 21 and zone 22

Degree of protection: IP66

Rated voltage: 220V AC, 230V AC, 240V AC 50Hz, 60Hz

Ambient temperature: -20°C ≤ Ta ≤ +40°C/+55°C

terminal: L1, N cage type terminal 2 × 1~2.5mm<sup>2</sup>, PE terminal: 2 × 2.5~6mm<sup>2</sup>

Cable entry: (Standard configuration) Moulded plastic 1 × M25 × 1.5, Outside diameter: Φ8-17mm

Moulded plastic 1 × M25 × 1.5 stopping plug

Conformity to: CE 2460

### • Order specifications:



| Light source<br>code                                    | Lampholder<br>code | Power | Temperature class* |       |        |       | Weight<br>(kg) | Order No.         |
|---------------------------------------------------------|--------------------|-------|--------------------|-------|--------|-------|----------------|-------------------|
|                                                         |                    |       | Ta≤40℃             |       | Ta≤55℃ |       |                |                   |
|                                                         |                    |       | Gas                | Dust  | Gas    | Dust  |                |                   |
| Electromagnetic<br>induction energy<br>-saving lamp- QL | /                  | 85W   | T5                 | T85℃  | T4     | T100℃ | 18.5kg         | CZ0878d-QL85W57-B |
| Meal halide lamp-J                                      | E40                | 250W  | T3                 | T150℃ | T3     | T165℃ | 22.5kg         | CZ0878d-J250W25-B |
|                                                         | E40                | 400W  | T3                 | T195℃ | n/a    | n/a   | 25.5kg         | CZ0878d-J400W25-B |
| High pressure<br>sodium<br>vapor lamp-N                 | E40                | 250W  | T3                 | T150℃ | T3     | T165℃ | 22.5kg         | CZ0878d-N250W25-B |
|                                                         | E40                | 400W  | T3                 | T185℃ | n/a    | n/a   | 25.5kg         | CZ0878d-N400W25-B |

Rated voltage

2 — 220V AC 5 — 220V ~ 240V AC ( For QL85W only )  
3 — 230V AC 6 — 230V/240V AC  
4 — 240V AC

Rated frequency

5 — 50Hz  
6 — 60Hz  
7 — 50/60Hz ( For QL85W only )

Code of cable gland

### • Code of cable gland

| Code | Specification                                                                                                                             | Cable diameter |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| B    | One moulded plastic M25 × 1.5 cable gland, one moulded plastic M25 × 1.5 stopping plug                                                    | Φ8-17mm        |
| C    | One brass CZ0221/M25 × 1.5 metal cable gland, one moulded plastic M25 × 1.5 stopping plug                                                 | Φ8-17mm        |
| D    | Two moulded plastic M25 × 1.5 cable glands                                                                                                | Φ8-17mm        |
| E    | Two brass CZ0221/M25 × 1.5 metal cable glands                                                                                             | Φ8-17mm        |
| F    | One brass CZ0227/M25 × 1.5-G <sup>3</sup> / <sub>4</sub> " increasd safety metal cable gland, one moulded plastic M25 × 1.5 stopping plug | Φ11-15mm       |
| G    | Two brass CZ0227/M25 × 1.5-G <sup>3</sup> / <sub>4</sub> " increasd safety metal cable glands                                             | Φ11-15mm       |
| H    | One brass CZ0226/M25 × 1.5-(G02) increasd safety metal cable gland (stuffing box), one moulded plastic M25 × 1.5 stopping plug            | Φ11.5-16mm     |
| I    | Two brass CZ0226/M25 × 1.5-G02 increasd safety metal cable glands (stuffing box)                                                          | Φ11.5-16mm     |

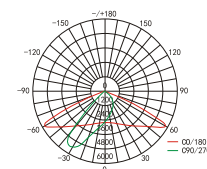


## CZ0878d Explosion-proof floodlight light fittings



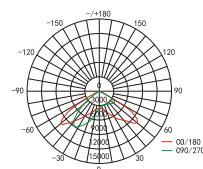
### • Luminous intensity distribution curve:

Luminous intensity unit: cd



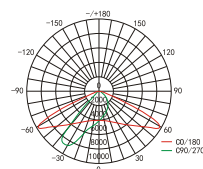
The average beam angle (50%) : 86.8°

**CZ0878d/F-LED120W**



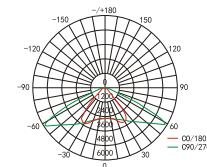
The average beam angle (50%) : 88.4°

**CZ0878d/F-LED160W**



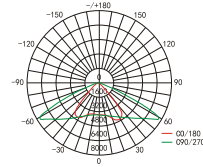
The average beam angle (50%) : 84.6°

**CZ0878d/F-LED200W**



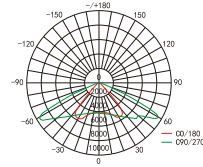
The average beam angle (50%) : 107.5°

**CZ0878d/B-LED120W**



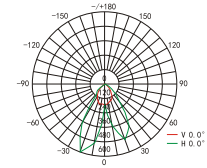
The average beam angle (50%) : 113.6°

**CZ0878d/B-LED160W**



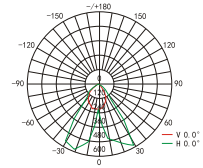
The average beam angle (50%) : 108.8°

**CZ0878d/B-LED200W**



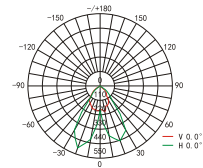
The average beam angle (10%) : 109.8°

**CZ0878d-N250W**



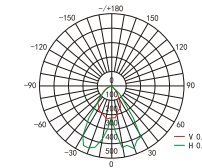
The average beam angle (50%) : 74.8°

**CZ0878d-N400W**



The average beam angle (50%) : 73.4°

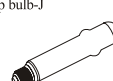
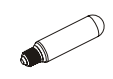
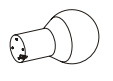
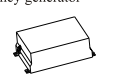
**CZ0878d-J250W**



The average beam angle (50%) : 72.5°

**CZ0878d-J400W**

### • Spare parts of light source:

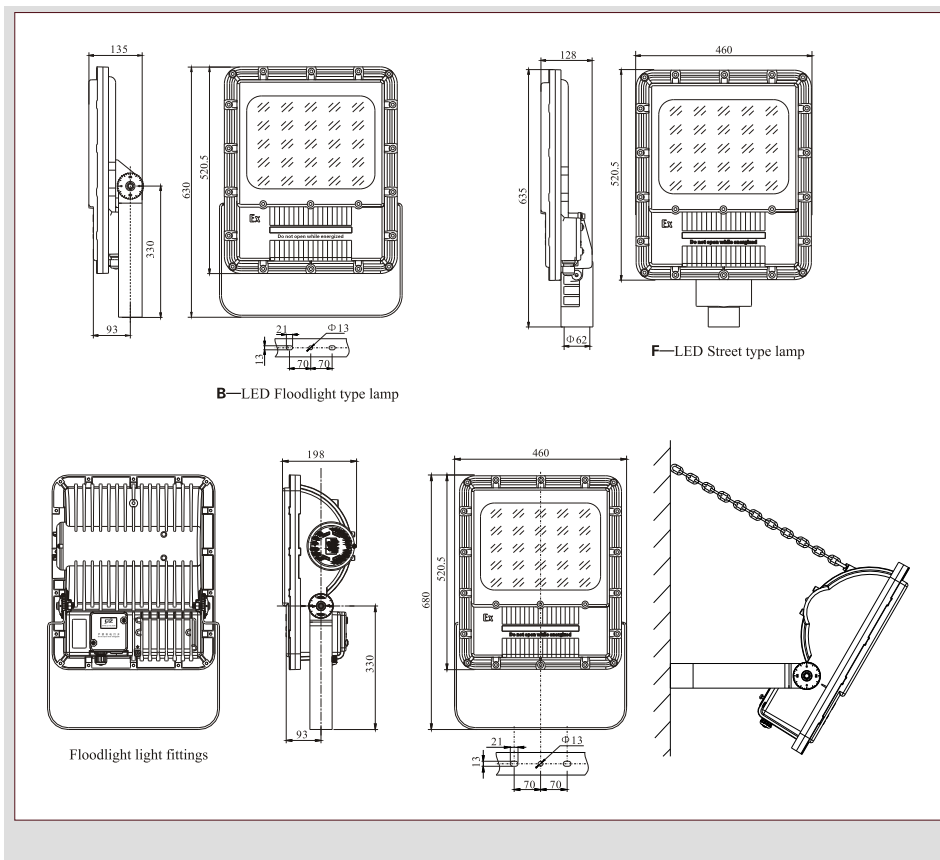
| Illustration                                                                                                                               | Power | Lampholder | Luminous flux | Unit  | Order No.          |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|---------------|-------|--------------------|
| Meal halide lamp bulb-J<br>                           | 250W  | E40        | 20500lm       | Piece | <b>HQI-T250/D</b>  |
|                                                                                                                                            | 400W  | E40        | 32000lm       | Piece | <b>HQI-BT400/D</b> |
| High pressure sodium vapor lamp bulb-N<br>            | 250W  | E40        | 27000lm       | Piece | <b>NAV - T 250</b> |
|                                                                                                                                            | 400W  | E40        | 48000lm       | Piece | <b>NAV - T 400</b> |
| Electromagnetic induction energy-saving lamp bulb<br> | 85W   |            | 5600lm        | Piece | <b>WJ85P</b>       |
| High frequency generator<br>                          | 85W   |            | /             | Piece | <b>HFG-85AC</b>    |



• Accessories of mounting accessories:

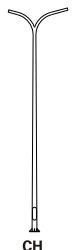
| Illustration                                                                                                  | Descriptions                                                                              | Unit  | Order No.      |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------|----------------|
| Chain type accessories<br>   | For M8 lifting eye bolt, the material is high quality steel with galvanization on surface | Set   | <b>D623</b>    |
| Bracket of vertical pole<br> |          | Piece | <b>D8723/1</b> |

• Outline dimensions:



• Accessories for street type lamp

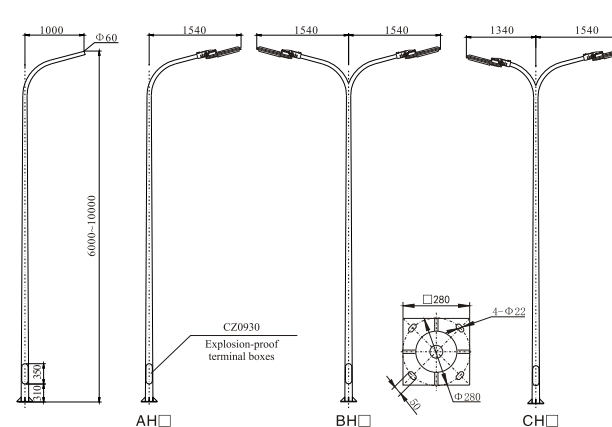
Order specification of the lamp pole of street light:

| Illustration                                                                        | Descriptions                                             | Order No.    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|--------------|
|  | Lamp pole of single arm                                  | <b>AH□+□</b> |
|  | Lamp pole of double arms with equal length               | <b>BH□+□</b> |
|  | Lamp pole of double arms with non-equal length           | <b>CH□+□</b> |
|                                                                                     | The height of lamp pole<br>6m<br>8m<br>10m<br>12m<br>15m |              |
|                                                                                     | The order No. of CZ0930 explosion-proof terminal box     |              |

• The order No. of CZ0930 explosion-proof terminal box

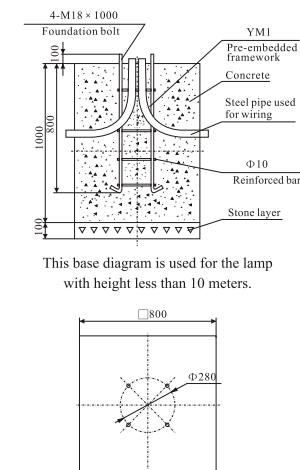
| Illustration                                                                        | Descriptions                         | Cable entries       |                                        |                                        | Order No. |
|-------------------------------------------------------------------------------------|--------------------------------------|---------------------|----------------------------------------|----------------------------------------|-----------|
|                                                                                     |                                      | The inlet cable     | The number of inlets                   | The number of outlets                  |           |
|  | Single lamp equipped with one fuse   | Rubber-coated cable | 2 × M32<br>Moulded plastic cable gland | 1 × M25<br>Moulded plastic cable gland | <b>10</b> |
|                                                                                     |                                      | Armoured cable      | 2 × M32<br>Brass cable gland           | 1 × M25<br>Brass cable gland           | <b>11</b> |
|                                                                                     | Double lamps equipped with two fuses | Rubber-coated cable | 2 × M32<br>Moulded plastic cable gland | 2 × M25<br>Moulded plastic cable gland | <b>20</b> |
|                                                                                     |                                      | Armoured cable      | 2 × M32<br>Brass cable gland           | 2 × M25<br>Brass cable gland           | <b>21</b> |

• Mounting ways and outline dimensions (mm):



The diagram of the lamp pole

• Base diagram:



This base diagram is used for the lamp with height less than 10 meters.