



## LED Explosion Proof Light

**ATEX & IECEx Certified LED Emergency Exit Light in Hazardous Area.**

- II 2 G Ex db IIB T6 Gb,
- II 2 G Ex db IIB+H2 T6 Gb
- II 2 D Ex tb IIIC T80°C Db





## Features And Benefits:

- High efficacy LED Source with long lifespan >50,000 hours
- 3-year performance warranty
- Vibration and shock resistant
- Low maintenance
- Continuous light, with built-in maintenance-free battery pack, automatically charging, and automatically switch to battery power supply when power source cut off or in emergency situation.
- LED light source, low power consumption, long service life.

## Applications:



Oil&Gas Exploration



Drilling



Oil Refinery



Petrochemical Plant



Power Plant



Pharmaceutical Plant



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### Standard & Certificate:

|                     |                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ex Mark:            | Gas:  II 2 G Ex db IIB T6 Gb, II 2 G Ex db IIB +H2 T6 Gb,<br>Dust:  II 2 D Ex tb IIIC T80°C Db                                                                                  |
| Certificate:        | <ul style="list-style-type: none"> <li>• ATEX Certification NO.: Pengding</li> <li>• IECEx Certification NO.: Pengding</li> <li>• CE</li> <li>• RoHS</li> </ul>                 |
| Executive Standard: | <ul style="list-style-type: none"> <li>• IEC60079-0,</li> <li>• IEC60079-1,</li> <li>• IEC60079-31</li> <li>• EN60079-0,</li> <li>• EN60079-1,</li> <li>• EN60079-31</li> </ul> |
| Classification:     | Group II, Zone 1 & 21 and 2 & 22                                                                                                                                                |

### Electrical & Photometric Features:

|                         |                                   |
|-------------------------|-----------------------------------|
| Light source:           | LED                               |
| Rated voltage:          | 100~300V AC/DC; 12, 24, 36V AC/DC |
| Emergency unit voltage: | DC3.0~3.5V                        |
| Emergency working time: | ≤180 min                          |
| Charging time:          | <24h                              |
| Frequency:              | 50/60Hz                           |
| Rated power:            | ≤6W                               |

### Mechanical Features:

| Mechanical Features:            |                     |                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight:                         |                     | Wall type (B): 7kg, Ceiling type (X1): 6.6kg, Ceiling type (X2): 6.8kg, Pendant type (G): 6.6kg                                                                                                                                                                                                                                                                                 |
| Ambient Temperature:            |                     | -40℃~+55℃/60℃                                                                                                                                                                                                                                                                                                                                                                   |
| Connecting Terminals:           |                     | 3X1.5~4mm <sup>2</sup> (L+N+PE)                                                                                                                                                                                                                                                                                                                                                 |
| Available cable outer diameter: |                     | φ10-φ14(mm)                                                                                                                                                                                                                                                                                                                                                                     |
| Cable Entries:                  |                     | NPT 3/4" (M20*1.5, M25*1.5,NPT1/2 are optional)                                                                                                                                                                                                                                                                                                                                 |
| IP Code:                        |                     | IP66,IP67                                                                                                                                                                                                                                                                                                                                                                       |
| Structure Material              | Enclosure           | Aluminum alloy enclosure, powder coated, industrial grey with dark lines texture (RAL7035)                                                                                                                                                                                                                                                                                      |
|                                 | Transparent cover   | Tempered glass, resistant to 4J impact                                                                                                                                                                                                                                                                                                                                          |
|                                 | Guide sign          | 9 signs, and customizable                                                                                                                                                                                                                                                                                                                                                       |
|                                 | Control module      | With overcharge, overdischarge, short circuit protection and others.                                                                                                                                                                                                                                                                                                            |
|                                 | Self-check function | With self-checking function, automatic discharge once per month, emergency working for 120seconds, and automatically back to main power supply.Annual self-checking function, automatically switch to emergency state and run over the battery, then automatically back to main power supply and charge the battery<br>The fault will automatically alert with light and sound. |
|                                 | Exposed fastener    | Stainless steel                                                                                                                                                                                                                                                                                                                                                                 |

## Production Definition

| K                                    | BDJ  | 11         | X                 | X                                 | X                                                                             | X                                                                   | X                | X                              |
|--------------------------------------|------|------------|-------------------|-----------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|--------------------------------|
| K-KHJ                                | Type | Design No. | Type              | Input Voltage                     | Guide sign                                                                    | Installation method                                                 | Number of inlets | Inlet thread specification     |
| Explosion-proof emergency exit light |      |            | H-IIB+H2<br>B-IIB | I-AC/DC100~300V<br>II-AC/DC12~36V | TypeA<br>TypeB<br>TypeC<br>TypeD<br>TypeE<br>TypeF<br>TypeG<br>TypeH<br>TypeI | B-Wall type<br>X1-Ceiling type<br>X2-Ceiling type<br>G-Pendant type | 2-Way<br>3-Way   | M20<br>M25<br>NPT1/2<br>NPT3/4 |

## Guide sign



KBDJ11-\*/A/\*



KBDJ11-\*/B/\*



KBDJ11-\*/C/\*



KBDJ11-\*/D/\*



KBDJ11-\*/E/\*



KBDJ11-\*/F/\*



KBDJ11-\*/G/\*

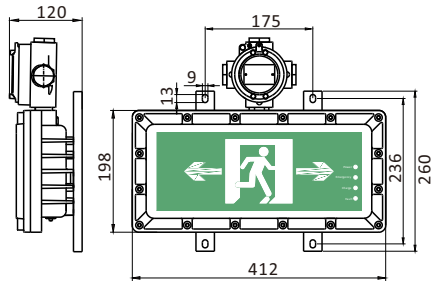


KBDJ11-\*/H/\*

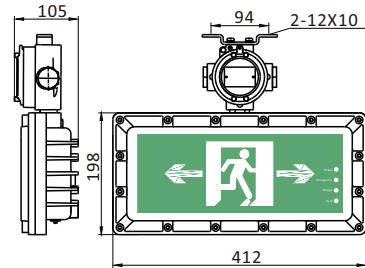


KBDJ11-\*/I/\*

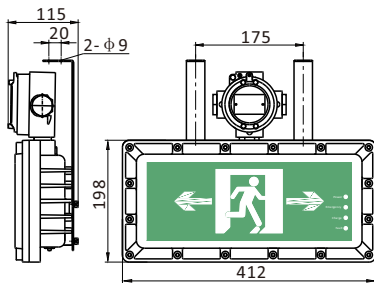
## Outline and Installation Dimension (Dimensions in mm)



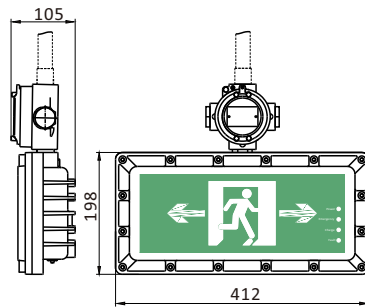
Wall type (B)



Ceiling type (X1)



Ceiling type (X2)



Pendant type (G)