



## LED Explosion Proof Light

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

- ⚡ II 2 G Ex db eb IIC T6 Gb
- ⚡ II 2 D Ex tb IIIC T80°C Db IP66





## Features And Benefits:

- High efficacy LED Source with long lifespan, L70 > 100,000 hours @ 25°C ambient
- 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





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

### Standard & Certificate:

|                     |                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ex Mark:            | Gas: ⚠ II 2 G Ex db eb IIC T6 Gb<br>Dust: ⚠ II 2 D Ex tb IIIC T80°C Db IP66                                                                                                                                                                                                                                                                                     |
| Certificate:        | <ul style="list-style-type: none"> <li>• ATEX Certification NO.: TÜV 15 ATEX 7673 X</li> <li>• IECEx Certification NO.: IECEx TUR 16.0028X</li> </ul>                                                                                                                                                                                                           |
| Executive Standard: | <ul style="list-style-type: none"> <li>• IEC 60079-0:2007</li> <li>• IEC 60079-1:2007</li> <li>• IEC 60079-7:2006</li> <li>• IEC 60079-28:2015</li> <li>• IEC 62321:2008</li> <li>• EN 60079-0:2009</li> <li>• EN 60079-1:2007</li> <li>• EN 60079-7:2007</li> <li>• CE</li> <li>• RoHS</li> <li>• EN 60598-1:2008+A11:2009</li> <li>• EN 55015:2013</li> </ul> |
| Classification:     | Group II, Zone 1 & 21 and 2 & 22                                                                                                                                                                                                                                                                                                                                |

### Electrical & Photometric Features:

|                                                |                                                  |
|------------------------------------------------|--------------------------------------------------|
| Lifespan:                                      | >100,000 hours                                   |
| Operating Voltage:                             | 220-240 VAC<br>311-339 VDC                       |
| Power:                                         | Normal:Max 12W;Emergency:5W                      |
| Battery Rated Capacity:                        | 2.2Ah                                            |
| Battery Type:                                  | Ni-Cd                                            |
| Rated Lifespan:                                | 500 Cycles                                       |
| Battery Back Up:                               | 180 Min                                          |
| Battery Charge Time:<br>(after full discharge) | Max: 24h                                         |
| Frequency:                                     | 50/60Hz                                          |
| Power Factor:                                  | >0.5                                             |
| Insulation Class:                              | I                                                |
| LED Driver:                                    | Over voltage protection/short circuit protection |

### Mechanical Features:

| Mechanical Features:  |                     |                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight:               |                     | 6.5kg                                                                                                                                                                                                                                                                                                                                                                  |
| Size:                 |                     | 465*187*124mm                                                                                                                                                                                                                                                                                                                                                          |
| Ambient Temperature:  |                     | -20°C~+55°C                                                                                                                                                                                                                                                                                                                                                            |
| Connecting Terminals: |                     | 3X1.0~4mm <sup>2</sup> (L+N+PE)                                                                                                                                                                                                                                                                                                                                        |
| Cable Entries:        |                     | 2XNPT 3/4" (M20*1.5, M25*1.5 optional)                                                                                                                                                                                                                                                                                                                                 |
| IP Code:              |                     | IP66                                                                                                                                                                                                                                                                                                                                                                   |
| Structure Material    | Enclosure           | Aluminum alloy enclosure, powder coated, industrial grey with dark lines texture (RAL7040)                                                                                                                                                                                                                                                                             |
|                       | Transparent cover   | Tempered glass, resistant to 7J impact                                                                                                                                                                                                                                                                                                                                 |
|                       | Guide sign          | 4 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. |
|                       | Exposed fastener    | Stainless steel                                                                                                                                                                                                                                                                                                                                                        |

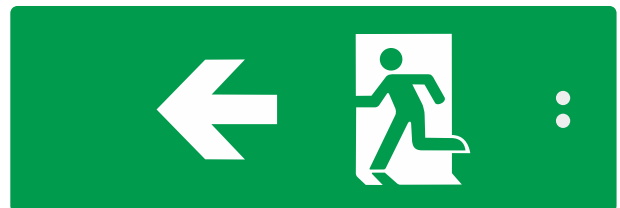
## Product Definition

| Ex                 | K     | SF                  | 12     | 465       | H7V7                 | CH           | -ON           | -X                   | -X                    | -E         | -G     |
|--------------------|-------|---------------------|--------|-----------|----------------------|--------------|---------------|----------------------|-----------------------|------------|--------|
| Type               | Brand | Series              | Power  | Length    | Candela Distribution | CCT(K)       | Type          | Type                 | Exit Sign Designation | Area       | Color  |
| Ex-Explosion Proof | K-KHJ | SF-Swordfish series | 12-12W | 465-465mm | H7V7(120°)           | CH-5700±300K | ON- Emergency | IIC- IIC Certificate | E<br>HD<br>HR<br>HL   | E- English | G-Grey |

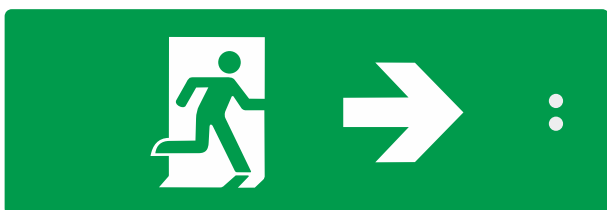
## Guide sign



E



HL



HR

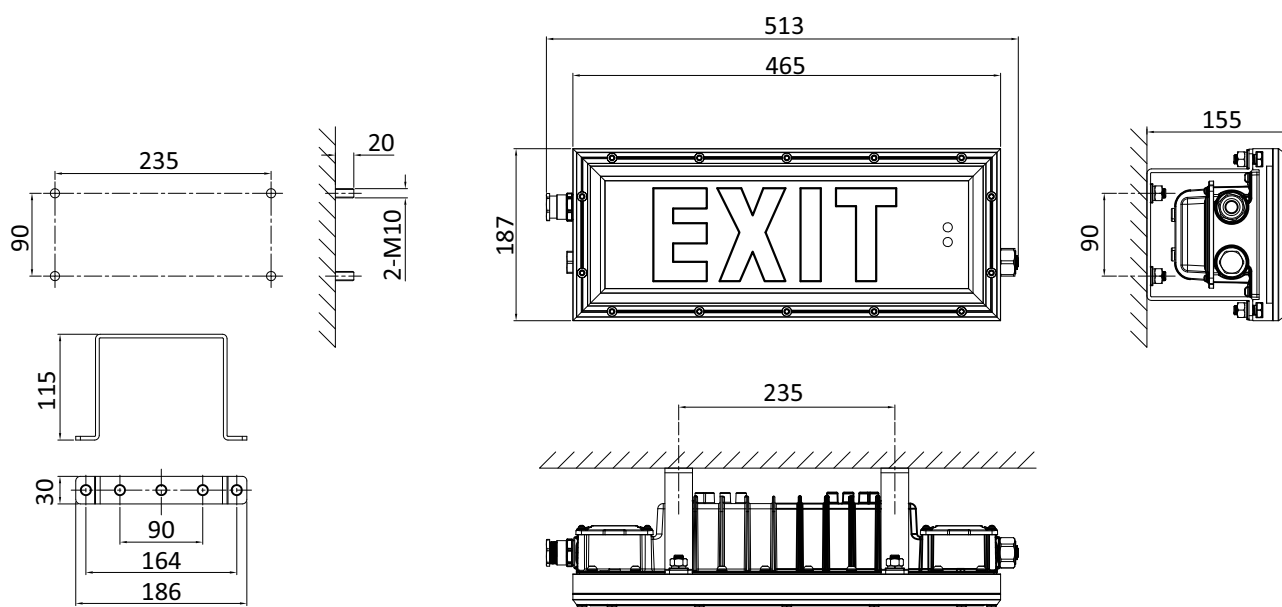


HD

## Installation Method

### Wall Mount:

(unit:mm)



### WS-SF-G

## Optional Parts

| No. | Installation accessories | Part No. | Picture                                                                             | Material | Weight(kg) | QTY | Remark     |
|-----|--------------------------|----------|-------------------------------------------------------------------------------------|----------|------------|-----|------------|
| 1   | Wall Bracket             | WS-SF-G  |  | Q235     | 1.6        | 1   | Wall Mount |