



## LED Explosion Proof Light

**ATEX & IECEx Certified LED Linear light in Hazardous Area.  
Swordfish Series**

⚡ 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
- 5-year performance warranty
- Low THD around 10%, Less interference
- 4KV/Line-Line 6KV/Line-Earth
- Robust aluminium housing and strong tempered glass
- Vibration and shock resistant
- Low maintenance

## Applications:



Oil&Gas Exploration



Drilling



Oil Refinery



Petrochemical Plant



Power Plant



Pharmaceutical Plant



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## LED Linear light

### 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> <li>• CE</li> <li>• ABS</li> <li>• RoHS</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |
| Executive Standard: | <ul style="list-style-type: none"> <li>• EN 55015:2013+A1:2015</li> <li>• EN 61547:2009</li> <li>• EN 61000-3-2:2014</li> <li>• EN 61000-3-3:2013</li> <li>• EN 60598-1:2015</li> <li>• EN 60598-2-5:2015</li> <li>• IEC 62321-4:2013</li> <li>• IEC 62321-5:2013</li> <li>• IEC 62321-6:2015</li> <li>• IEC 62321-7-1:2015</li> <li>• IEC 62321-7-2:2017</li> <li>• IEC 62321-8:2017</li> <li>• EN 60079-0:2012/A11:2013</li> <li>• EN 60079-7:2015</li> <li>• EN 60079-1:2014</li> <li>• EN 60079-31:2014</li> <li>• EN 60079-28:2015</li> </ul> |
| Classification:     | <ul style="list-style-type: none"> <li>• Group II Zone 1 &amp; 21 and 2 &amp; 22</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### Electrical & Photometric Features:

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Luminaire Efficacy: | 136.5lm/W                                                |
| Lifespan:           | >100,000 hours                                           |
| Operating Voltage:  | 100-277 VAC/24-48 VAC<br>10-30 VDC/24-48 VDC/141-392 VDC |
| Power(W):           | 18/36/48/56/72                                           |
| Frequency:          | 50/60Hz                                                  |
| Power Factor:       | >0.98                                                    |
| THD:                | <10%                                                     |
| CRI:                | >70                                                      |
| Insulation Class:   | I                                                        |
| Surge Protection:   | 4KV/6KV                                                  |
| LED Driver:         | Over voltage protection/short circuit protection         |

### Mechanical Features:

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Weight:               | 6.9Kg(0.6m)/11.5Kg(1.2m)                                   |
| Size:                 | 600*136*124mm(18W/36W/48W)/1200*136*124mm(36W/48W/56W/72W) |
| Ambient Temperature:  | -20°C--+55°C                                               |
| Connecting Terminals: | 3*1.0-4mm <sup>2</sup> (L+N+PE)                            |
| Cable Entries:        | 2XNPT 3/4" (M20*1.5, M25*1.5 are optional)                 |
| Earthing Protection:  | M4 (Internal & external earth bolts)                       |
| IP Code:              | IP66                                                       |
| Enclosure Material:   | Copper-free Aluminium                                      |
| Enclosure Colour:     | Grey RAL7040                                               |
| Coating:              | Epoxy powder coating                                       |
| Exposed Fastener:     | Stainless steel                                            |
| Protective Cover:     | Tempered glass, Stand 7J impact                            |



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## Production Definition

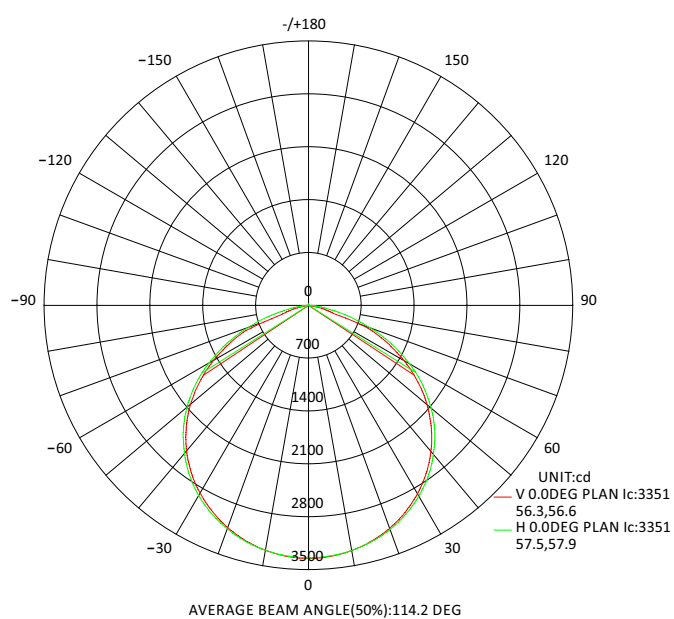
| Ex                 | SF    | K                   | XX                                             | XX                                                | XX                       | XX                   | XX                                                           | -U        | -IIC                 | -E         | -X     |
|--------------------|-------|---------------------|------------------------------------------------|---------------------------------------------------|--------------------------|----------------------|--------------------------------------------------------------|-----------|----------------------|------------|--------|
| Type               | Brand | Series              | Power                                          | Input Voltage                                     | Length                   | Candela Distribution | CCT(K)                                                       | Type      | Type                 | Area       | Color  |
| Ex-Explosion Proof | K-KHJ | SF-Swordfish series | 18-18W<br>36-36W<br>48-48W<br>56-56W<br>72-72W | Default-100-277VAC<br>A-24-48VAC/DC<br>B-10-30VDC | 600-600mm<br>1200-1200mm | H7V7(120°)           | WM-3000±300K<br>NH-4000±300K<br>NH-5000±300K<br>CH-5700±300K | U- Update | IIC- IIC Certificate | E- English | G-Grey |

## Ordering Information

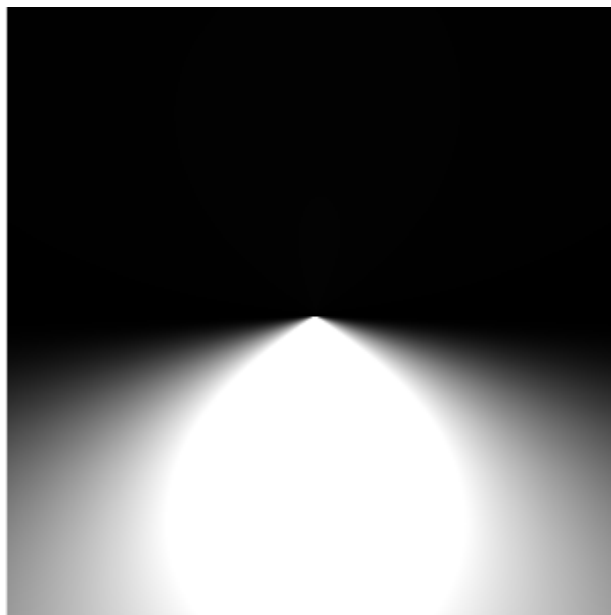
| P/N                           | Operating Voltage(V)       | Luminous Flux(lm) | Power(W) | Color Temp.   | CCT(K)   | Temp. Classification |
|-------------------------------|----------------------------|-------------------|----------|---------------|----------|----------------------|
| Ex-KSF18*600H7V7WM-U-IIC-E-G  | 100-277 AC<br>(141-392 DC) | 2268              | 18       | Warm white    | 3000±300 | T6                   |
| Ex-KSF18*600H7V7NH-U-IIC-E-G  |                            | 2457              | 18       | Natural white | 4000±300 |                      |
| Ex-KSF18*600H7V7NH-U-IIC-E-G  |                            | 2457              | 18       | Natural white | 5000±300 |                      |
| Ex-KSF18*600H7V7CH-U-IIC-E-G  |                            | 2457              | 18       | Cool white    | 5700±300 |                      |
| Ex-KSF36*600H7V7WM-U-IIC-E-G  |                            | 4536              | 36       | Warm white    | 3000±300 |                      |
| Ex-KSF36*600H7V7NH-U-IIC-E-G  |                            | 4914              | 36       | Natural white | 4000±300 |                      |
| Ex-KSF36*600H7V7NH-U-IIC-E-G  |                            | 4914              | 36       | Natural white | 5000±300 |                      |
| Ex-KSF36*600H7V7CH-U-IIC-E-G  |                            | 4914              | 36       | Cool white    | 5700±300 |                      |
| Ex-KSF48*600H7V7WM-U-IIC-E-G  |                            | 6048              | 48       | Warm white    | 3000±300 |                      |
| Ex-KSF48*600H7V7NH-U-IIC-E-G  |                            | 6552              | 48       | Natural white | 4000±300 |                      |
| Ex-KSF48*600H7V7NH-U-IIC-E-G  |                            | 6552              | 48       | Natural white | 5000±300 |                      |
| Ex-KSF48*600H7V7CH-U-IIC-E-G  |                            | 6552              | 48       | Cool white    | 5700±300 |                      |
| Ex-KSF36*1200H7V7WM-U-IIC-E-G |                            | 4536              | 36       | Warm white    | 3000±300 |                      |
| Ex-KSF36*1200H7V7NH-U-IIC-E-G |                            | 4914              | 36       | Natural white | 4000±300 |                      |
| Ex-KSF36*1200H7V7NH-U-IIC-E-G |                            | 4914              | 36       | Natural white | 5000±300 |                      |
| Ex-KSF36*1200H7V7CH-U-IIC-E-G |                            | 4914              | 36       | Cool white    | 5700±300 |                      |
| Ex-KSF48*1200H7V7WM-U-IIC-E-G |                            | 6048              | 48       | Warm white    | 3000±300 |                      |
| Ex-KSF48*1200H7V7NH-U-IIC-E-G |                            | 6552              | 48       | Natural white | 4000±300 |                      |
| Ex-KSF48*1200H7V7NH-U-IIC-E-G |                            | 6552              | 48       | Natural white | 5000±300 |                      |
| Ex-KSF48*1200H7V7CH-U-IIC-E-G |                            | 6552              | 48       | Cool white    | 5700±300 |                      |
| Ex-KSF56*1200H7V7WM-U-IIC-E-G |                            | 7056              | 56       | Warm white    | 3000±300 |                      |
| Ex-KSF56*1200H7V7NH-U-IIC-E-G |                            | 7644              | 56       | Natural white | 4000±300 |                      |
| Ex-KSF56*1200H7V7NH-U-IIC-E-G |                            | 7644              | 56       | Natural white | 5000±300 |                      |
| Ex-KSF56*1200H7V7CH-U-IIC-E-G |                            | 7644              | 56       | Cool white    | 5700±300 |                      |
| Ex-KSF72*1200H7V7WM-U-IIC-E-G |                            | 9072              | 72       | Warm white    | 3000±300 |                      |
| Ex-KSF72*1200H7V7NH-U-IIC-E-G |                            | 9828              | 72       | Natural white | 4000±300 |                      |
| Ex-KSF72*1200H7V7NH-U-IIC-E-G |                            | 9828              | 72       | Natural white | 5000±300 |                      |
| Ex-KSF72*1200H7V7CH-U-IIC-E-G |                            | 9828              | 72       | Cool white    | 5700±300 |                      |

Remarks: 1.\*Stands for Operating Voltage, including Default -AC-100~277V,A-AC/DC 24~48V,B-DC 10~30V.  
2.10-30VDC & 24-48V AC/DC are not suitable for 72W.

## Candela Distribution

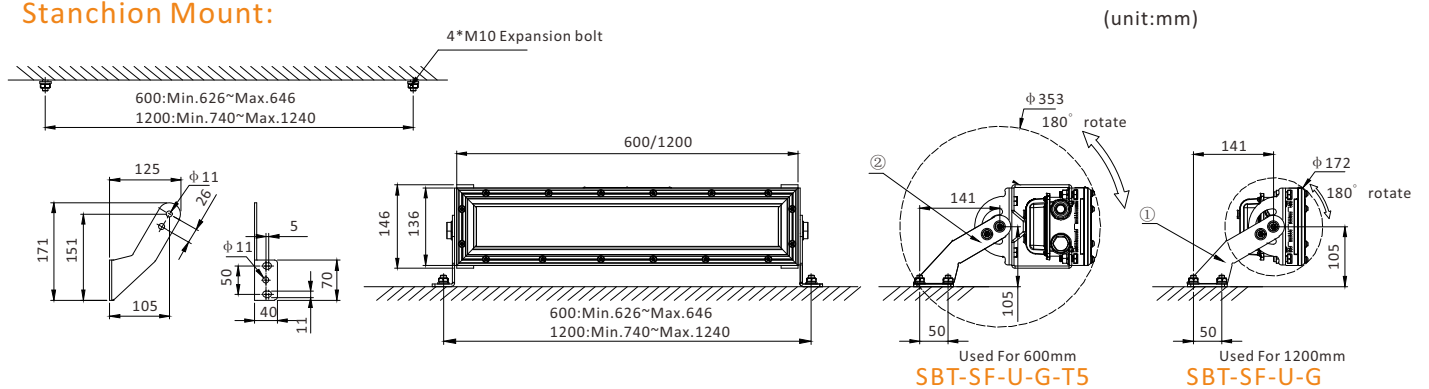


H7V7(120°)/High Efficacy LED Source

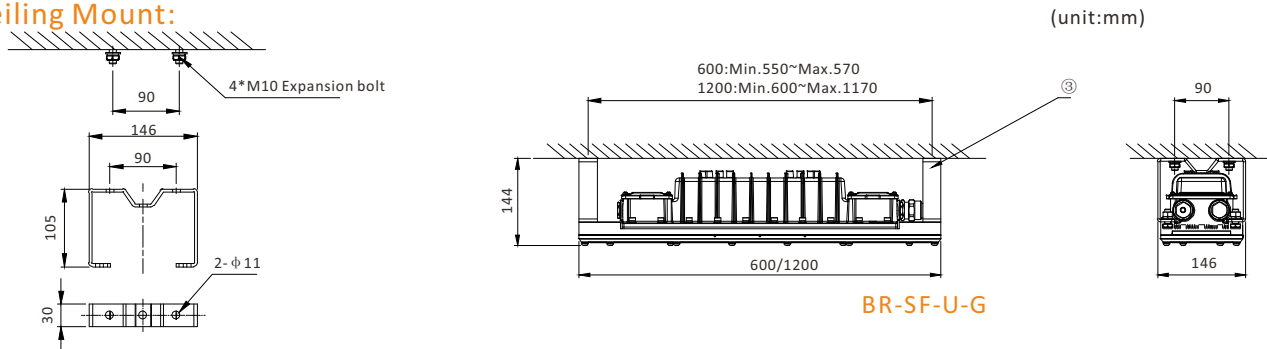


## Installation Method

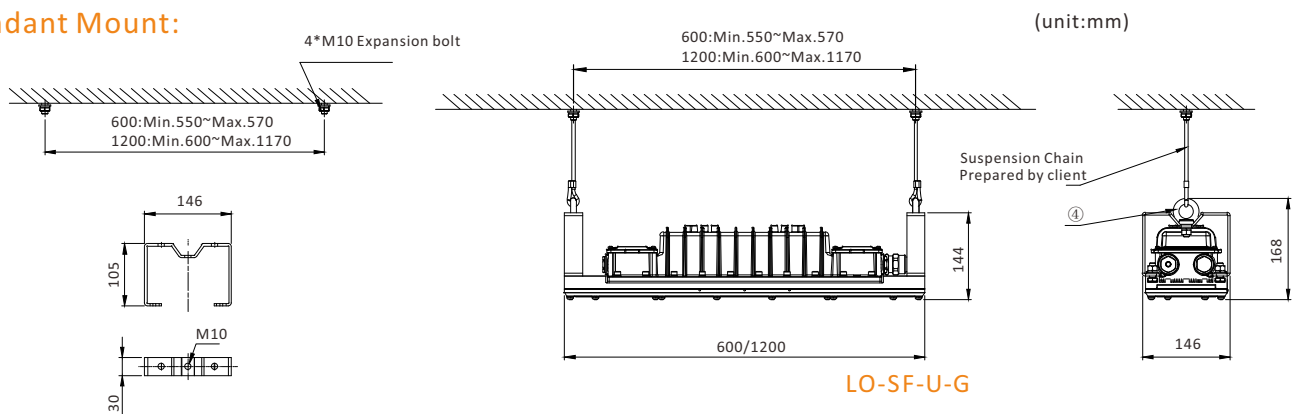
### Stanchion Mount:



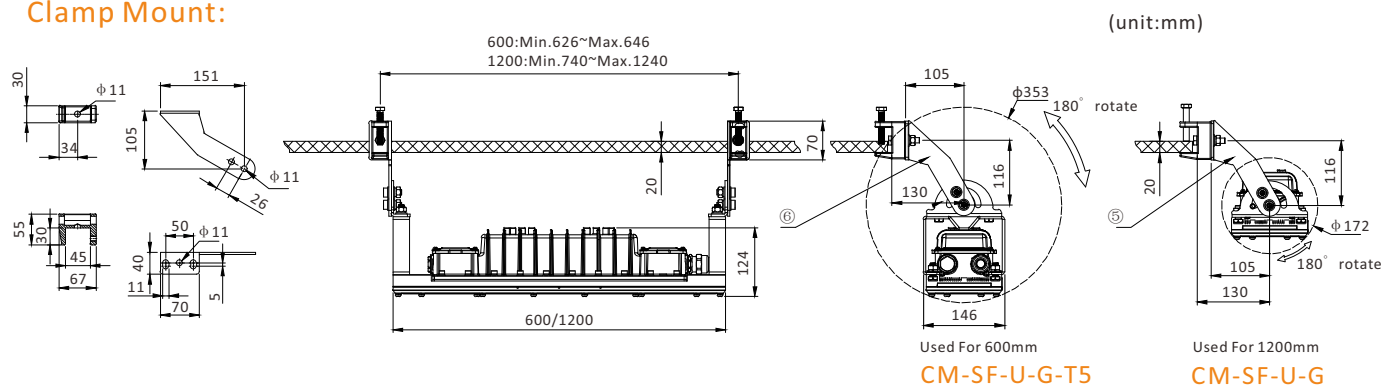
### Ceiling Mount:



### Pendant Mount:

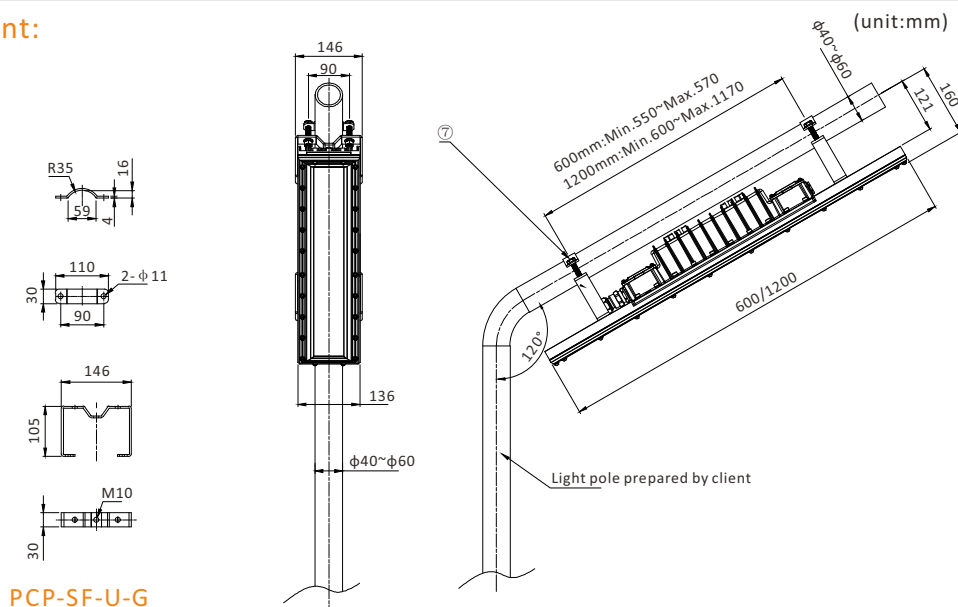


### Clamp Mount:



## Installation Method

### Pipe Clamp Mount:



## Optional Parts

| No. | Installation accessories | Part No.      | Picture                                                                             | Material | Weight(Kg) | QTY | Remark                                    |
|-----|--------------------------|---------------|-------------------------------------------------------------------------------------|----------|------------|-----|-------------------------------------------|
| 1   | Bracket                  | BR-SF-U-G     |  | Q235     | 0.8        | 2   | Ceiling Mount                             |
| 2   | Loop                     | LO-SF-U-G     |  | Q235     | 1.2        | 2   | Pendant Mount                             |
| 3   | Pipe Clamp               | PCP-SF-U-G    |  | Q235     | 1.8        | 2   | Pipe clamp                                |
| 4   | Stanchion bracket        | SBT-SF-U-G    |  | Q235     | 2.6        | 2   | Stanchion mount<br>Wall mount<br>(1200mm) |
| 5   | Clamp mount              | CM-SF-U-G     |  | Q235     | 3          | 2   | Clamp mount<br>(1200mm)                   |
| 6   | Stanchion bracket        | SBT-SF-U-G-T5 |  | Q235     | 3.4        | 2   | Stanchion mount<br>Wall mount<br>(600mm)  |
| 7   | Clamp mount              | CM-SF-U-G-T5  |  | Q235     | 3.8        | 2   | Clamp mount<br>(600mm)                    |