



Tree Frog Series

LED Explosion proof light



Ex d IIC (H₂)T6 Gb

★ **LED Explosion proof light**

★ INTRODUCTION



Features and benefits

1. Energy saving. Reduce the number of luminaires you need, providing excellent efficacy-more light where you need it.
2. Anti-glare, reduces glare in applications where the user may have direct visual contact with the light source.
3. Shock- and vibration-resistant- tempered glass, reduces the risk of premature failure.
4. OSRAM LED source. High efficacy lumen output and high CRI.
5. Driver module assembly -High efficiency LED drivers are designed to provide reliable operation in even the harshest environments
6. High-strength aluminum alloy housing, can endure 20J impact. Ip66, can be used wet locations-robust construction suitable corrosive applications.
7. Ambient temperature from -40°C to 55°C

Application :

- This product is mainly used in height 3-4 meters explosion proof location and remote spot lighting.
- Locations requiring continuous and consistent light levels in extreme ambient temperatures.
- Areas requiring frequent on-and-off of lights.
 1. Where flammable vapors, gases, ignitable dusts, fibers or flying are present; indoors or outdoors.
 2. Where extremely corrosive, wet, dusty, hot and cold conditions exist.
 3. Marine, wet locations and hose-down environments. Manufacturing plants; heavy industrial, chemical, petrochemical, pharmaceutical facilities; platforms; loading docks; tunnels; outdoor wall and stanchion mounted general area lighting.
- Group II, Zone 1 , 2.



1. Executive standard

- a. IEC 60079-0 Explosive atmospheres - Part 0: Equipment - General requirements.
- b. IEC 60079-1 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d".
- c. IEC 60598-1 Luminaires - Part 1: General requirements.



★ CHARACTERISTIC DETAILS



Anti-off designed screw to reduce the time for installation and maintenance.



Terminal compartment is isolated with the LED source compartment. Enhance isolation, ensure safety. Much easier for connection and maintenance.



Use high performance component which can work at -40°C to 55°C .



The LED is clung to the enclosure, which can make the heat sink very fast, lower the junction temp.

OSRAM LED source, high efficacy and lumen output.

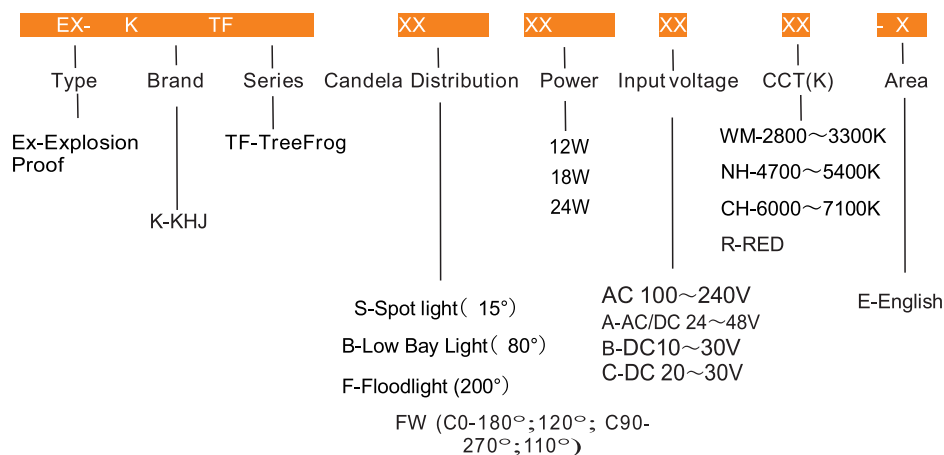


Explosion proof aluminum alloy enclosure, high performance of anti-impact. Can endure 20J impact.

★ PERFORMANCE PARAMETER



Product Definition



Electrical parameter

Product type	Rated input voltage(V AC)	Rated input voltage(VDC)	Rated input current(A)	Voltage frequency (Hz)	Rated power (W)	LED input current(ma)	PF
Ex- KTF12	100 ~ 240	/	0.07~0.15	50 /60	12	300	> 0.9
Ex- KTF12 A	24 ~ 48	24 ~ 48	0.5~1.5	/	12	300	/
Ex- KTF12 B	/	10 ~ 30	0.5~1.5	/	12	300	/
Ex- KTF18	100 ~ 240	/	0.1~0.2	50 /60	18	450	> 0.9
Ex- KTF18 A	24~ 8	24 ~ 48	0.8~2.5	/	18	450	/
Ex- KTF18 B	/	10 ~ 30	0.8~2.5	/	18	450	/
Ex- KTF24	100 ~ 240	/	0.15~0.35	50 /60	24	600	> 0.9
Ex- KTF24 A	24~ 8	24 ~ 48	1~3	/	24	600	/
Ex- KTF24 B	/	10 ~ 30	1~3	/	24	600	/

Photometric parameter

P/N	Color temp	CRI	CCT(K)	Luminous flux(lm)
Ex- KTF*12 (A/B) WM-E	Warm white	82	2800~3300	1100
Ex- KTF*12 (A/B) NH-E	Neutral white	82	4700~5400	1100
Ex- KTF*12 (A/B) CH-E	Cold white	70	6000~7100	1200
Ex- KTF*18 (A/B) WM-E	Warm white	82	2800~3300	1200
Ex- KTF*18 (A/B) NH-E	Neutral white	82	4700~5400	1450
Ex- KTF*18 (A/B) CH-E	Cold white	70	6000~7100	1600
Ex- KTF*24 (A/B) WM-E	Warm white	82	2800~3300	1800
Ex- KTF*24 (A/B) NH-E	Neutral white	82	4700~5400	2000
Ex- KTF*24 (A/B) CH-E	Cold white	70	6000~7100	2150

Candela Distribution

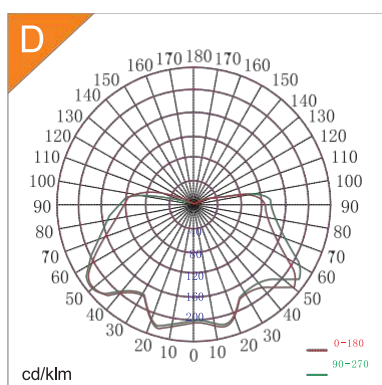
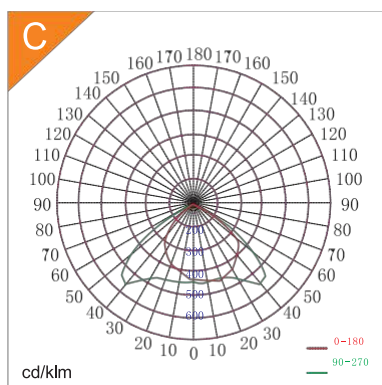
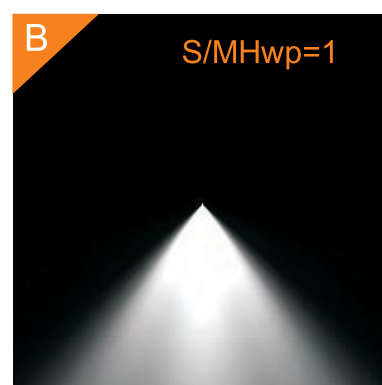
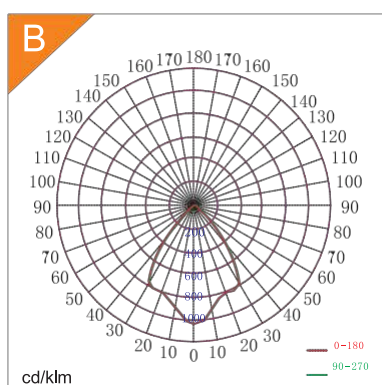
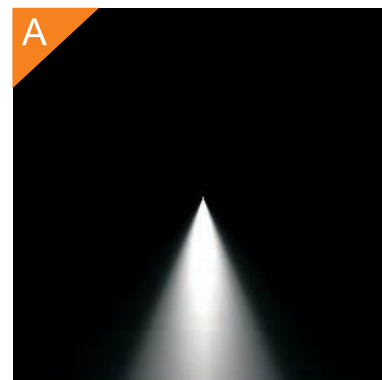
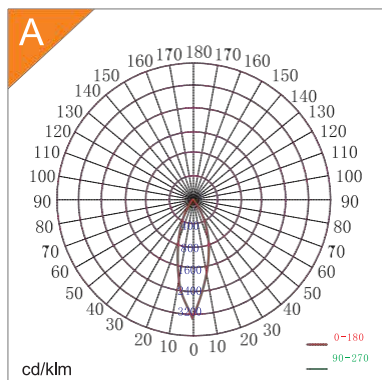
P/N	Candela distribution
Ex-KTFS	A
Ex-KTFB	B
Ex-KTFFW	C
Ex-KTFF	D

Remark: * means candela type S\B\FW\F.

Other parameter

Product type	Size (mm)	Weight(kg)	Ambient temp. (°C)	Max.surface temp. (°C) (tested in 25°C)	IP code	Insulation
Ex-KTF12	Φ 162×147	2	-40~+55	44	IP 66	I
Ex-KTF18	Φ 162×147	2	-40~+55	46	IP 66	I
Ex-KTF24	Φ 162×147	2	-40~+55	49	IP 66	I

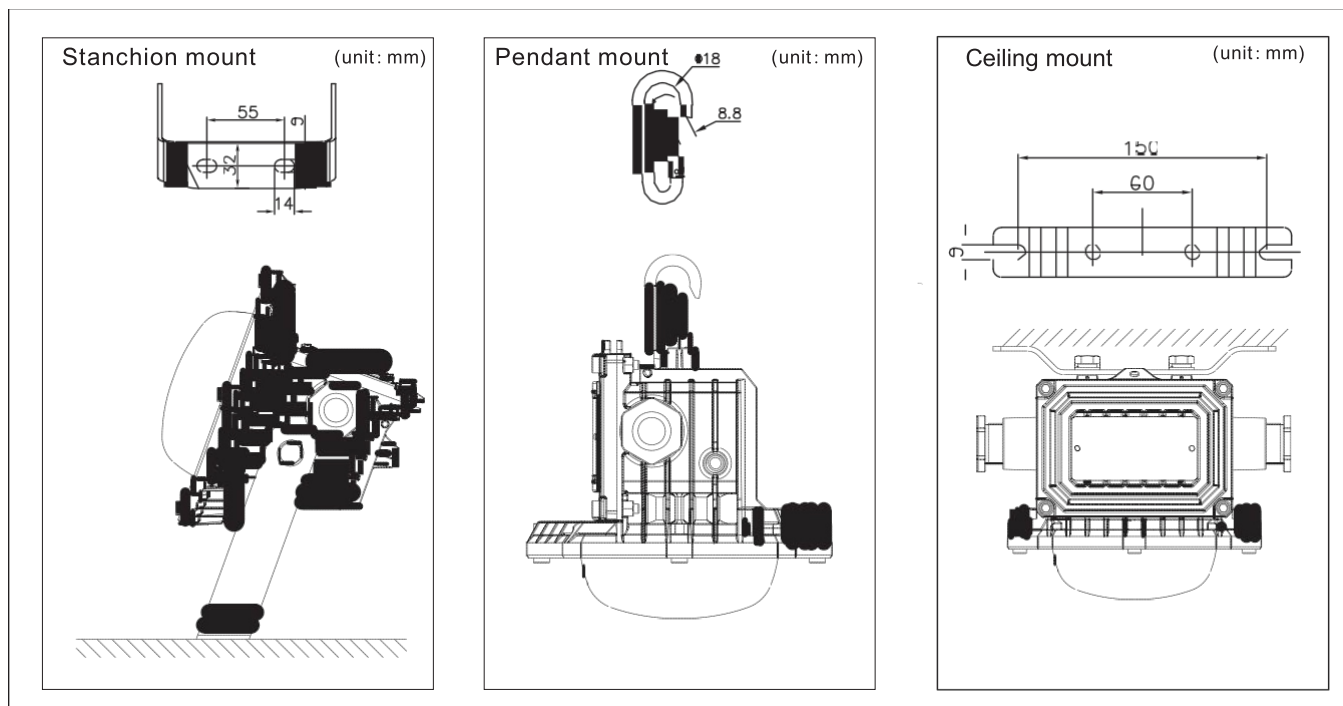
★ CANDELA DISTRIBUTION



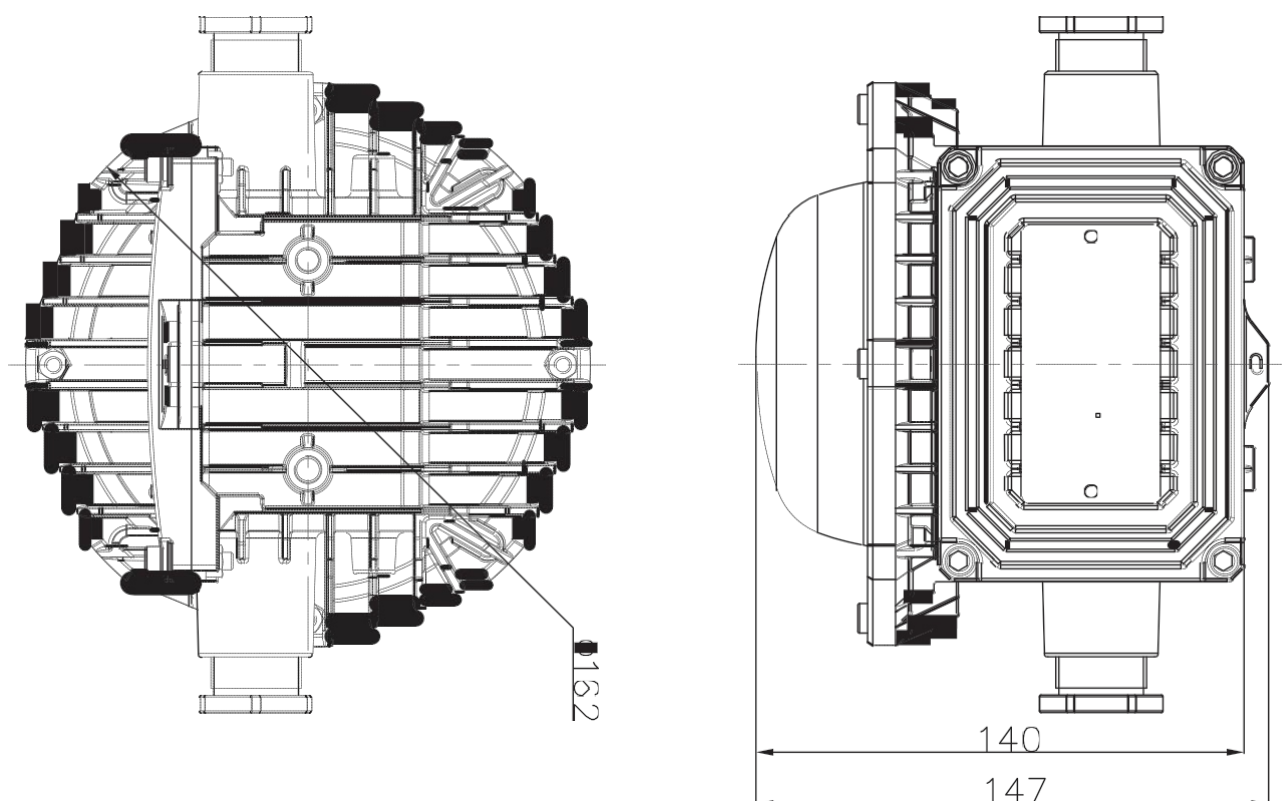
★ INSTALLATION METHOD



Installation method






Size (mm)



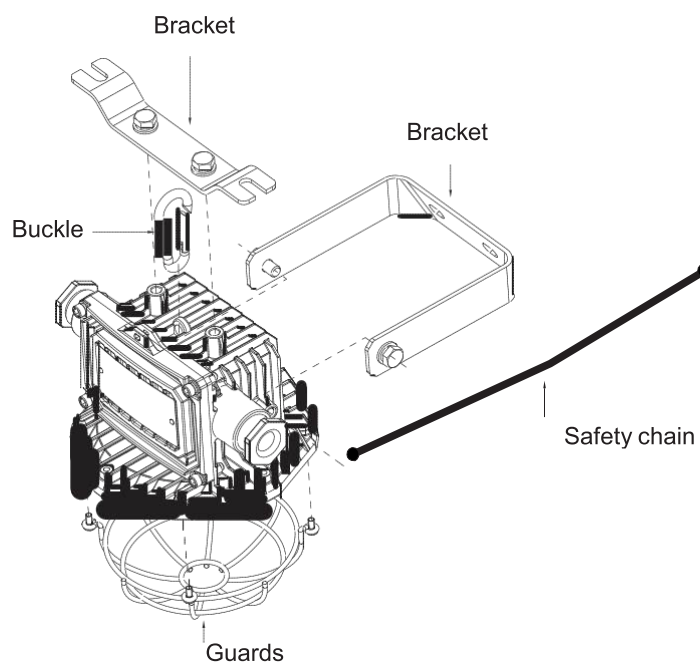
★ ACCESSORIES



Optional parts

NO.	Installation accessories	Picture	Material	Weight (Unit : Kg)	Qty	Remarks
1	Bracket		SPCC	0.4	1	
2	Stanchion bracket		SPCC	2.26	1	
3	Buckle		Q235	0.26	1	

Accessories



★ SERVICE



Caution:

- 1.To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.
- 2.To avoid electric shock:
Be certain electrical power is OFF before and during installation and maintenance.
Luminaire must be supplied by a wiring system with an equipment grounding conductor.
- 3.To avoid burning hands:
Make sure lens and housing are cool when performing maintenance.
- 4.To avoid explosion:
 - 1)Make sure the supply voltage is the same as the luminaire voltage.
 - 2)Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.
 - 3)Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
 - 4 All gasket seals must be clean.
 - 5)Before opening, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.

Package Check

1. Check the carton and all the components according to the packing list.
- 2.Make sure the product is in good conditions.

Transportation

Please keep this product from heavy mechanical shock, exposure to strong sunshine, throwing, rolling and stress during transport.

Storage

Keep in dry, clean and well-ventilated, non-corrosive medium warehouse, the ambient temperature should be -40°C to 55°C.

After-sales service

Installation and maintenance must be according to the instruction.
If customer can not deal with it by themselves ,please contact with sales department.

Contact

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