

# LIGHTING

KF1L SERIES



## C1D1 FLOOD – INTRODUCTION & LOGIC



### PETROBRIGHT® LED

#### FEATURES-SPECIFICATIONS

##### Applications

LED KF1L Series Explosion-proof Floods are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or Type 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC/CEC/IECEX/ATEX & INMETRO

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities

##### Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598A
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 1; Class II, Division 1; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Zone 1 and Zone 21 to IEC 60079-0,60079-1,60079-31, 60079-7 Standards
- Enclosed and gasketed
- Type 3, 4X
- IP66

##### Materials

- Body, end caps and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- Thermal shock and impact resistant extra heavy-duty glass lens
- High temperature silicone gasketing
- Trunnion heavy gauge 316 SS



#### LED Flood Features and Standards

Supplemental **20KA/10KV Surge Protection** is **standard** (for 120-277 VAC models)  
**10KA/10KV Surge Protection** (for 347-480 VAC)

- **Factory Sealed Construction**
- One 3/4" NPT & one M20 entry standard (see logic for other choices)
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000 K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – 100,000+ hours with 70% initial lumens
- Long Fixture Life – 50,000 - 55,000 maintenance free hours
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant

**Class I, Div. 1&2, Groups B,C,D**  
**Class I, Zone 1&2, Groups IIB+H2, IIA**  
**Class II, Div. 1&2, Groups EFG, Class III**  
**Enclosure Type 4X, IP66 (-50°C to +55°C)**

File LR11713

IEC Ex Rated model (w/IEX or IEX4B suffix) Zone 1, Zone 21

Ex de IIB+H2 T6..T5, Gb, IP66

Tamb -20°C ≤Ta≤ +55°C; Option LT for -50°C ≤Ta≤ +55°CⓈ

Ex de IIB T6..T5, Gb, -50°C ≤Ta≤ +55°CⓈ

Ex tb IIIC T90°C Db, -50°C ≤Ta≤ +55°CⓈ

IECEX Certificate  
 CSA 14.0010

ATEX Certificate  
 SIRA14ATEX1159X

Patent Pending  
 Fixture  
 Design



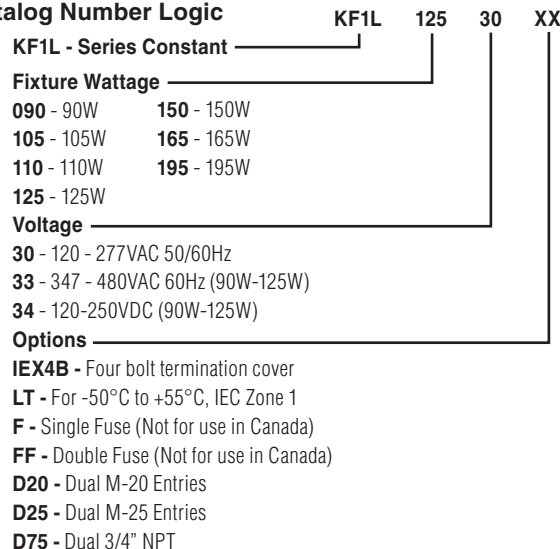
KF1L with KFS-6 Slipfitter mount on 2" pipe



Dark Sky Visor  
 KF1L-DARK

Suitable for Paint  
 Spray

#### Catalog Number Logic



**Construction/Certification Notes:**  
 KF1L units are standard with one 3/4" NPT hub & one M20 hub – both plugged, with an 8-bolt factory sealed termination chamber, suitable for CID1 BCD -50°C to +55°C and IEC Zone 1 Ex de suitable for -20°C to 55°C.

Use option LT for models needing IEC Zone 1, -50°C to +55°C suitability for hydrogen.

Option IEX4B utilizes 4 terminal cover bolts for Ex de and maintains all ratings  
**EXCEPT CID1 BCD.**

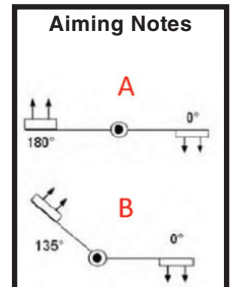
See logic for other entry options



## C1D1 FLOOD – ORDERING & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D1		C2D1		IEC ZONE 1		IEC ZONE 21		L70	
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	DELIVERED LUMENS	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C	TM-21	CALCULATED
KF1L09030	46.00 / 20.87	90	120-277VAC	0.72-0.31	7182	T6	T6	(EFG)	Limited Aiming B	T6	T5	160-75	175-90	60100	270000
KF1L09033			347-480VAC	0.25-0.18											
KF1L09034			120-250VDC	0.72-0.28											
KF1L10530		120-277VAC	0.85-0.37	8362	T6	T6	(EFG)	Limited Aiming B	T6	T5	160-76	175-91	60100	270000	
KF1L10533		347-480VAC	0.29-0.21												
KF1L10534		120-250VDC	0.85-0.33												
KF1L11030		120-277VAC	0.95-0.41	10590	T6	T6	(EFG)	Limited Aiming B	T6	T5	160-77	175-92	72600	278000	
KF1L11033		347-480VAC	0.33-0.24												
KF1L11034		120-250VDC	0.95-0.37												
KF1L12530		120-277VAC	1.10-0.48	11590	T6	T6	(EFG)	Limited Aiming B	T6	T5	160-78	175-93	72600	278000	
KF1L12533		347-480VAC	0.38-0.28												
KF1L12534		120-250VDC	1.10-0.43												
KF1L15030		150	120-277VAC	1.25-0.54	13280	T5	-	-	-	T5	-	-	-	60300	190000
KF1L16530		165	120-277VAC	1.38-0.60	13760	T5	-	-	-	T5	-	-	-	72600	278000
KF1L19530		195	120-277VAC	1.63-0.70	15707	T5	-	-	-	T5	-	-	-	72600	278000

KFL MOUNTS AND ACCESSORIES	
CATALOG NUMBER	DESCRIPTION
KFS-6	Steel Slipfitter for 2" Pipe (2-3/8" o.d.) Tenon. Slips 3.75" Over Pipe
KFCB	Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion
KFWB	Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2" Pipe (2-3/8" o.d.) Through 2-1/2" Pipe (2-7/8" o.d.)
K4040	Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting)
4041	Heavy Duty Steel Wall Bracket 2" Pipe (2-3/8" o.d.) Tenon Fitting
KFLG	Wire Guard, 316 Stainless Steel
VMSC10	10' Stainless Steel Safety Cable with loop grip
KF1L-DARK	Dark Sky Visor, White Painted Aluminum
KF1L-DOOR	Replacement Door and Lens Assembly



### Dimensions

