

ATX™ FELED Series Nonmetallic LED Luminaires

Standard and Emergency Battery Back-Up, Increased Safety

LED/AREA: NEC/CEC EXPLOSIONPROOF/ATEX/IECEX FLAMEPROOF/INCREASED SAFETY

ATEX/IECEX:
Zone 1 and 2 - 21 and 22
II 2 GD
IP66 - IK10

Applications

- For use in locations where:
 - Hazardous areas are designated as Zone 1 and 2 – 21 and 22
 - A high degree of corrosion resistance is required
 - Protection against dirt, water and moisture is necessary
- Typical applications include:
 - Oil refineries
 - Petrochemical facilities
 - Food processing plants
 - Waste and water treatment plants
 - Underground tunnels
 - General manufacturing facilities

Features

- Available in 5000K or 4000K Color Temperatures.
- Meets photobiological requirement for Risk Group 0 (RG0).
- Easy to retrofit in same mounting footprint as Appleton's FE series nonmetallic fluorescent luminaires.
- Full range of lumen outputs, with light distribution equivalent to Appleton's FE series fluorescent luminaires.
- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate lens.
- High impact resistance housing (20 Joules – IK10) from -30 °C to +55 °C (-22 °F to +131 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- 60,000+ hour LED life for years of maintenance free operation.
- Lightweight design, hinged cover with captive screws, and terminal block wiring for easy installation and maintenance.
- Contemporary, low profile design suitable for tight spaces.
- Standard screw-type terminal block can accept 4mm²/6mm² (flexible/rigid) wire.
- Field replaceable LED driver.
- Industry-leading thermal management for safe, reliable operation over wide temperature range.
- Universal, high efficiency, drivers cover voltage requirements for 120-277 Vac, 170-300 Vdc, 50/60 Hz +/- 10%.
- High power factor electronic driver (>0.95).
- Standard 6KV surge suppression.
- M20 plug or M25 plug provided.
- Latch assembly and elastomer gasket seals against water and dust ingress, IP66.
- Easily accessed for maintenance using Allen key or straight blade screwdriver.
- Central opening with unique patented release system to prevent damage.
- Can be horizontally or vertically mounted.
- Available in 3 hour emergency version, including built-in monthly self- test. Test results through multi-colored LED.
- Positive safety switch disconnects power to LED's and driver to allow maintenance in hazardous locations (emergency version).
- Ex e battery with plug-in connector.

Options

- 3 Hours Emergency/Battery Back-Up available ①;
 - Add suffix **-E** to the end of the catalog number.
 - Example: **FELED5CBUSADE**



Standard Materials

- Housing: fiberglass reinforced polyester
- Lens: polycarbonate
- Diffuser: polycarbonate
- Gasket: elastomer
- Internal reflector: highly reflective white polycarbonate (standard versions) or powder coated aluminum (emergency versions)
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

ATEX/IECEX Certifications and Compliances

- **Certification Type: FELED30**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex eb mb IIC Gb
 - Temperature Class: T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +60 °C to +75 °C (+140 °F to +167 °F)
 - Ambient Temperature: -30 °C up to +55 °C (-22 °F up to +131 °F)
 - ATEX Certificate: INERIS 18 ATEX 0042X
 - IECEx Certificate: IECEx INE 18.0039X
- **Certification Type: FELED30 (emergency)**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex db eb mb IIC Gb
 - Temperature Class: T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +60 °C to +70 °C (+140 °F to +158 °F)
 - Ambient Temperature: -20°C up to +50 °C (-4 °F up to 122 °F)
 - ATEX Certificate: INERIS 18 ATEX 0042X
 - IECEx Certificate: IECEx INE 18.0039X
- **Standard and Emergency:**
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - Photobiological Safety, IEC 62778 and IEC 62471: RG0 at 0.25m mounting height

① Available for 3K and 5K lumen models only.

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Order using catalog numbering guide below or select catalog number from tables on following pages.

FELED	LED Position	3	C	BU	S	A	D
Series: FELED - Zone 1, 2, 21, 22 ATEX/IECEX Certified	LED Position ①: Blank - Direct (with diffuser) I - Indirect (without diffuser)	Lumen Output ②: 3 - 3K 4 - 4K 5 - 5K 7 - 7K	Color Temperature: C - 5000K (Cool) N - 4000K (Neutral)	Voltage: BU - 120-277Vac, 170-300Vdc, 50/60 Hz	Mounting Version ③: S - Surface/Suspension Mount Standard Wiring (single phase) L - Surface/Suspension Mount Dual Loop In/Out Through Wiring (single phase)	Cable Entry: A - Armored M20 ④ N - Unarmored M25 ⑤	Options: D - Diffused ⑥ E - 3H Emergency (combined) ⑦ F - Cutoff Switch ⑧

① Indirect position only available for Standard product, non-Emergency.

② All values displayed reflect typical values.

③ Standard and Loop In/Out cable entries provide 3 entries; 1 at one and 2 at the other end of the housing.

④ Must order armored cable glands separately. M20 entries are with brass earth continuity plate for armored cable.

⑤ Cable glands provided in luminaires with unarmored hub entries.

⑥ Diffuser required for direct, not included with indirect.

⑦ Available for 3K and 5K lumen models only.

⑧ Cutoff Switch included with Emergency option.

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Lumen Comparison Chart

Catalog Number	Line Current Amps	Input Power	Power Factor	Lumen Output (Lumens)	Efficacy (lm/w)	Correlated Color Temperature (CCT)	Color Rendering Index (CRI)	Length	Weight
FELED3CBUxxD	0.140A at 230Vac	31	> 0.96	3,050	99	5000K	70+	0.785 m (2.58 ft)	4.5 kg (9.9 lbs)
FELEDI3CBUxx				1,890	61				
FELED3NBUxxD				2,500	81	4000K	80+		
FELEDI3NBUxx				1,600	52				
FELED4CBUxxD	0.195A at 230Vac	44	> 0.96	4,200	95	5000K	70+		
FELEDI4CBUxx				2,600	59				
FELED4NBUxxD				3,450	78	4000K	80+		
FELEDI4NBUxx				2,110	48				
FELED5CBUxxD	0.224A at 230Vac	50	>0.98	5,300	106	5000K	70+	1.39 m (4.56 ft)	8.5 kg (18.74 lbs)
FELEDI5CBUxx				3,300	66				
FELED5NBUxxD				4,400	88	4000K	80+		
FELEDI5NBUxx				2,600	52				
FELED7CBUxxD	0.333A at 230Vac	75	>0.97	7,200	96	5000K	70+		
FELEDI7CBUxx				4,200	56				
FELED7NBUxxD				5,900	78	4000K	80+		
FELEDI7NBUxx				3,460	46				
Emergency Models									
FELED3CBUxxDE	0.172A at 230Vac	36	>0.9	3,050 650	85	5000K	70+	0.785 m (2.58 ft)	6 kg (13 lbs)
FELED3NBUxxDE				2,500 550	70	4000K	80+		
FELED5CBUxxDE	0.270A at 230Vac	56	>0.9	5,300 650	94	5000K	70+	1.39 m (4.56 ft)	10 kg (22 lbs)
FELED5NBUxxDE				4,400 550	78	4000K	80+		

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APPLETON™