ATX™ FELED Series Nonmetallic LED Luminaires
Standard and Emergency Battery Back-Up, Increased Safety

ATEX/IECEx:
 Zone 1 and 2 - 21 and 22
 ⟨Ex⟩ *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 1.5 to 6 mm² 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: *FELED5CBDSADE*

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 op is IIC Gb
    - Temperature Class: T4
  - Dust: Zones 21 and 22
    - Conforming to ATEX 2014/34/EU: II 2 D
    - Type of Protection: Ex op is 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)
- EU Declaration of Conformity: 50318
- ATEX Certificate: INERIS 18 ATEX 0042X
- IECEx Certificate: IECEx INE 18.0039X
- **Certification Type: FELED (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: T6
  - Dust: Zones 21 and 22
    - Conforming to ATEX 2014/34/EU: II 2 D
    - Type of Protection: Ex tb IIIC Db
    - Surface Temperature: +63 °C to +73 °C (+145 °F to +163 °F)
- Ambient Temperature: -20°C up to +50 °C (-4 °F up to 122 °F)
- EU Declaration of Conformity: 50317
- ATEX Certificate: LCIE 16 ATEX 3048X
- IECEx Certificate: IECEx LCIE 16.0038X
- **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
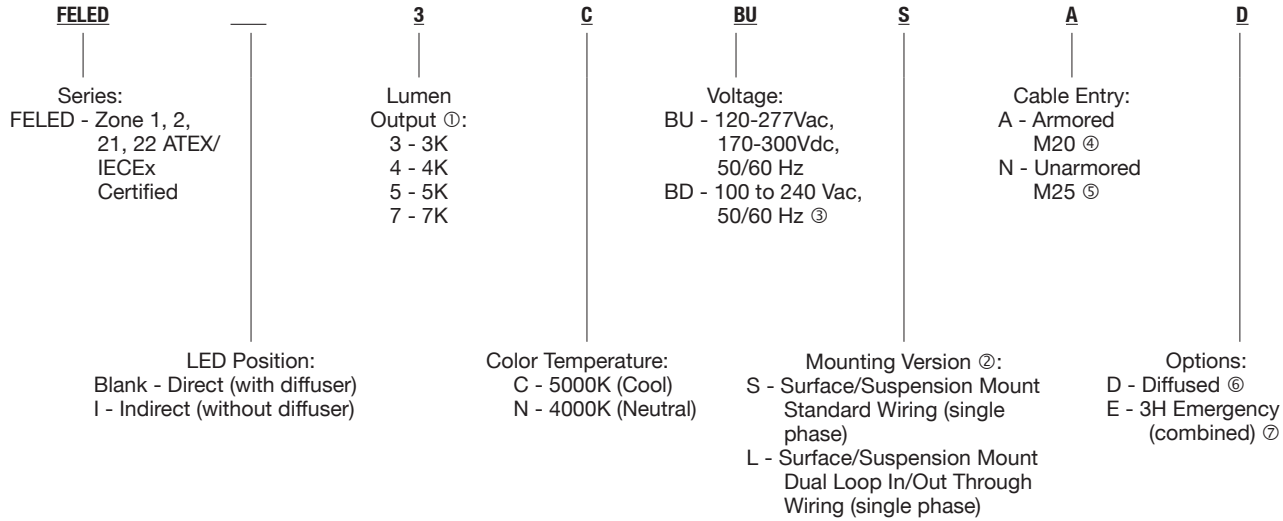
① Available for 5K lumen models only.

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

FELED	___	3	C	BU	S	A	D

Series:
FELED - Zone 1, 2, 21, 22 ATEX/ IECEx Certified

Lumen Output ①:
3 - 3K
4 - 4K
5 - 5K
7 - 7K

Voltage:
BU - 120-277Vac, 170-300Vdc, 50/60 Hz
BD - 100 to 240 Vac, 50/60 Hz ③

Cable Entry:
A - Armored M20 ④
N - Unarmored M25 ⑤

LED Position:
Blank - Direct (with diffuser)
I - Indirect (without diffuser)

Color Temperature:
C - 5000K (Cool)
N - 4000K (Neutral)

Mounting Version ②:
S - Surface/Suspension Mount Standard Wiring (single phase)
L - Surface/Suspension Mount Dual Loop In/Out Through Wiring (single phase)

Options:
D - Diffused ⑥
E - 3H Emergency (combined) ⑦

① All values displayed reflect typical values.
② Standard and Loop In/Out cable entries provide 3 entries; 1 at one and 2 at the other end of the housing.
③ BD voltage for emergency model only
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 5K lumen model only.

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Lumen Comparison Chart

Line Current Amps	Input Power	Power Factor	Lumen Output (Lumens)	Efficacy (lm/w)	Correlated Color Temperature (CCT)	Color Rendering Index (CRI)	Length	Weight	Catalog Number
0.140A at 230Vac	31	> 0.96	3,058	99	5000K	70+	0.785 m (2.58 ft)	4.5 kg (9.9 lbs)	FELED3CBUxxD
			1,886	61					FELEDI3CBUxx
			2,512	81	4000K	80+			FELED3NBUxxD
			1,616	52					FELEDI3NBUxx
0.195A at 230Vac	44	> 0.96	4,196	95	5000K	70+			FELED4CBUxxD
			2,617	59					FELEDI4CBUxx
			3,428	78	4000K	80+			FELED4NBUxxD
			2,111	48					FELEDI4NBUxx
0.224A at 230Vac	50	>0.98	5,290	106	5000K	70+	1.39 m (4.56 ft)	8.5 kg (18.74 lbs)	FELED5CBUxxD
			3,260	65					FELEDI5CBUxx
			4,380	88	4000K	80+			FELED5NBUxxD
			2,613	52					FELEDI5NBUxx
0.333A at 230Vac	75	>0.97	7,181	96	5000K	70+			FELED7CBUxxD
			4,200	56					FELEDI7CBUxx
			5,879	78	4000K	80+			FELED7NBUxxD
			3,458	46					FELEDI7NBUxx