



ATX™ FELED SERIES NONMETALLIC LED LUMINAIRES

FEATURES

- 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 +50 °C/+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 4 mm² flexible / 6mm² rigid wire.
- Field replaceable LED driver and lens.
- Industry-leading thermal management for safe, reliable operation over wide temperature range.
- Universal, high efficiency, drivers cover voltage requirements for 100-240 Vac, 50/60 Hz +/- 10%.
- High power factor electronic ballast (>0.95).
- Standard 2KV 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.
- Positive safety switch disconnects power to LED's and driver to allow maintenance in hazardous locations.
- Available in 3 hour emergency version, including built-in monthly self-test. Test results through multi-colored LED
- Ex e battery with plug-in connector for quick and error-free maintenance.

SUITABLE LOCATIONS

- 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
 - Pharmaceuticals industry
 - Underground tunnels
 - General manufacturing facilities

STANDARD MATERIALS

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

OPTIONS

- 3 Hours Emergency / Battery Back-Up available ①;
 - Add suffix **-E** to the end of the catalog number. Example: FELED5BDSADE
- Diffused lens is available;
 - Add suffix **-D** to the end of the catalog number. Example: FELED5BDSAD

ATEX/IECEx CERTIFICATIONS AND COMPLIANCES

- Certification Type: FELED
 - 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 to T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +78 °C to 96 °C (172 °F to 205 °F)
- Ambient Temperature: -30 °C up to +50 °C/+55 °C (-22 °F up to 122 °F/+131 °F)
- EU Declaration of Conformity: 50317
- ATEX Certificate: LCIE 16 ATEX 3048X
- IECEx Certificate: IECEx LCIE 16.0038X
- Index of Protection according EN/IEC 60529: IP66.
- Impact Resistance (shock): IK10

① Available for 5K lumen models only.



ATX™ FELED SERIES NONMETALLIC LED LUMINAIRES

<p>FELED</p> <p>Series: FELED - FELED Series Zone 1, 2, 21, 22 ATEX/IECEX Certified</p>	<p>3</p> <p>Lumen Output: 2 - 2K Lumen Output 3 - 4K Lumen Output 5 - 5K Lumen Output 7 - 8K Lumen Output</p>	<p>BD</p> <p>Voltage: BD - 100 to 240 Vac, 50/60 Hz</p>	<p>S</p> <p>Mounting Version: S - Surface/Suspension Mount Standard Wiring (single phase) L - Surface/Suspension Mount Dual Loop in/out Through Wiring (single phase)</p>	<p>A</p> <p>Cable Entry Type: A - Armored M20 N - Unarmored M25</p>	<p>D</p> <p>Options: D - Diffused Lens E - 3H Emergency (combined) ①</p>
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	FELED2BD				FELED3BD				FELED5BD				FELED7BD			
	SA	SN	LA	LN	SA	SN	LA	LN	SA	SN	LA	LN	SA	SN	LA	LN
Line Current Amps	0.23A @ 100V 0.11A @ 240V				0.40A @ 100V 0.18A @ 240V				0.44A @ 100V 0.18A @ 240V				0.86A @ 100V 0.36A @ 240V			
Input Power	23W				43W				43W				86W			
Power Factor	>0.95															
Lumen Output (Lumens)																
– Clear Polycarbonate lens	2400				4300				4600				8500			
– Diffused Polycarbonate lens	2200				4000				4025				7900			
Color Rendering Index (CRI)	70															
Correlated Color Temperature (CCT)	5650															
Luminaire Length	0.785 m (2.58 ft)				0.785 m (2.58 ft)				1.39 m (4.56 ft)				1.39 m (4.56 ft)			
Lifetime	60,000+ hours															

All values displayed reflect typical values.

LED Status

Color	Indication	Function
Green	LED Blinking	Mains voltage available – Battery charging
	LED Continuous	Mains voltage available – Battery connected and loaded
Green and Red	LED Blinking Alternately (2s)	Mains voltage available – Battery in repair mode
Red	LED Blinking	Mains voltage available – No battery connected OR defective
	LED Continuous	Mains voltage NOT available – Light unit powered by batteries (emergency mode)
	LED Flashing	Mains voltage NOT available – Battery low (emergency mode completed)
Yellow (Orange) and another color	LED Blinking Alternately	Mains voltage available – Last automatic or manual operational check has been unsuccessful
None (Off)	No Light Emitted	Mains voltage NOT available – Battery completely empty

Self-Test : In 3 month intervals batteries are automatically discharged and recharged once

Emergency Light Duration

Version	Battery Capacity	Duration	Light Output
5K	7 Ah – 6V	3 hours	25%

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