

ATX™ FE Series Nonmetallic Fluorescent Luminaires

Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEx:
Zone 1 and 2 - 21 and 22
Ⓔ II 2 GD
IP66/67 - IK10

Applications

- Can be installed in hazardous areas designated as Zone 1 and 2 - 21 and 22.
- For use in locations where a high degree of corrosion resistance is required.
- For indoor/outdoor use where protection against dirt, water and moisture is necessary.
- Typical applications include oil refineries, petrochemical facilities, pulp and paper mills, food processing plants, warehouses, underground tunnels and general manufacturing facilities.

Features

- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate lens.
- High impact resistance housing (20 Joules - IK10) from -40 °C to +55 °C (-40 °F to +131 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- Latch assembly and elastomer gasket seals against water and dust ingress, IP66/67.
- 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.
- Hinged parabolic reflector for high lumen output efficiency.
- Vibration resistant spring loaded lampholders for bi-pin (G13) or mono-pin (Fa6) versions.
- Positive safety switch disconnects power to lamps and ballast to allow maintenance in hazardous locations.
- Electronic multi-tap ballast 110 to 254 Vac/Vdc +/- 10% 50/60 Hz, for global applications. High power factor electronic ballast (>0.95). EOL (End Of Life) protection in accordance to the latest EN/IEC 60079-7 standard.
- Two channel ballast prevents dark areas by allowing one lamp to remain lit if one fails.
- Ballast plug-in with Ex e connector for quick and error-free maintenance.
- Available in 3 hour or 90 minute emergency versions, including multi-tap ballast with built-in monthly self test. Test results through multi-colored LED.
- Ex e battery with plug-in connector.

Standard Materials

- Fiberglass reinforced polyester housing
- Polycarbonate lens
- Elastomer gasket
- Highly reflective white polycarbonate internal reflector
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

Options

- Silicone coating for added protection in H₂S hydrogen sulfide environments.
- ATEX/IEC version available without safety switch.
- Level gauge light fitting.
- 316 stainless steel fixing inserts.



2 x 58 W



2 x 36 W



2 x 18 W

ATEX/IECEx Certifications and Compliances

- Certification Type: FLe
 - Gas: Zones 1 and 2:
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC (emergency version)
 - T-Rating: T5 Ⓢ to T4
 - Dust: Zone 21 and 22:
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex t IIIC Db
 - Surface Temperature: +75 °C (+167 °F)
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50201
- ATEX Certificate: LCIE 07 ATEX 6017
- IECEx Certificate: IECEx LCI 04.0017
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK10

EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00910

Other Certification

- INMETRO Certificate: BVC11.0276 Ⓢ

Ⓢ Inmetro certification available on special request only. Contact your local sales representative for more information.
Ⓢ With ceiling position use at +40 °C (+104 °F) ambient temperature.

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

Catalog Numbering Guide — FE Nonmetallic Fluorescent Lighting Fixtures

FE	B	1	18	BU	P	A	C
Series: FE - FE Series Zone 1, 2, 21, 22 ATEX/IECEX Certified	Lamp Type: B - Bi-pin (G13) M - Mono Pin (Fa6)	Number of Lamps: 1 - Single 2 - Double 3 - Three Lamps	Wattage: 18 - 18 Watt 36 - 36 Watt 58 - 58 Watt	Voltage: BU - 110 to 254 Vac/ Vdc, 50/60 Hz	Mounting Version: P - Pole Mount ⑤ S - Surface/Suspension Mount Standard Wiring T - Surface/Suspension Mount Through Wiring L - Surface/Suspension Mount Dual Loop in/out Through Wiring (single phase)	Cable Type: A - Armored M20 N - Unarmored M25 U - Unarmored M20	Options: (options must be listed alphabetically) C - Silicon Coating for Diffuser E - 3 Hour Emergency Battery: 6 V - 4 Ah (18W) 6 V - 7 Ah (36W, 58W) E9 - 90 Minute Emergency Battery: 6 V - 4 Ah (18W) 6 V - 7 Ah (36W, 58W) L - Level Gauge Light Fitting ② N - No Switch ③ X - 4 Entries ④

② Only for single standard versions.

③ Only for standard versions.

④ Only for S, T and L mounting versions.

⑤ Only 2 x 18 W and 2 x 36 W with M25 entry versions.

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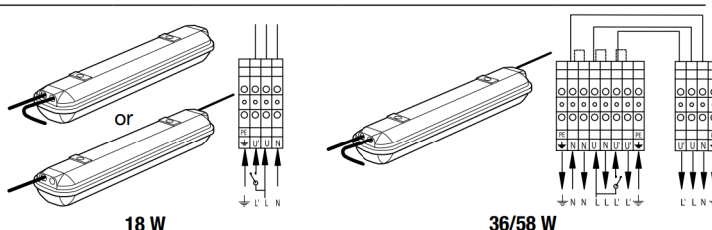
Emergency Battery Backup

Surface/Suspension Mounting and Dual Loop In/Out Through Wiring Version (single phase)

Connection via 1 x 4 double deck terminals for 18 W version.

Connection via 1 x 8 terminals and 1 x 4 terminals for 36 W and 58 W versions.

Capacity (flexible/solid): 4 mm²/6 mm² (0.0062 in²/0.0093 in²) — 10/8 AWG.



Unarmored Version - Bi-pin (G13)

Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands — 8 to 18.5 mm (0.31 to 0.73") diameter — and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	7.6 (16.76)	32.3 (1971.07)	3 H	4Ah	FEB218BULNE
2	36	Bi-pin	110/254	9.9 (21.83)	54.2 (3307.49)	3 H	7Ah	FEB236BULNE
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BULNE

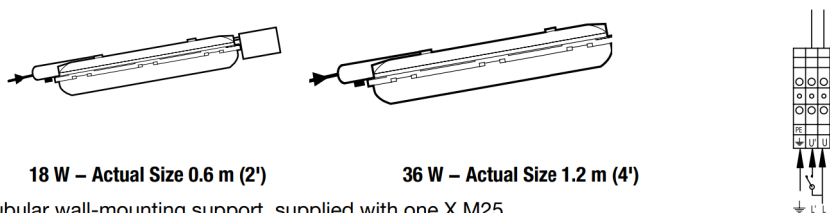
Armored Version - Bi-pin (G13)

Two M20 threaded entries with brass earth continuity plate at one end and one M20 threaded entry with brass earth continuity plate at opposite end, supplied with one M20 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	7.6 (16.76)	32.3 (1971.07)	3 H	4Ah	FEB218BULAE
2	36	Bi-pin	110/254	9.9 (21.83)	54.2 (3307.49)	3 H	7Ah	FEB236BULAE
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BULAE

Pole Mounting Version

Connection via 1 x 4 terminals.
Capacity (flexible/solid): 4 mm²/6 mm² (0.0062 in²/0.0093 in²) — 10/8 AWG.



For mounting on diameter 42 mm pole or tubular wall-mounting support, supplied with one X M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	10.0 (22.05)	54.2 (3307.49)	3 H	4Ah	FEB218BUPNE ①
2	36	Bi-pin	110/254	10.4 (22.93)	54.2 (3307.49)	3 H	7Ah	FEB236BUPNE

① 2 x 18 W is supplied with external battery pack (see dimensional data).