A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

Standard and Emergency Battery Back-Up. Increased Safety

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

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

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) ① 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 H_2S 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: CE 0081 Ex II 2 G
    - – ATEX/IEC Protection: Ex de IIC or Ex demb IIC (emergency version)
    - – T Rating: T5 ② to T4
  - — Dust: Zone 21 and 22:
    - – Conforming to ATEX 94/9/CE: CE 0081 Ex II 2 D
    - – ATEX/IEC Protection: Ex tD A21
    - – Surface Temperature: +75 °C (+67 °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: LCIE Ex 04.0017
- Other Certifications: GOST
- Index of Protection (solid and liquid): IP66/67
- Impact Resistance (shock): IK10
- Ex Standards: EN/IEC 60079-0; 60079-1; 60079-7; 60079-18; 61241-0; 61241-1
- Product Standards: EN/IEC 60598-1; 60598-2-22
- EMC Standards: EN/IEC 55015; 61547
- Other Standards: EN/IEC 60529 (IP); 62262 (IK)

NBR IEC Brazilian Certifications and Compliances

- Certification Type: FLe
  - — Gas: Zones 1 and 2:
    - – IEC Marking: Ex de IIC/demb IIC Gb
  - — Dust: Zone 21 and 22:
    - – IEC Marking: Ex tb IIIC Db
- Ambient temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- Ingress Protection: IP66/67
- INMETRO Ordinance 179
- INMETRO Certificate: BVC 11.0276
- Impact Resistance (shock): IK10
- Ex Standards: ABNT NBR IEC 60079-0, 60079-1, 60079-7, 60079-18, 60079-31
- Other Standards: ABNT NBR IEC 60529 (IP)

① Mono-pin (Fa6) is NOT certified for use in NBR IEC governed locations.
② With ceiling position use at +40 °C (+104 °F) ambient temperature.

© May 2014

A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

Standard and Emergency Battery Back-Up. Increased Safety

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

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

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

NFE - FE Series
Zone 1, 2, 21, 22
NBR IEC Certified

Lamp Type:
B - Bi-pin (G13)
M - Mono Pin (Fa6) ①

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

① Mono-pin (Fa6) is NOT certified for use in NBR IEC governed locations.
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.

© May 2014

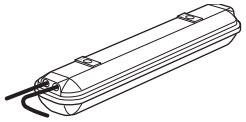
A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

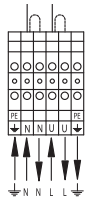
Standard and Emergency Battery Back-Up. Increased Safety

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

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

Surface/Suspension Mounting and Standard Wiring Version
Connection via 1 x 6 terminals.
Capacity (flexible/solid): 4 mm²/6 mm² (0.0062 in²/0.0093 in²) — 10/8 AWG.





Unarmored Version - Bi-pin (G13)
Three M25 threaded entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter — and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
1	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB118BUSN**	**NFEB118BUSN**
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB218BUSN**	**NFEB218BUSN**
1	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB136BUSN**	**NFEB136BUSN**
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB236BUSN**	**NFEB236BUSN**
3	36	G13	110/254	9.9 (21.83)	54.2 (3307.49)	**FEB336BUSN**	**NFEB336BUSN**
1	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB158BUSN**	**NFEB158BUSN**
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB258BUSN**	**NFEB258BUSN**
3	58	G13	110/254	11.0 (24.30)	65.0 (3966.54)	**FEB358BUSN**	**NFEB358BUSN**

Armored Version - Bi-pin (G13)
Two M20 threaded entries with brass earth continuity plate at one end and one M20 plugged clearance entry, supplied with two M20 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
1	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB118BUSA**	**NFEB118BUSA**
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB218BUSA**	**NFEB218BUSA**
1	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB136BUSA**	**NFEB136BUSA**
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB236BUSA**	**NFEB236BUSA**
3	36	G13	110/254	9.9 (21.83)	54.2 (3307.49)	**FEB336BUSA**	**NFEB336BUSA**
1	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB158BUSA**	**NFEB158BUSA**
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB258BUSA**	**NFEB258BUSA**
3	58	G13	110/254	11.0 (24.30)	65.0 (3966.54)	**FEB358BUSA**	**NFEB358BUSA**

© May 2014

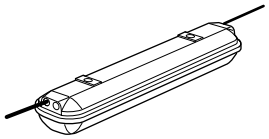
A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

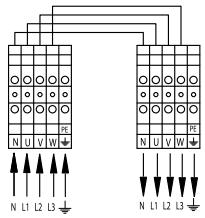
Standard and Emergency Battery Back-Up. Increased Safety

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

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

Surface/Suspension Mounting and Through Wiring Version (three phase)
Connection via 2 x 5 terminals.
Capacity (flexible/solid): 4 mm²/6 mm² (0.0062 in²/0.0093 in²) — 10/8 AWG.





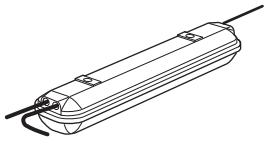
Unarmored Version - Bi-pin (G13)
Three M25 threaded entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands — 8 to 18.5 mm (0.31 to 0.73") diameter — and one M25 polyamide plug.

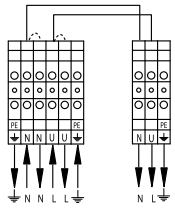
Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB218BUTN**	**NFEB218BUTN**
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB236BUTN**	**NFEB236BUTN**
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB258BUTN**	**NFEB258BUTN**

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)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB218BUTA**	**NFEB218BUTA**
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB236BUTA**	**NFEB236BUTA**
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB258BUTA**	**NFEB258BUTA**

Surface/Suspension Mounting and Dual Loop In/Out Through Wiring Version (single phase):
Connection via 1 x 6 terminals and 1 x 3 terminals.
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)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB218BULN**	**NFEB218BULN**
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB236BULN**	**NFEB236BULN**
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB258BULN**	**NFEB258BULN**

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)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB218BULA**	**NFEB218BULA**
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB236BULA**	**NFEB236BULA**
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB258BULA**	**NFEB258BULA**

© May 2014

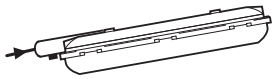
A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

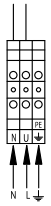
Standard and Emergency Battery Back-Up. Increased Safety

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

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

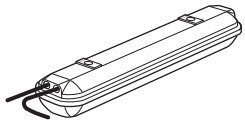
Pole Mounting Version
Connection via 1 x 3 terminals.
Capacity (flexible/solid): 4 mm^2/6 mm^2 (0.0062 in^2/0.0093 in^2) — 10/8 AWG.
For mounting on 42 mm (1.65") diameter pole or tubular wall-mounting support, supplied with one integrated M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter.

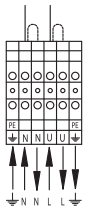




Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm^3 (in^3)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	G13	110/254	6.2 (13.67)	34.1 (2080.91)	**FEB218BUPN**	**NFEB218BUPN**
2	36	G13	110/254	8.7 (19.18)	54.2 (3307.49)	**FEB236BUPN**	**NFEB236BUPN**

Level Gauge Tank Light -
Surface/Suspension Mounting with Standard Wiring
Connection via 1 x 6 terminals.
Capacity (flexible/solid): 4 mm^2/6 mm^2 (0.0062 in^2/0.0093 in^2) — 10/8 AWG.





Unarmored Version - Bi-pin (G13)
Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter — and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm^3 (in^3)	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
1	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	**FEB118BUSNL**	**NFEB118BUSNL**
1	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	**FEB136BUSNL**	**NFEB136BUSNL**
1	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	**FEB158BUSNL**	**NFEB158BUSNL**

© May 2014

A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

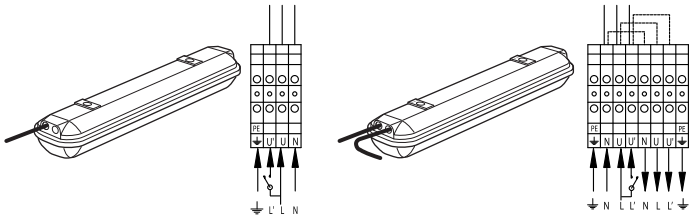
Standard and Emergency Battery Back-Up. Increased Safety

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

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

Emergency Battery Backup

Surface/Suspension Mounting and Standard Wiring
Connection via 1 x 4 terminals for 18 W version.
Connection via 1 x 8 terminals for 36 W and 58 W versions.
Capacity (flexible/solid): 4 mm^2/6 mm^2 (0.0062 in^2/0.0093 in^2) — 10/8 AWG.
Unarmored Version - Bi-pin (G13)
Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter — and two M25 polyamide plugs.



Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm^3 (in^3)	Duration (Hours)	Battery Capacity	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	G13	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	**FEB218BUSNE**	**NFEB218BUSNE**
2	36	G13	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	**FEB236BUSNE**	**NFEB236BUSNE**
3	36	G13	110/254	11.6 (25.57)	54.2 (3307.49)	3 H	7Ah	**FEB336BUSNE**	**NFEB336BUSNE**
2	58	G13	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	**FEB258BUSNE**	**NFEB258BUSNE**
3	58	G13	110/254	12.7 (28.00)	65.0 (3966.54)	3 H	7Ah	**FEB358BUSNE**	**NFEB358BUSNE**

Armored Version - Bi-pin (G13)
Two M20 threaded entries with brass earth continuity plate at one end and one M20 plugged clearance entry, supplied with two M20 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm^3 (in^3)	Duration (Hours)	Battery Capacity	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	G13	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	**FEB218BUSAE**	**NFEB218BUSAE**
2	36	G13	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	**FEB236BUSAE**	**NFEB236BUSAE**
3	36	G13	110/254	11.6 (25.57)	54.2 (3307.49)	3 H	7Ah	**FEB336BUSAE**	**NFEB336BUSAE**
2	58	G13	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	**FEB258BUSAE**	**NFEB258BUSAE**
3	58	G13	110/254	12.7 (28.00)	65.0 (3966.54)	3 H	7Ah	**FEB358BUSAE**	**NFEB358BUSAE**

Visit our website at **www.appletonelec.com** or contact us at **(800) 621-1506**.
© May 2014

A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

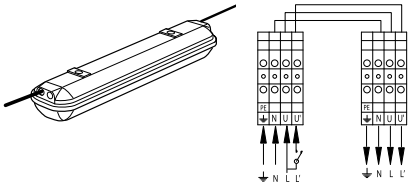
Standard and Emergency Battery Back-Up. Increased Safety

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

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

Emergency Battery Backup

Surface/Suspension Mounting and Through Wiring Version
Connection via 2 x 4 terminals.
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 ATEX/IECEx	Catalog Number NBR IEC
2	18	Bi-pin	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	**FEB218BUTNE**	**NFEB218BUTNE**
2	36	Bi-pin	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	**FEB236BUTNE**	**NFEB236BUTNE**
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	**FEB258BUTNE**	**NFEB258BUTNE**

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 ATEX/IECEx	Catalog Number NBR IEC
2	18	Bi-pin	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	**FEB218BUTAE**	**NFEB218BUTNE**
2	36	Bi-pin	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	**FEB236BUTAE**	**NFEB236BUTNE**
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	**FEB258BUTAE**	**NFEB258BUTNE**

© May 2014

A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

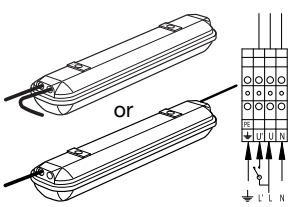
Standard and Emergency Battery Back-Up. Increased Safety

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

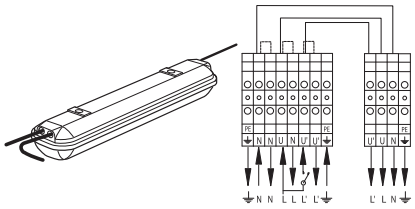
NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC/Ex demb IIC Gb
Ex tb IIIC Db
IP 66/67

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.



18 W



36/58 W

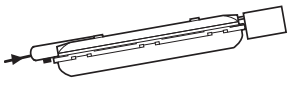
Unarmored Version - Bi-pin (G13)
Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands — 8 to 18.5 mm (0.31 to 0.73") diameter — and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Duration (Hours)	Battery Capacity	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	Bi-pin	110/254	7.6 (16.76)	32.3 (1971.07)	3 H	4Ah	**FEB218BULNE**	**NFEB218BULNE**
2	36	Bi-pin	110/254	9.9 (21.83)	54.2 (3307.49)	3 H	7Ah	**FEB236BULNE**	**NFEB236BULNE**
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	**FEB258BULNE**	**NFEB258BULNE**

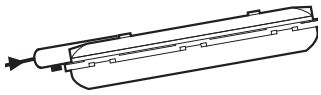
Armored Version - Bi-pin (G13)
Two M20 threaded entries with brass earth continuity plate at one end and one M20 threaded entry with brass earth continuity plate at opposite end, supplied with one M20 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Duration (Hours)	Battery Capacity	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	Bi-pin	110/254	7.6 (16.76)	32.3 (1971.07)	3 H	4Ah	**FEB218BULAE**	**NFEB218BULAE**
2	36	Bi-pin	110/254	9.9 (21.83)	54.2 (3307.49)	3 H	7Ah	**FEB236BULAE**	**NFEB236BULAE**
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	**FEB258BULAE**	**NFEB258BULAE**

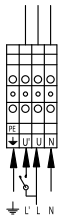
Pole Mounting Version
Connection via 1 x 4 terminals.
Capacity (flexible/solid): 4 mm²/6 mm² (0.0062 in²/0.0093 in²) — 10/8 AWG.



18 W – Actual Size 0.6 m (2')



36 W – Actual Size 1.2 m (4')



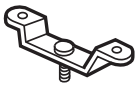
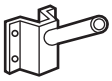
For mounting on diameter 42 mm pole or tubular wall-mounting support, supplied with one X M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm³ (in³)	Duration (Hours)	Battery Capacity	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
2	18	Bi-pin	110/254	10.0 (22.05)	54.2 (3307.49)	3 H	4Ah	**FEB218BUPNE** ①	**NFEB218BUPNE** ①
2	36	Bi-pin	110/254	10.4 (22.93)	54.2 (3307.49)	3 H	7Ah	**FEB236BUPNE**	**NFEB236BUPNE**

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

© May 2014

Accessories and Replacement Parts

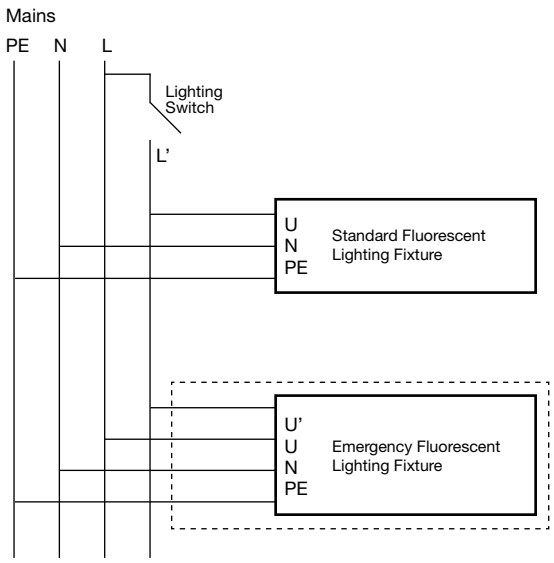
	Description	Catalog Number ATEX/IECEx	Catalog Number NBR IEC
Fixing Brackets			
	Set of two brackets for surface installation		
	Zinc plated steel	**FEFBZ**	**NFEFBZ**
Brackets for Surface Mounting			
	Set of two		
	316 stainless steel	**FESBS**	**NFESBS**
M8 Ring Bolts			
	Set of two		
	Zinc plated steel	**FERBM8Z**	**NFERBM8Z**
Half Clamps Brackets for Pole Mounting			
	Set of two		
	Diameter for 1-1/4 to 1-1/2" pole: 42 mm (16.65 in) to 49 mm (1.93 in)		
	Zinc plated steel	**FEHC49Z**	**NFEHC49Z**
	316 stainless steel	**FEHC49S**	**NFEHC49S**
	Diameter for 2" pole: 60 mm (2.36 in)		
	Zinc plated steel	**FEHC60Z**	**NFEHC60Z**
	316 stainless steel	**FEHC60S**	**NFEHC60S**
Wall Mounting Adaptor			
	For pole mounting version		
	Diameter for 2" pole: 60 mm (2.36 in)		
	Galvanized steel	**FEWMG**	**NFEWMG**
Hinged Brackets			
	Set of two brackets for adjusting luminaire		
	Aluminium	**FEHBA**	**NFEHBA**
	316 stainless steel	**FEHBS**	**NFEHBS**
Fall Prevention Kit			
	Safety chain retains fixture temporarily to ease installation		
	For M25 cable entry	**FESCM25**	**NFESCM25**
	For M20 cable entry	**FESCM20**	**NFESCM20**
Adaptor for Fa8 Tube on Fa6 Lampholder			
		096905	—

© May 2014

A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

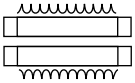
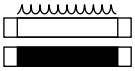
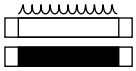
Standard and Emergency Battery Back-Up. Increased Safety

Wiring Diagram

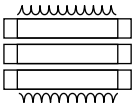
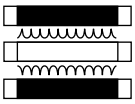
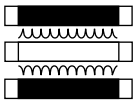


Emergency Function Diagram

Two Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

Three Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

LED Status

Color	Indication	Function
Green	LED Blinking	Mains good – Battery quick charging
	LED Continuous	Mains good – Battery trickle charging
Red	LED Blinking	No battery connected *OR* Something is defective
	LED Continuous	Mains faulty — Output ON
	LED Flashing	Mains faulty — Battery empty *OR* Lamp is defective
Yellow	LED Blinking	Mains good — Performing self test
	LED Continuous	Self test was not okay
None (Off)	No Light Emitted	No mains — Battery completely empty

Emergency Light Duration

Version	Battery Capacity	Duration	Light Output
2 x 18 W	4 Ah – 6 V	90 minute	80%
	4 Ah – 6 V	3 hour	40%
2 x 36 W	7 Ah – 6 V	90 minute	45%
	7 Ah – 6 V	3 hour	25%
2 x 58 W	7 Ah – 6 V	90 minute	30%
	7 Ah – 6 V	3 hour	15%

Visit our website at **www.appletonelec.com** or contact us at **(800) 621-1506**.
© May 2014

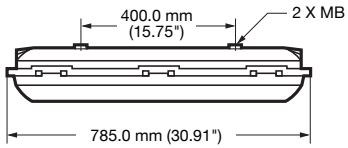
A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

Standard and Emergency Battery Back-Up. Increased Safety

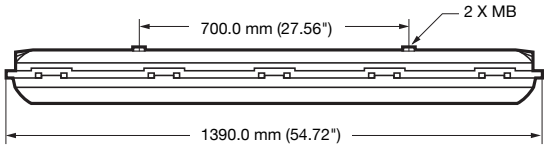
Dimensions in Millimeters (Inches)

Surface/Suspension Mounting

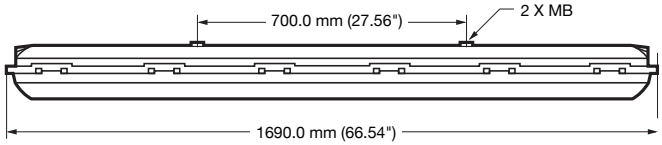
18 Watt



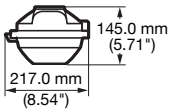
36 Watt



58 Watt

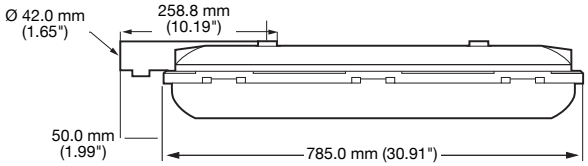


End View

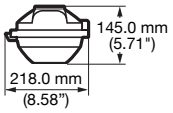


Pole Mounting

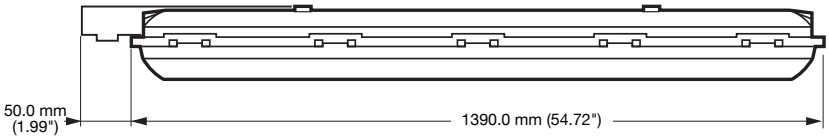
18 Watt



End View

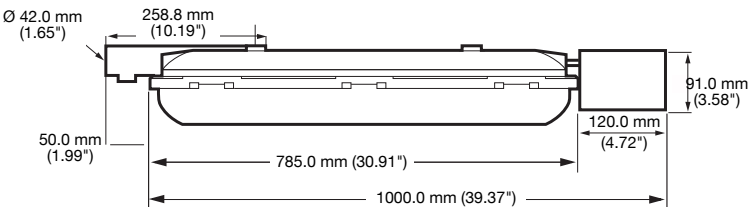


36 Watt

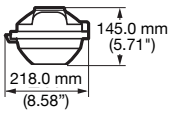


Emergency Pole Mounting

18 Watt



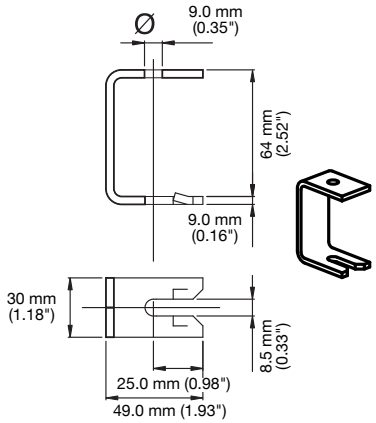
End View



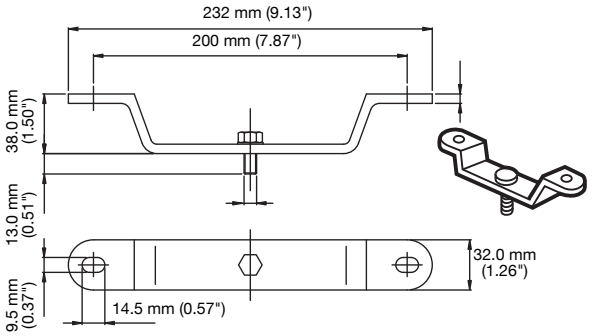
© May 2014

Mounting Data

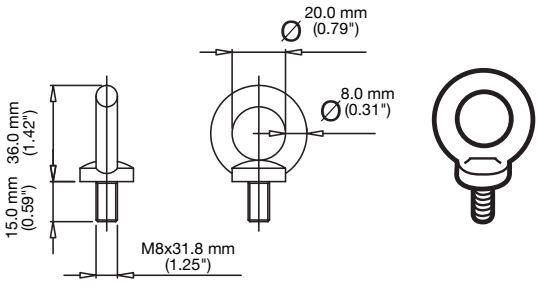
FEFBZ: zinc plated steel — Set of two quick fixing brackets for ease of surface mounting



FESBS: 316 stainless steel — Set of two brackets for surface mounting



FERBM8Z: zinc plated steel — Set of two ring bolts



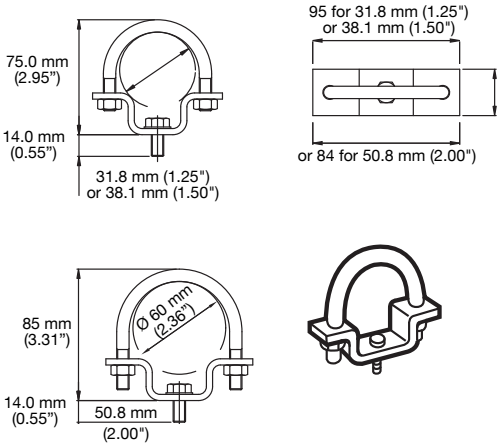
Visit our website at **www.appletonelec.com** or contact us at **(800) 621-1506**.
© May 2014

A.T.X.® FE Series Nonmetallic Fluorescent Luminaires

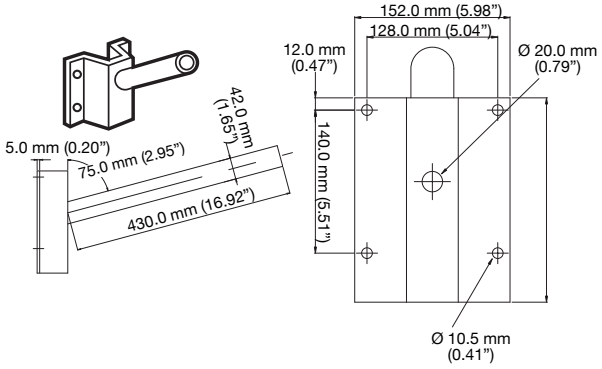
Standard and Emergency Battery Back-Up. Increased Safety

Mounting Data

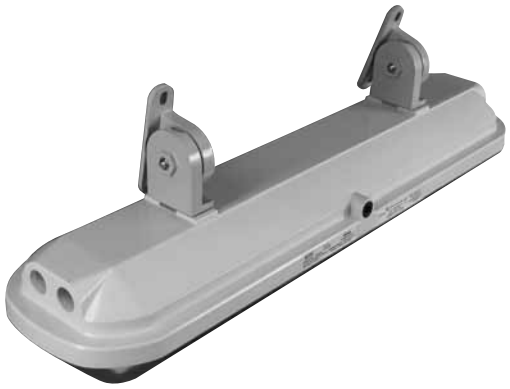
FEHC49Z: zinc plated steel or FEHC49S: 316 stainless steel — Set of two clamps for pole diameter 42 mm to 49 mm (for 1-1/4” to 1-1/2" pole).
FEHC60Z: zinc plated steel or FEHC60S: 316 stainless steel — Set of two clamps for pole diameter 60 mm (for 2” pole).

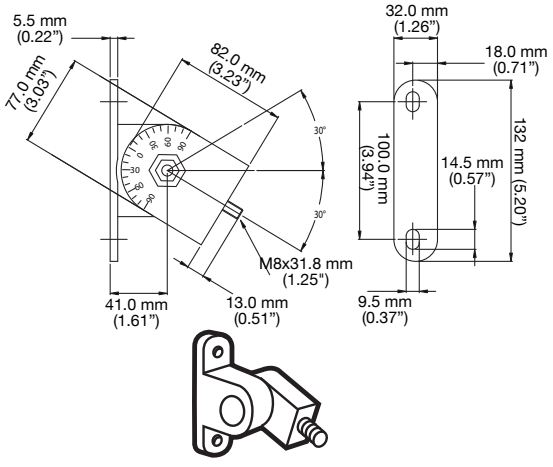


FEWMG: galvanized steel — Wall mounting pole diameter 42 mm (1-1/4”)



FEHBA: aluminum or FEHBS: 316 stainless steel — Set of two hinged brackets for adjusting luminaire.





© May 2014

A.T.X.® FE Series Nonmetallic Fluorescent Luminaire Photometric Data

Standard and Emergency Battery Back-Up. Increased Safety

Photometric Data

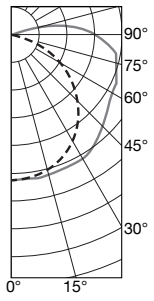
Polar curves for a 1000 lm flux, according to NF C 71-120
Luminaire symbol according to NF C 71-121

Longitudinal
Transverse

1 x 18 Watt
TOTAL LUMINAIRE EFFICIENCY = 94.8%
NF C 71–121: 0.86 H + 0.09 T

CANDELA DISTRIBUTION

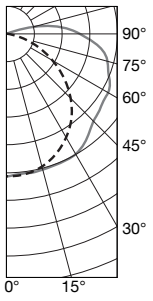
	0–180	90–270
0	215	215
5	214	214
10	211	215
15	207	213
20	200	211
25	191	209
30	181	208
35	169	202
40	155	196
45	139	187
50	122	181
55	103	175
60	83	174
65	62	173
70	42	165



1 x 36 W
Efficiency 89.3%
NF C 71–121: 0.81 H + 0.08 T

CANDELA DISTRIBUTION

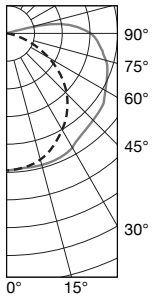
	0–180	90–270
0	205	205
5	204	203
10	202	203
15	197	202
20	191	201
25	182	201
30	173	200
35	161	192
40	148	183
45	133	177
50	117	173
55	99	168
60	80	168
65	61	163
70	41	154



1 x 58 W
Efficiency 87.5%
NF C 71–121: 0.80 H + 0.07 T

CANDELA DISTRIBUTION

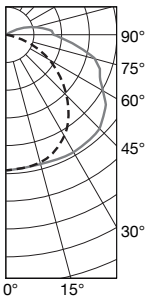
	0–180	90–270
0	198	198
5	197	197
10	194	198
15	190	197
20	184	195
25	176	194
30	166	193
35	155	187
40	142	180
45	128	174
50	113	170
55	96	167
60	78	163
65	59	157
70	41	151



2 x 18 W
Efficiency 85.1%
NF C 71–121: 0.78 H + 0.08 T

CANDELA DISTRIBUTION

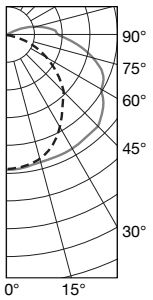
	0–180	90–270
0	195	195
5	195	194
10	192	192
15	187	192
20	181	193
25	173	194
30	163	194
35	152	193
40	138	192
45	124	191
50	108	183
55	91	176
60	73	163
65	55	150
70	37	145



2 x 36 W
Efficiency 80.5%
NF C 71–121: 0.73 H + 0.07 T

CANDELA DISTRIBUTION

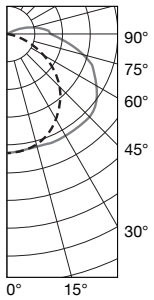
	0–180	90–270
0	185	185
5	185	184
10	182	182
15	178	181
20	172	183
25	164	183
30	154	183
35	143	183
40	131	183
45	117	179
50	102	173
55	85	166
60	68	155
65	51	145
70	35	141



2 x 58 W
Efficiency 76.9%
NF C 71–121: 0.70 H + 0.07 T

CANDELA DISTRIBUTION

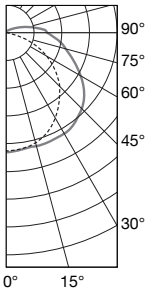
	0–180	90–270
0	173	173
5	172	173
10	170	171
15	166	169
20	161	172
25	154	172
30	145	172
35	135	171
40	123	172
45	111	170
50	97	165
55	82	157
60	66	148
65	50	139
70	34	133



3 x 18 W
Efficiency 68.1%
NF C 71–121: 0.63 G + 0.05 T

CANDELA DISTRIBUTION

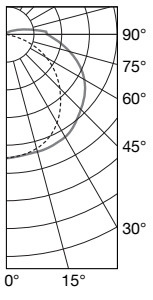
	0–180	90–270
0	173	173
5	172	172
10	169	170
15	135	169
20	160	169
25	153	168
30	144	167
35	135	162
40	123	158
45	110	153
50	96	146
55	82	136
60	66	123
65	50	111
70	34	100



3 x 36 W
Efficiency 68.1%
NF C 71–121: 0.63 G + 0.07 T

CANDELA DISTRIBUTION

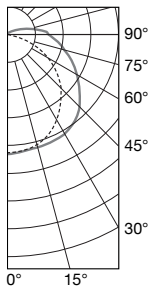
	0–180	90–270
0	174	174
5	174	174
10	171	173
15	167	171
20	162	171
25	155	170
30	146	168
35	136	163
40	125	159
45	112	153
50	98	145
55	83	135
60	67	123
65	51	110
70	35	100



3 x 58 W
Efficiency 65.6%
NF C 71–121: 0.61 H + 0.04 T

CANDELA DISTRIBUTION

	0–180	90–270
0	170	170
5	170	170
10	167	168
15	163	169
20	158	167
25	151	167
30	143	163
35	133	159
40	122	155
45	109	149
50	95	140
55	81	129
60	65	116
65	49	105
70	33	96



Visit our website at **www.appletonelec.com** or contact us at **(800) 621-1506**.
© May 2014