

## Lighting: Fluorescent Lighting

FE Series: Nonmetallic Fluorescent Lighting Fixtures, Standard and Emergency Battery Back-Up – Increased Safety



2 x 58 W



2 x 36 W



2 x 18 W

### Compliance Data:

ATEX - IECEx:



Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IECEx	CE
Ex de IIC Ex demb IIC	T5 to T4	Ex tD A21	T75°C	IP66/67 – IK10

### Power and Voltage:

18 W / 36 W / 58 W	110 to 254 Vac/Vdc +/- 10% 50/60 Hz	Lamp Type
1, 2, 3 Lamp Versions		Fluorescent T8 (G13) & T8 (Fa6)

### Operating Temperature:

-40°C to +55°C				
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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

IP66/67 – IK10

LIGHTING

### Applications:

- Can be installed in hazardous areas designated as Zone 1, 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 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.
- 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 hours emergency version, including multi-tap ballast with built-in monthly self test. Test results through multi-colored LED.
- Ex e battery with plug-in connector for maintenance in hazardous location.

### Standard Materials of Fixture:

- Fiberglass reinforced polyester housing.
- Polycarbonate lens.
- Elastomer gasket.
- Highly reflective white polycarbonate internal reflector.

### Standard Materials of Mounting Accessories:

- 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<sub>2</sub>S hydrogen sulfide environments.
- Without safety switch.
- Level gauge light fitting.
- 316 stainless steel fixing inserts.

### Catalog Number Logic:

FE	X	X	XX	XX	X	X	X
Series: FE = FE Series Zone 1, 2, 21 & 22 ATEX / IEC 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	Mounting Version: P = Pole Mount (1) S = Surface/Suspension Mount Standard Wiring T = Surface/Suspension Mount Through Wiring L = Surface/Suspension Mount Dual Loop in/out Through Wiring (single phase)	Options: (options must be listed alphabetically) C = Silicon Coating for Diffuser E = 3H Emergency (combined) – Battery 6 V - 4 Ah E7 = 3H Emergency (combined) – Battery 6 V - 7 Ah (2) L = Level Gauge Light Fitting (3) N = No Switch (4) X = 4 Entries (5)	Cable Type: A = Armored M20 N = Unarmored M25 U = Unarmored M20	
			Voltage: BU = 110 to 254 Vac/Vdc 50/60 Hz BK = 220 to 240 Vac/Vdc 50/60 Hz				

(1) Only 2 x 18 W and 2 x 36 W with M25 entry versions

(2) Only 36 W and 58 W emergency versions

(3) Only for single standard versions

(4) Only for standard versions

(5) Only for S, T and L mounting versions

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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

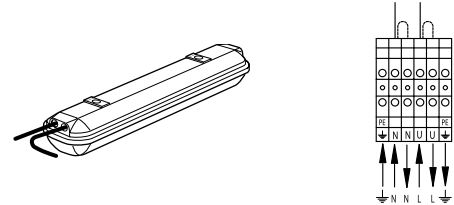
IP66/67 – IK10

### Ordering Information – Standard Version:

#### Surface/Suspension Mounting and Standard Wiring Version:

Connection via 1 x 6 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



#### 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 (dia. 8 to 18.5 mm) and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
1	18	G13	110/254	5.5	32.3	FEB118BUSN	091547 or 096547
2	18	G13	110/254	5.5	32.3	FEB218BUSN	091548 or 096548 or 096363
1	36	G13	110/254	7.9	54.2	FEB136BUSN	091553 or 096553
2	36	G13	110/254	7.9	54.2	FEB236BUSN	091555 or 096555 or 096364
3	36	G13	110/254	9.9	54.2	FEB336BUSN	091534 or 096534
1	58	G13	110/254	9	65	FEB158BUSN	091372 or 096372
2	58	G13	110/254	9	65	FEB258BUSN	091373 or 096373
3	58	G13	110/254	11	65	FEB358BUSN	091542 or 096542

#### 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)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
1	18	G13	110/254	5.5	32.3	FEB118BUSA	091535 or 096535
2	18	G13	110/254	5.5	32.3	FEB218BUSA	091538 or 096538 or 096374
1	36	G13	110/254	7.9	54.2	FEB136BUSA	091543 or 096543
2	36	G13	110/254	7.9	54.2	FEB236BUSA	091545 or 096545 or 096375
3	36	G13	110/254	9.9	54.2	FEB336BUSA	091539 or 096539
1	58	G13	110/254	9	65	FEB158BUSA	091342 or 096342
2	58	G13	110/254	9	65	FEB258BUSA	091343 or 096343
3	58	G13	110/254	11	65	FEB358BUSA	091549 or 096549

#### Unarmored Version - Mono-pin (Fa6):

Three M25 threaded entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland (dia. 8 to 18.5 mm) and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
2	18	Fa6	110/254	5.5	32.3	FEM218BUSN	091579 or 096579
2	36	Fa6	110/254	7.9	54.2	FEM236BUSN	091588 or 096588
2	58	Fa6	110/254	9	65	FEM258BUSN	091550 or 096550

#### Armored Version - Mono-pin (Fa6):

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)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
2	18	Fa6	110/254	5.5	32.3	FEM218BUSA	091367 or 096367
2	36	Fa6	110/254	7.9	54.2	FEM236BUSA	091369 or 096369
2	58	Fa6	110/254	9	65	FEM258BUSA	091382 or 096382

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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

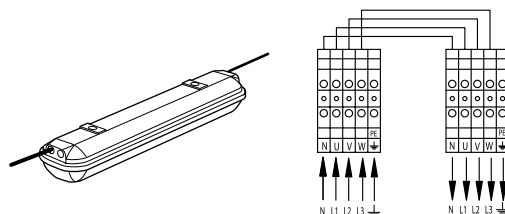
IP66/67 – IK10

### Ordering Information – Standard Version – Continued:

#### Surface/Suspension Mounting and Through Wiring Version (three phase)

Connection via 2 x 5 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



#### Unarmored Version - Bi-pin (G13):

Three M25 threaded entries, two at one end and one at opposite end, supplied with two M25 polyamide cable gland (dia. 8 to 18.5 mm) and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
2	18	G13	110/254	5.5	32.3	FEB218BUTN	091518 or 096518
2	36	G13	110/254	7.9	54.2	FEB236BUTN	091525 or 096525
2	58	G13	110/254	9	65	FEB258BUTN	091383 or 096383

#### Armored Version - Bi-pin (G13):

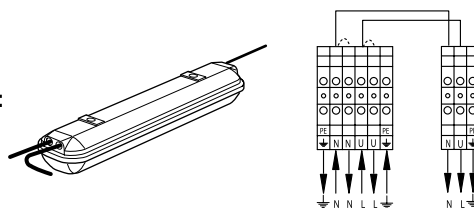
Two M20 threaded entries with brass earth continuity plate at one end and one M20 threaded entry with brass earth continuity plate at opposite end, supplied with one M20 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
2	18	G13	110/254	5.5	32.3	FEB218BUTA	091350 or 096350
2	36	G13	110/254	7.9	54.2	FEB236BUTA	091515 or 096515
2	58	G13	110/254	9	65	FEB258BUTA	091353 or 096353

#### 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 mm<sup>2</sup>/6 mm<sup>2</sup>.



#### Unarmored Version - Bi-pin (G13):

Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands (dia. 8 to 18.5 mm) and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
2	18	G13	110/254	5.5	32.3	FEB218BULN	–
2	36	G13	110/254	7.9	54.2	FEB236BULN	–
2	58	G13	110/254	9	65	FEB258BULN	–

#### 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)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
2	18	G13	110/254	5.5	32.3	FEB218BULA	091307 or 096307
2	36	G13	110/254	7.9	54.2	FEB236BULA	091308 or 096308
2	58	G13	110/254	9	65	FEB258BULA	091309 or 096309

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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

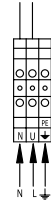
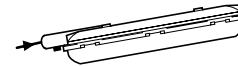
IP66/67 – IK10

### Ordering Information – Standard Version – Continued:

#### Pole Mounting Version

Connection via 1 x 3 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



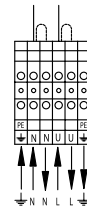
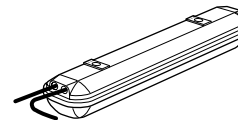
For mounting on dia. 42 mm pole or tubular wall-mounting support, supplied with one integrated M25 polyamide cable gland (dia. 8 to 18.5 mm).

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
2	18	G13	110/254	6.2	34.1	FEB218BUPN	091390 or 096390
2	36	G13	110/254	8.7	54.2	FEB236BUPN	091391 or 096391

#### Level Gauge Tank Light - Surface/Suspension Mounting with Standard Wiring:

Connection via 1 x 6 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



#### Unarmored Version - Bi-pin (G13):

Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland (dia. 8 to 18.5 mm) and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number
1	18	G13	110/254	5.5	32.3	FEB118BUSNL	091531 or 096531
1	36	G13	110/254	7.9	54.2	FEB136BUSNL	091532 or 096532
1	58	G13	110/254	9	65	FEB158BUSNL	091533 or 096533



Can be mounted horizontally or vertically



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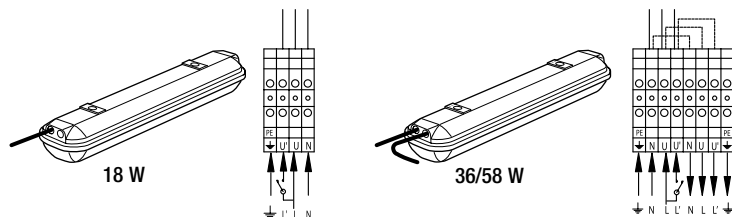
### Ordering Information – Emergency Version:

#### 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 & 58 W versions.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



#### Unarmored Version - Bi-pin (G13):

Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland (dia. 8 to 18.5 mm) and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	G13	110/254	7.3	32.3	3 H	4Ah	FEB218BUSNE	091370 or 096370
2	36	G13	110/254	9.6	54.2	3 H	4Ah	FEB236BUSNE	091371 or 096371
2	36	G13	110/254	9.6	54.2	3 H	7Ah	FEB236BUSNE7	–
3	36	G13	110/254	11.6	54.2	3 H	4Ah	FEB336BUSNE	091384 or 096384
2	58	G13	110/254	10.7	65	3 H	4Ah	FEB258BUSNE	091354 or 096354
2	58	G13	110/254	10.7	65	3 H	7Ah	FEB258BUSNE7	–
3	58	G13	110/254	12.7	65	3 H	4Ah	FEB358BUSNE	091394 or 096394

#### 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)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	G13	110/254	7.3	32.3	3 H	4 Ah	FEB218BUSAE	091340 or 096340
2	36	G13	110/254	9.6	54.2	3 H	4 Ah	FEB236BUSAE	091341 or 096341
2	36	G13	110/254	9.6	54.2	3 H	7 Ah	FEB236BUSAE7	–
3	36	G13	110/254	11.6	54.2	3 H	4 Ah	FEB336BUSAE	091385 or 096385
2	58	G13	110/254	10.7	65	3 H	4 Ah	FEB258BUSAE	091344 or 096344
2	58	G13	110/254	10.7	65	3 H	7 Ah	FEB258BUSAE7	–
3	58	G13	110/254	12.7	65	3 H	4 Ah	FEB358BUSAE	091395 or 096395

#### Unarmored Version - Mono-pin (Fa6):

Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland (dia. 8 to 18.5 mm) and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	Fa6	110/254	7.6	32.3	3 H	4 Ah	FEM218BUSNE	096910
2	36	Fa6	110/254	9.9	54.2	3 H	4 Ah	FEM236BUSNE	096911
2	36	Fa6	110/254	9.9	54.2	3 H	7 Ah	FEM236BUSNE7	–
2	58	Fa6	110/254	11	65	3 H	4 Ah	FEM258BUSNE	096912
2	58	Fa6	110/254	11	65	3 H	7 Ah	FEM258BUSNE7	–

#### Armored Version - Mono-pin (Fa6):

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)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	Fa6	110/254	7.6	32.3	3 H	4 Ah	FEM218BUSAE	096920
2	36	Fa6	110/254	9.9	54.2	3 H	4 Ah	FEM236BUSAE	096921
2	36	Fa6	110/254	9.9	54.2	3 H	7 Ah	FEM236BUSAE7	–
2	58	Fa6	110/254	11	65	3 H	4 Ah	FEM258BUSAE	096922
2	58	Fa6	110/254	11	65	3 H	7 Ah	FEM258BUSAE7	–

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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

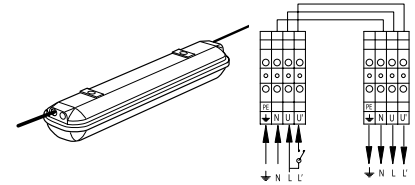
IP66/67 – IK10

### Ordering Information – Emergency Version – Continued:

#### Surface/Suspension Mounting and Through Wiring Version

Connection via 2 x 4 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



#### Unarmored Version - Bi-pin (G13):

Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands (dia. 8 to 18.5 mm) and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	Bi-pin	110/254	7.3	32.3	3 H	4 Ah	FEB218BUTNE	091380 or 096380
2	36	Bi-pin	110/254	9.6	54.2	3 H	4 Ah	FEB236BUTNE	091381 or 096381
2	36	Bi-pin	110/254	9.6	54.2	3 H	7 Ah	FEB236BUTNE7	–
2	58	Bi-pin	110/254	10.7	65	3 H	4 Ah	FEB258BUTNE	–
2	58	Bi-pin	110/254	10.7	65	3 H	7 Ah	FEB258BUTNE7	–

#### 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)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	Bi-pin	110/254	7.3	32.3	3 H	4 Ah	FEB218BUTAE	–
2	36	Bi-pin	110/254	9.6	54.2	3 H	4 Ah	FEB236BUTAE	–
2	36	Bi-pin	110/254	9.6	54.2	3 H	7 Ah	FEB236BUTAE7	–
2	58	Bi-pin	110/254	10.7	65	3 H	4 Ah	FEB258BUTAE	–
2	58	Bi-pin	110/254	10.7	65	3 H	7 Ah	FEB258BUTAE7	–

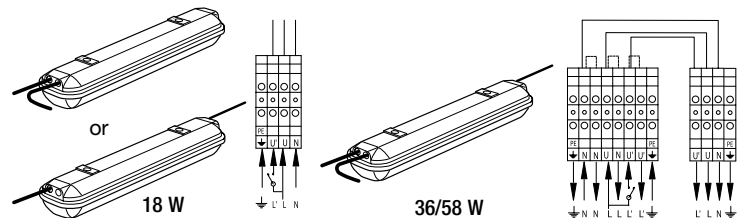
#### Surface/Suspension Mounting and Dual Loop

##### 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 & 58 W versions.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



#### Unarmored Version - Bi-pin (G13):

Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands (dia. 8 to 18.5 mm) and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	Bi-pin	110/254	7.6	32.3	3 H	4 Ah	FEB218BULNE	–
2	36	Bi-pin	110/254	9.9	54.2	3 H	4 Ah	FEB236BULNE	–
2	36	Bi-pin	110/254	9.9	54.2	3 H	7 Ah	FEB236BULNE7	–
2	58	Bi-pin	110/254	10.7	65	3 H	4 Ah	FEB258BULNE	–
2	58	Bi-pin	110/254	10.7	65	3 H	7 Ah	FEB258BULNE7	–

#### 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)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	Bi-pin	110/254	7.6	32.3	3 H	4 Ah	FEB218BULAE	091330 or 096330
2	36	Bi-pin	110/254	9.9	54.2	3 H	4 Ah	FEB236BULAE	091331 or 096331
2	36	Bi-pin	110/254	9.9	54.2	3 H	7 Ah	FEB236BULAE7	–
2	58	Bi-pin	110/254	10.7	65	3 H	4 Ah	FEB258BULAE	091332 or 096332
2	58	Bi-pin	110/254	10.7	65	3 H	7 Ah	FEB258BULAE7	–



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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

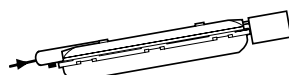
IP66/67 – IK10

### Ordering Information – Emergency Version – Continued:

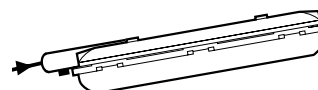
#### Pole Mounting Version

Connection via 1 x 4 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



18 W - Actual Size 2'



36 W - Actual Size 4'



For mounting on dia. 42 mm pole or tubular wall-mounting support, supplied with one x M25 polyamide cable gland (dia. 8 to 18.5mm).

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight (kg)	Volume (dm <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number	Old Catalog Number
2	18	Bi-pin	110/254	10	54.2	3 H	4 Ah	FEB218BUPNE	091392 or 096392
2	36	Bi-pin	110/254	10.4	54.2	3 H	4 Ah	FEB236BUPNE	091393 or 096393
2	36	Bi-pin	110/254	10.4	54.2	3 H	7 Ah	FEB236BUPNE7	–

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

### Accessories:

	Description	Catalog Number	Old Catalog Number	Pack
	<b>Fixing Brackets</b> Set of two brackets for surface installation			
	Zinc plated steel 316 stainless steel	FEFBZ FEFBS	096596 096589	1 1
	<b>Brackets for Surface Mounting</b> Set of two			
	Aluminum (gray painted) 316 stainless steel	FESBA FESBS	096597 096590	1 1
	<b>M8 Ring Bolts</b> Set of two			
	Zinc plated steel	FERBM8Z	096594	1
	<b>Half Clamps Brackets for Pole Mounting</b> Set of two			
	Dia. 42 to 49 mm pole (1-1/4" to 1-1/2" tube)			
	Zinc plated steel 316 stainless steel	FEHC49Z FEHC49S	096593 096793	1 1
	Dia. 60 mm pole (2" tube)			
	Zinc plated steel 316 stainless steel	FEHC60Z FEHC60S	096591 096791	1 1
	<b>Wall Mounting Adaptor</b> For pole mounting version (dia. 42 mm)			
	Galvanized steel	FEWMG	096595	1
	<b>Hinged Brackets</b> Set of two brackets for adjusting luminaire			
	Aluminum 316 stainless steel	FEHBA FEHBS	096598 096574	1 1
	<b>Fall Prevention Kit</b> Safety chain retains fixture temporarily to ease installation			
	For M25 cable entry For M20 cable entry	FESCM25 FESCM20	096405 096406	1 1
	<b>Adaptor for Fa8 tube on Fa6 Lampholder</b>	096905	096905	1



# Lighting: Fluorescent Lighting

## FE Series: Nonmetallic Fluorescent Lighting Fixtures, Standard and Emergency Battery Back-Up – Increased Safety

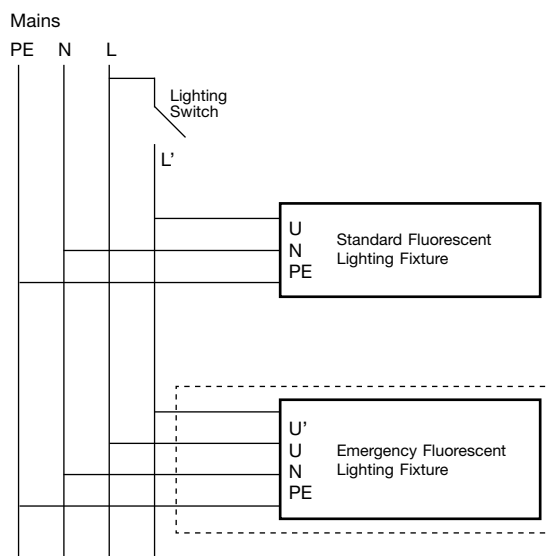
Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEX

IP66/67 – IK10

### 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 glows LED blinks	Batteries are connected Batteries are charged
Red	LED blinks	Batteries are not connected or defect
Yellow	LED blinks	Batteries are charging and discharging during automatic cycle

### Emergency Light Duration:

Version	Battery Capacity	Duration	Emergency Light Output
2 x 18 W	4 Ah – 6 V	3 hours	45%
2 x 36 W	4 Ah – 6 V	3 hours	15%
	7 Ah – 6 V	3 hours	25%
2 x 58 W	4 Ah – 6 V	3 hours	9%
	7 Ah – 6 V	3 hours	15%

# Lighting: Fluorescent Lighting

## FE Series: Nonmetallic Fluorescent Lighting Fixtures, Standard and Emergency Battery Back-Up – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

IP66/67 – IK10

### Compliances:

Hazardous Area	Gas	Dust
Certified Type	FLe	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 Ex II 2 G	CE 0081 Ex II 2 D
Symbol of Protection ATEX	Ex de IIC or Ex demb IIC (emergency version)	Ex tD A21
Symbol of Protection IEC		
T Rating	T5(1) to T4	N.A.
Surface Temperature	N.A.	75°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50201	
ATEX Certificate	LCIE 07 ATEX 6017	
IECEx Certificate	IECEx LCI 04.0017	
Other Certifications	GOST, Marine Listed UL 1598A	
Index of Protection	IP66/67	
Impact Resistance (shock)	IK10	

(1) with ceiling position use at +40°C ambient temperature

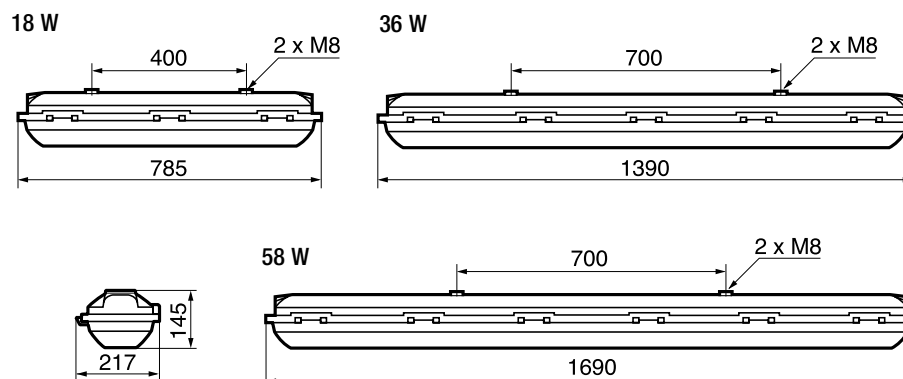
### Standards:

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)

### Dimensions (mm):

#### Fluorescent Lighting Fixtures:

#### Surface/Suspension Mounting



## Lighting: Fluorescent Lighting

### FE Series: Nonmetallic Fluorescent Lighting Fixtures, Standard and Emergency Battery Back-Up – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEX

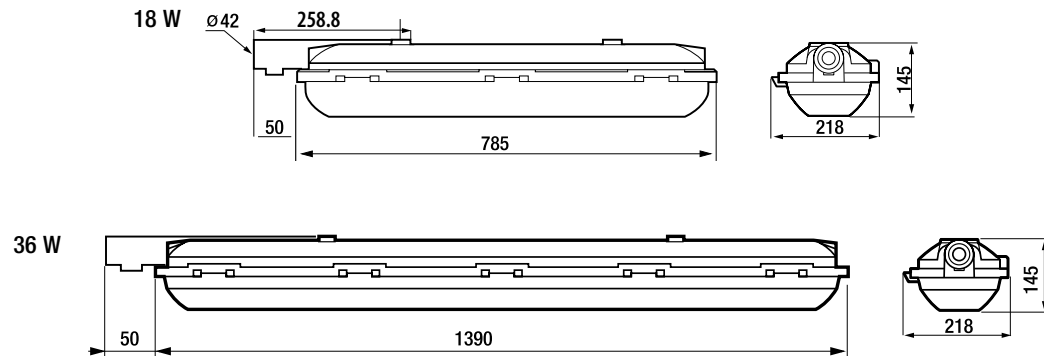
IP66/67 – IK10

LIGHTING

#### Dimensions (mm) – Continued:

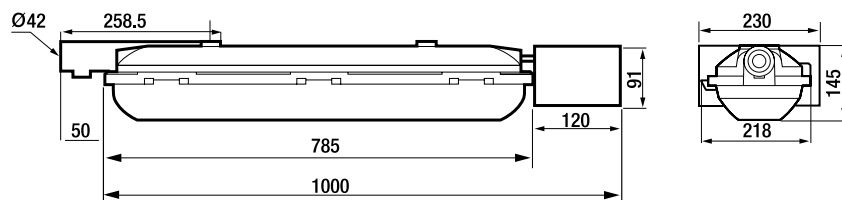
##### Fluorescent Lighting Fixtures:

##### Pole Mounting



##### 18 W Emergency Pole Mounting:

##### 18 W Emergency Pole Mounting



##### Fixing Accessories:

Set of two quick fixing brackets for ease of surface mounting Zinc plated steel or stainless steel



# Lighting: Fluorescent Lighting

## FE Series: Nonmetallic Fluorescent Lighting Fixtures, Standard and Emergency Battery Back-Up – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

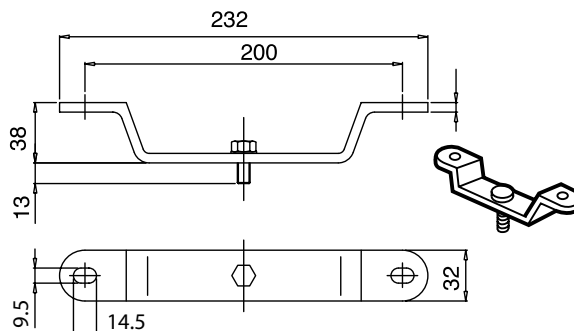
ATEX / IECEx

IP66/67 – IK10

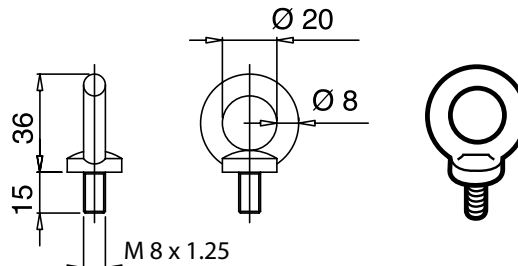
LIGHTING

### Fixing Accessories – Continued:

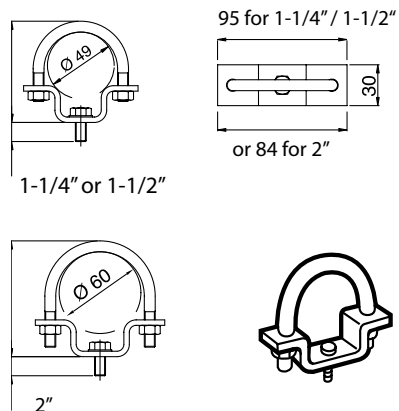
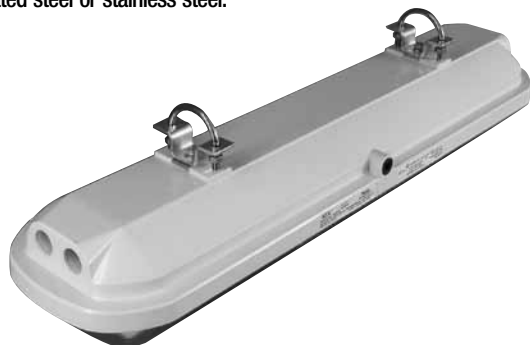
Set of two brackets for surface mounting.  
Gray painted aluminum or stainless steel.



Set of two ring bolts.  
Zinc plated steel.



Set of two clamps for pole dia. 42 mm to 60 mm (1-1/4" to 2").  
Zinc plated steel or stainless steel.



## FE Series: Nonmetallic Fluorescent Lighting Fixtures, Standard and Emergency Battery Back-Up – Increased Safety

**Zone 1 & 2 – 21 & 22**

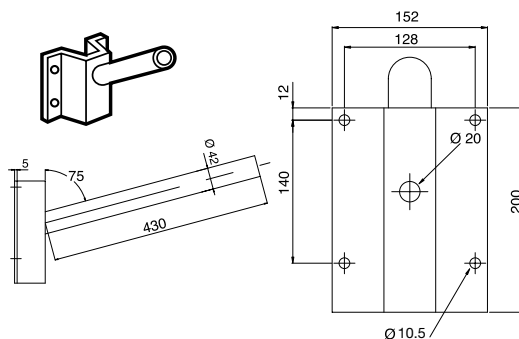
**ε<sub>x</sub> II 2 GD**

**ATEX / IECEx**

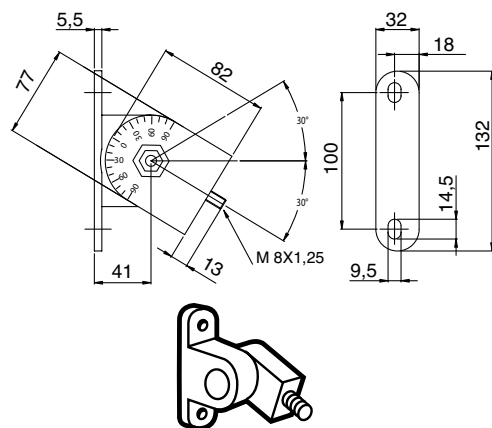
**IP66/67 – IK10**

### Fixing Accessories – Continued:

42 mm dia. galvanized steel wall mounting pole.

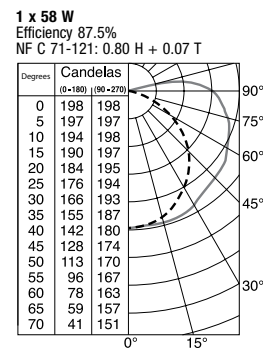
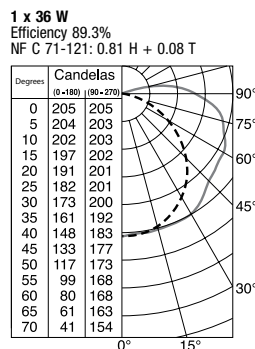
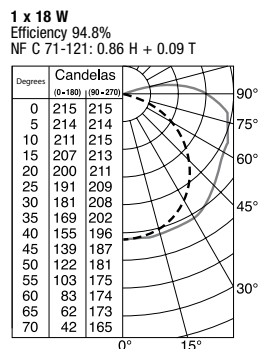


**Set of two hinged brackets for adjusting luminaire.**  
Gray painted aluminum or stainless steel.

**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



# Lighting: Fluorescent Lighting

## FE Series: Nonmetallic Fluorescent Lighting Fixtures, Standard and Emergency Battery Back-Up – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

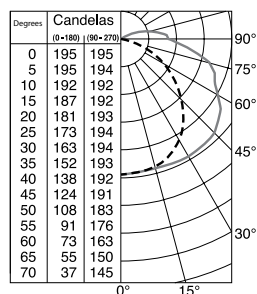
IP66/67 – IK10

### Photometric Data – Continued:

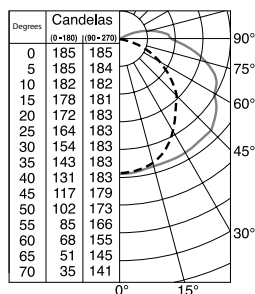
Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

--- Longitudinal  
— Transverse

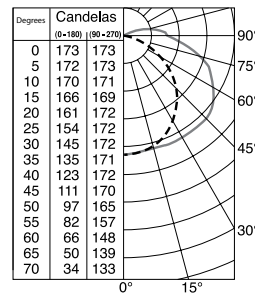
**2 x 18 W**  
Efficiency 85.1%  
NF C 71-121: 0.78 H + 0.08 T



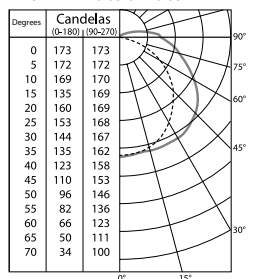
**2 x 36 W**  
Efficiency 80.5%  
NF C 71-121: 0.73 H + 0.07 T



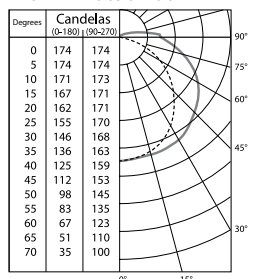
**2 x 58 W**  
Efficiency 76.9%  
NF C 71-121: 0.70 H + 0.07 T



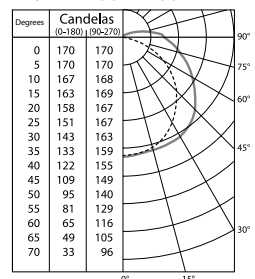
**3 x 18 W**  
Efficiency 68.1%  
NF C 71-121: 0.63 G + 0.05 T



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



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



### North American CEC/NEC Certification:

In a separate, comprehensive catalog, Appleton also offers a complete line of products for hazardous locations, fully tested to NEC and CEC standards. Ask your local representative about the Appleton brand or visit the Appleton web site at: [www.appletonelec.com](http://www.appletonelec.com) for details.

### Compliances:

- Class I, Div. 2, Groups A, B, C & D.
- Class II, Div. 2, Groups E & G.
- Marine Type Electric Fixture Outside Type (Salt Water).
- NEMA 4X

### Materials:

- Fiberglass reinforced polyester housing.
- Polycarbonate lens.
- Stainless steel hubs.

### Features:

- No tools required to access lamps.
- Integral switch disconnects power to ballast and lamps when lens is opened.

### Wattage Range:

- (2) or (4) 40 W F40VX PL Fluorescent.
- (2) 32 W T8 Linear Fluorescent.
- (2) 44 W T8-H0 Linear Fluorescent.



Fluorescent Luminaire "FV Series"

- (2) 40 W T12 Linear Fluorescent.
- (2) 60 W T12-H0 Linear Fluorescent.
- (3) 32 W T8 Linear Fluorescent.

### Input Voltage and Frequency:

- 120 V, 60 Hz
- 277 V, 60 Hz
- Others upon request

Refer to Appleton Master Catalog Section F3 for more information.