Standard and Emergency Back-Up. Zone 2 & 22

Zone 2 and 22 Gas (G) and Dust (D)

Applications

- Light duty luminaire ideal for commercial and light industrial locations including hazardous areas designated as Zone 2 or 22 environments.
- Typical applications include oil refineries petrochemical plants, pulp and paper mills, tunnels and other light duty manufacturing locations.

Features

- Utilizes two 26 mm (T8) bi-pin fluorescent lamps.
- Fiberglass reinforced polyester housing.
- Instant start 95% power factor ballast.
- Available in various lengths and wattages ranging from 18 to 58.
 Pre-impregnated fiberglass reinforced white polyester housing.
- · Closing system using stainless steel clips.
- Electrostatically applied white powder painted steel reflector provides optimal lighting distribution.
- Poured-in-place elastomer gasket secures IP65 / 67 ingress protection.

Standard Material

- Fiberglass reinforced polyester (FRP) housing
- Polycarbonate lens
- · White powder painted sheet steel reflector
- Elastomer gasket
- Polycarbonate lampholders
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

Options

- Available in 3 hours emergency version, including multi-tap ballast with built-in monthly self test. Test results through multicolored LED.
- Plug-in battery pack is easy to remove for maintenance.
- Battery voltage is 6 volts and 4 Ah capacity.
- One fluorescent tube remains lit for up to 3 hours and up to 29% light intensity for 18 Watt, 15% for 36 Watt and 9% for 58 Watt
- All emergency units supplied with cut off switch to battery when fixture is opened.





2 x18 W

Certifications and Compliances

♦ATEXCertification

- Certification Type: EFn (Standard Version) / EFn-EM (Emergency Version)
 - Gaz: Zone 2

 - Type of Protection: Ex nR II or Ex nA II
 - T Rating: T4 for nA protection mode. (T3 for 2x58W Version)
 See temperature chart for nR protection mode
 - Dust: Zone 22
 - Conforming to ATEX 94/9/CE: W II 3 D
 - Type of Protection: Ex tD A22
 - Surface Temperature: See Table on following page
 - Ambient Temperature: -20 °C to +55 °C
 - CE Declaration of Conformity: 50213/50219
 - ATEX Certificate:
 - EFn (Standard Version): LCIE 08.6005X
 - EFn-EM (Emergency Version): LCIE 08.6063X
 - Index of Protection (solid & liquid): IP65 / 67

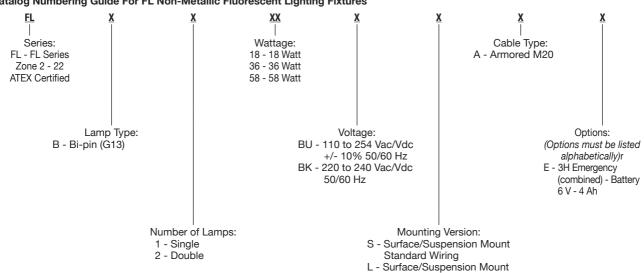
♦EURASEC Certification

— EURASEC N° TC RU C-FR.гь05.В.00912

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Order using catalog numbering guide below or select catalog number from tables on following pages. Catalog Numbering Guide For FL Non-Metallic Fluorescent Lighting Fixtures



Dual Loop in/out Through Wiring (single phase)

Temperature Chart

	Dust		Gas	
Version	Surface Temp. for $Ta = +55^{\circ} C$	T Rating for Ta = 40° C	T Rating for Ta = 50°C	T Rating for Ta = 55°C
1 x 18 W	7500	Т6	Т6	Т6
2 x 18 W	75°C	Т6	Т5	Т5
1 x 36 W	83°C	Т6	Т6	Т5
2 x 36 W	83 C	Т6	Т6	Т5
1 x 58 W	0400	T5	Т5	T5
2 x 58 W	91°C	T5	Т5	T5

Standard and Emergency Back-Up. Zone 2 & 22

Zone 2 and 22 Gas (G) and Dust (D)

Standard Version for Armored and Unarmored Cable

Supplied with one M20 cable entry at each end plus two locknuts, two earth continuity and one blanking plug. Also supplied with one $2 \times (3 \times 2.5 \text{ mm}^2)$ max. flexible or rigid connection terminal block.

Number of Lamps	Watts	Voltage (V)	Weight kg	Volume dm³	Pack.	Catalog Number
1	18	220/240	2.3	22.3	1	FLB118BKSA
2	18	220/240	2.3	22.3	1	FLB218BKSA
2	18	110/254	2.3	22.3	1	FLB218BUSA
1	36	220/240	2.8	38	1	FLB136BKSA
1	36	110/254	2.8	38	1	FLB136BUSA
2	36	220/240	3.6	38)	1	FLB236BKSA
2	36	110/254	3.6	38	1	FLB236BUSA
1	58	220/240	3.4	45	1	FLB158BKSA
1	58	110/254	3.4	45	1	FLB158BUSA
2	58	220/240	4.4	45	1	FLB258BKSA
2	58	110/254	4.4	45	1	FLB258BUSA

Emergency Version for Armored and Unarmored Cable

Supplied with one M20 entries with earth continuity at each end. Also supplied with two M20 locknuts and one blanking plug. Equipped with one 2 x (5 x 2.5 mm²) max. flexible or rigid connection terminal block

Number of Lamps	Watts	Voltage (V)	Weight kg	Volume dm³	Pack.	Catalog Number
2	18	110/254	4.5	22.3	1	FLB218BUSAE
2	36	110/254	7.0	38	1	FLB236BUSAE
2	58	110/254	7.5	45	1	FLB258BUSAE

Shaded catalog numbers are normally stocked items. All other items are made to order.



Standard and Emergency Back-Up. Zone 2 & 22

Zone 2 and 22 Gas (G) and Dust (D)

	Description	Catalog Number
Fixing Brackets		
	Set of two brackets for surface installation	
	Zinc plated steel	FEFBZ
	316 stainless steel	FEFBS
Brackets for Surface Mounting		
	Set of two	
	Aluminium (gray painted)	FESBA
	316 stainless steel	FESBS
M8 Ring Bolts		
	Set of two	
(\bigcirc)	Zinc plated steel	FERBM8Z
Half Clamps Brackets for Pole Mo	unting	
	Set of two	
	For 42 mm to 49 mm pole (1-1/4 to 1-1/2" tube)	
	Zinc plated steel	FEHC49Z
	316 stainless steel	FEHC49S
	For 60 mm pole (2" tube)	
	Zinc plated steel	FEHC60Z
	316 stainless steel	FEHC60S
Hinged Brackets		
ര	Set of two brackets for adjusting luminaire	
S	Aluminium	FEHBA
	316 stainless steel	FEHBS
Fall Prevention Kit		
	Safety chain retains fixture temporarily to ease installation	
	For M20 cable entry	FESCM20

Standard and Emergency Back-Up. Zone 2 & 22

Zone 2 and 22 Gas (G) and Dust (D)

Emergency Function Diagram — Emergency Function 2 Tubes

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Mains	Lighting Switch ON	Lighting Switch OFF
Fluorescent Luminaire ON		
Fluorescent Luminaire OFF		

Photometric Data

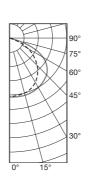
Polar curves for a 1000 lm flux, according to NF C 71-120 Luminaire symbol according to NF C 71-121

Longitudinal
 Transverse

1 x 18 W Efficiency 67.8% NF C 71–121: 0.58 H + 0.09 T

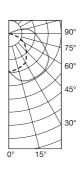
CANDELA DISTRIBUTION

	0-180	90-270
0	142	142
5	142	142
10	139	140
15	135	135
20	130	132
25	123	128
30	113	126
35	102	128
40	90	132
45	78	136
50	66	134
55	54	131
60	43	129
65	33	119
70	23	110



2 x 18 W Efficiency 68.9% NF C 71–121: 0.60 H + 0.09 T

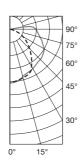
CANDELA DISTRIBUTION				
	0-180	90-270		
0	116	116		
5	115	119		
10	113	133		
15	110	150		
20	105	156		
25	100	157		
30	94	158		
35	88	159		
40	81	158		
45	74	157		
50	65	152		
55	55	145		
60	45	137		
65	35	128		
70	25	114		



2 x 36 W Efficiency 64.1% NF C 71–121: 0.57 H + 0.07 T

CANDELA DISTRIBUTION

UAI	CANDELA DISTRIBUTION				
	0-180	90-270			
0	163	163			
5	162	162			
10	160	159			
15	155	145			
20	149	140			
25	142	139			
30	132	139			
35	120	138			
40	104	134			
45	80	133			
50	60	129			
55	50	125			
60	40	120			
65	31	108			
70	23	95			



2 x 58 W Efficiency 63.6% NF C 71–121: 0.56 H + 0.07 T

CANDELA DISTRIBUTION 0-180 90-270 5 159 160 10 15 157 157 153 146 20 148 140 25 141 139 30 132 139 35 40 121 107 138 134 45 85 132 50 68 127 56 122 60 45 117 35 65 107 70 90

