

# Explosion Proof Tubular Fluorescent Fitting XFF / XFR Range



XFF Tubular fluorescent fitting - zones 1, 2, 21 & 22



### Features

- All components mounted on sliding gear tray for easy installation and maintenance
- Standard components used inside body allowing reduced maintenance costs
- Including accessories (cable gland, plug & fixing brackets)
- Supplied with offshore grade paint

XFF Tubular fluorescent fitting

### Approvals & certifications



### Specifications

Manufactured from marine grade aluminum alloy copper free  
Borosilicate glass - thickness 7mm  
Rated voltage 100-240Vac 50/60Hz 12-110Vdc  
Wiring configuration: 5 wires  
2x entries 3/4" NPT  
Emergency version (Type: "EM" version 3h battery duration)

### Standards

<b>Approved to:</b>	EN 60079-0: General requirements
	EN 60079-1: Flameproof enclosure "d"
	EN 60079-31 : Enclosure "t"
<b>ATEX Directive 2014/34/EU</b>	INERIS 11 ATEX 0051X Ex d IIB or IIC T6 Gb for -20°C to + 55°C Ex tb IIIC T80°C or T70°C Db IP66 for -20°C to + 55°C
<b>EMC Directive (2014/30/EU)</b>	EN 55015: Conducted emission test and radiated emission test EN 61547: CEM immunity EN 61000-3-2: Harmonic current Emissions Class C EN 61000-3-3: Limitation of voltage changes and flickers
<b>Low voltage Directive (2014/35/EU)</b>	EN 60598-1: Luminaire general requirements and tests, including dielectric strength and isolation resistance
<b>Glow wire test:</b>	960°C
<b>Operating temperature:</b>	-20°C to +55°C XFF -10°C to +50°C XFF EM
<b>IP test:</b>	IEC 60529: IP66
<b>Impact protection index:</b>	IEC 62262: IK08

01 Disconnect power supply

02 Removeable fluorescent gear tray for easy replacement

01

02



# Explosion Proof Tubular Fluorescent Fitting

## XFF / XFR Range

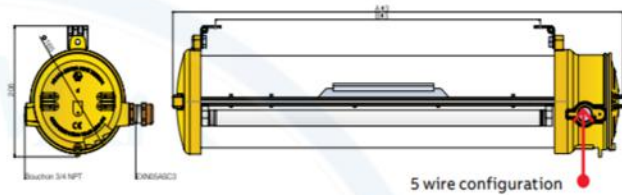
### Zone 1,2,21,22



#### XFF Tubular Fluorescent fitting

- 5 wires
- Glass Diffuser
- Equipped with 1 cable gland & 1 plug
- Suitable for use in Zones 1, 2, 21, 22

#### Dimensions



XFF 5 wires: Glass Diffuser Equipped with 1 cable gland & 1 plug

Type	Wiring Configuration	Light Rating W	Current A @ 230V	Diffuser	Gas	Dimensions mm		Weight kg
						A	B	
XFR120V-0G000	5 wires	1 x 18	0.15	Glass	IIC	780	565	10.60
XFR140V-0G000	5 wires	1 x 36	0.20	Glass	IIB	1390	1175	15.00
XFR165V-0G000	5 wires	1 x 58	0.35	Glass	IIB	1690	1475	18.60
XFF220V-0G000	5 wires	2 x 18	0.30	Glass	IIC	780	565	10.60
XFF240V-0G000	5 wires	2 x 36	0.40	Glass	IIB	1390	1175	15.03
XFF265V-0G000	5 wires	2 x 58	0.50	Glass	IIB	1690	1475	18.60

#### Technical information

General data	
Lamps	Fluorescent Lamp (order separately) T8 bi-pin tube, lampholder G13, diameter 26mm - white industry 4000°K
Photometric curve	See page 189
Rated voltages	Electronic ballast: 100- 240Vac 50/60Hz - 110Vdc
Power factor	0.98
Wiring Configuration	5 wires
Dielectrical class	I
Grounding system	TNS, TNC, TT, IT neutral system

General data	
External grounding lug	Screw M4x20 (stainless steel 316L) (nearby cable gland)
Terminal block (screws plug in terminal block)	2.5mm <sup>2</sup> rigid or flexible Terminals supplied L1, L2, L3, N, PE (looping possible with one additional cable gland)
Cable entries	Two entries 3/4" NPT Included: One 3/4" nickel plated brass plug (EXN/075/SP) and one 3/4" nickel plated brass cable gland for non armoured cable, diameter 6-12mm (EXN05ASC3)
Casting	Marine grade aluminum alloy according to standard EN1706. Borosilicate glass thickness 7mm.
Colour of casting (std)	● XF****-00000 - Yellow offshore, RAL 1003
Colour options:	● XF****-B0000 - Grey, RAL 7035
Fixing (included with product)	D023- 2x zinc plated steel articulated brackets for ceiling mounting



# Explosion Proof Tubular Fluorescent Fitting

## XFF / XFR Range

### Zone 1,2,21,22



### Tubular fittings

XFF EM Emergency tubular fluorescent fitting - 3h - zones 1, 2 & 21, 22

3 wires: Glass Diffuser Equipped with 1 cable gland & 1 plug

Type	Wiring Configuration	Light Rating W	Current A @ 230V	Diffuser	Gas	Dimensions mm		Weight kg
						A	B	
XFR120VEM-0G000	3 wires	1 x 18	0.15	Glass	IIC	780	565	12.40
XFR140VEM-0G000	3 wires	1 x 36	0.20	Glass	IIB	1390	1175	16.60
XFF220VEM-0G000	3 wires	2 x 18	0.30	Glass	IIC	780	565	12.40
XFF240VEM-0G000	3 wires	2 x 36	0.40	Glass	IIB	1390	1175	16.60

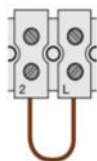
### Electrical Features

General data		General data	
<b>Lamps</b>	Fluorescent Lamp (order separately) T8 bi-pin tube, lampholder G13, diameter 26mm - white industry 4000°K	<b>Terminal block (screws plug in terminal block)</b>	2.5mm <sup>2</sup> rigid or flexible Terminals supplied L1, L2, L3, N, PE (looping possible with one additional cable gland)
<b>Photometric curve</b>	See page 189	<b>Cable entries</b>	Two entries 3/4" NPT Included: One 3/4" nickel plated brass plug (EXN/075/SP) and one 3/4" nickel plated brass cable gland for non armoured cable, diameter 6-12mm (EXN05ASC3)
<b>Rated voltages</b>	Electronic ballast: 100- 240Vac 50/60Hz	<b>Casting</b>	Marine grade aluminum alloy according to standard EN1706. Borosilicate glass thickness 7mm.
<b>Power factor</b>	0.98	<b>Fixing (included with product)</b>	D023- 2x zinc plated steel articulated brackets for ceiling mounting
<b>Wiring Configuration</b>	3 wires		
<b>Battery</b>	Battery NiCd 6V 4Ah for XFR120, XFF220 Battery NiCd 6V 7Ah for XFR140, XFF240, XFR165, XFF265 Lumen output in emergency mode (1 lamp lit) 3 hours: 24% for XFR120, XFF220 3 hours: 18% for XFR140, XFF240 3 hours: 14% for XFR165, XFF265 Monitored by LED		

### Emergency function diagrams

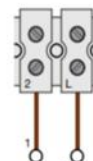
#### Wiring provided by DTS

Maintained Mode	Mains Supply	Tube	Battery
	ON	OFF	Charging
	OFF	Only emergency tube lit	Discharging



#### Switch between L/2

Non Maintained Mode *	Mains Supply	Tube	Battery
	ON	OFF	Charging
	OFF	Only emergency tube lit	Discharging




\* This table corresponds to the position 0 "open".  
If the switch is on position 1 "close", refer to the table on the left

# Explosion Proof Tubular Fluorescent Fitting

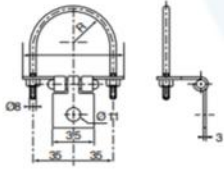
## XFF / XFR Range

### Zone 1,2,21,22



Bipin T8 fluorescent lamps	Type	Power W	Lumen output lm	Lampholder	Specifications
	TL18W	18	1250	G13	G13 - ø 2.6mm
	TL36W	36	3350	G13	Colour temperature: White industry 4000°K
	TL58W	58	5200	G13	CRI: > 80 lm/W: 65 to 93 Average operating life: 12000 hours

Hinged bracket	Type	Specifications
	D023	2x zinc plated steel articulated brackets for ceiling mounting (included with product)
	D024	2x stainless steel 304L articulated brackets for ceiling mounting

U-bolt for pole mounting	Type	Specifications
	D025	2x U-bolt and 2x zinc plated steel brackets for pole mounted 1" 1/4
	D026	2x U-bolt and 2x zinc plated steel brackets for pole mounted 1" 1/2
	D027	2x U-bolt and 2x zinc plated steel brackets for pole mounted 2"
	D029	2x U-bolts and 2x stainless steel brackets (304L) for pole mounted 1" 1/2
	D030	2x U-bolts and 2x stainless steel brackets (304L) for pole mounted 2"

# Explosion Proof Tubular Fluorescent Fitting

## XFF / XFR Range

### Zone 1,2,21,22



### Tubular fittings - accessories & spare parts

XFF - zones 1, 2 & 21, 22

#### Shock proof kit

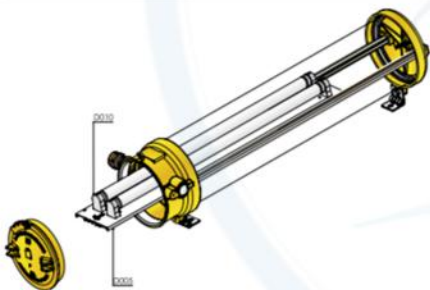


#### Type

#### Specifications

D034	Stainless steel 304L canopy & shock proof kit for XFRL120, XFFL220
D035	Stainless steel 304L canopy and shock proof kit for XFRL140, XFFL240
D036	Stainless steel 304L canopy and shock proof kit for XFRL165, XFFL265

#### Spare parts



#### Type

#### Specifications

D003	Gasket
D0051X20WE	Gear tray with electronic ballast 110-260Vac/Vdc, 50-60 Hz for XFR120
D0051X20WEM	Emergency Gear tray with electronic ballast 220-240Vac/Vdc, 50-60 Hz for XFR120EM
D0051X40WE	Gear tray with electronic ballast 110-260Vac/Vdc, 50-60 Hz for XFR140
D0051X40WEM	Emergency Gear tray with electronic ballast 220-240Vac/Vdc, 50-60 Hz for XFR140EM
D0051X65WE	Gear tray with electronic ballast 110-260Vac/Vdc, 50-60 Hz for XFR165
D0052X20WE	Gear tray with electronic ballast 110-260Vac/Vdc, 50-60 Hz for XFF220
D0052X20WEM	Emergency Gear tray with electronic ballast 220-240Vac/Vdc, 50-60 Hz for XFF220EM
D0052X40WE	Gear tray with electronic ballast 110-260Vac/Vdc, 50-60 Hz for XFF240
D0052X40WEM	Emergency Gear tray with electronic ballast 220-240Vac/Vdc, 50-60 Hz for XFF240EM
D0052X65WE	Gear tray with electronic ballast 110-260Vac/Vdc, 50-60 Hz for XFF265
D010	Lampholder for T8 lamp
D016	Battery pack for XFF EM
EXEXN05ASC3K	Kit 3/4 NPT Exd Exe IIC Ex-td nickel plated cable gland for non armoured cable diameter 6-12mm