

Lighting: Fluorescent & LED Lighting Fixture, DFP-C Series (Capsule end cap)

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

The DFP series can be used worldwide and is suitable for lighting applications in hazardous areas, such as onshore and offshore platforms or refineries. The different light families ensure optimal performance in various environments.

The DFP series consists of a glass tube with two end caps. It is designed for the installation of both single and double T5 and T8 bi-pin fluorescent or LED tubes. The end cap and threaded capsule house the ballast and terminal connections.

Specification

Body material	: Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey) (optional offshore painting- acrylic polyurethane coating)
Glass tube	: Borosilicate glass (4J impact)
Reflector	: Sheet steel with polyester powder coated, RAL 9016 (white)
Protective guard	: Stainless steel, SS 304 (optional SS 316)
Bolts	: Stainless steel, SS 304 (optional SS 316)
Sealing (O-ring)	: Silicone

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	Ex d IIB 2G	Ex tb IIIC 2D
Symbol of Protection	Ex d IIB T6 Gb	Ex tb IIIC T85°C Db
Certificate	Sira 12 ATEX 1311X	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31	
Ambient Temperature	-20°C to +50°C	
Index of Protection	IP66	
Entry Threads	2x M20x1.5, 2x M25x1.5 (with 1x stopping plug) or 2x 1/2" NPT, 2x 3/4" NPT (with 1x stopping plug)	
Mounting	Ceiling (standard), Pendant or Bracket	
Connection	L, N and PE ; for 1-4 mm ² cable (Through wiring system with an extra terminal block for cable connection at both ends.)	
Rated Voltage	110-240 V AC, 50/60 Hz (P.F. ≥ 0.98)	



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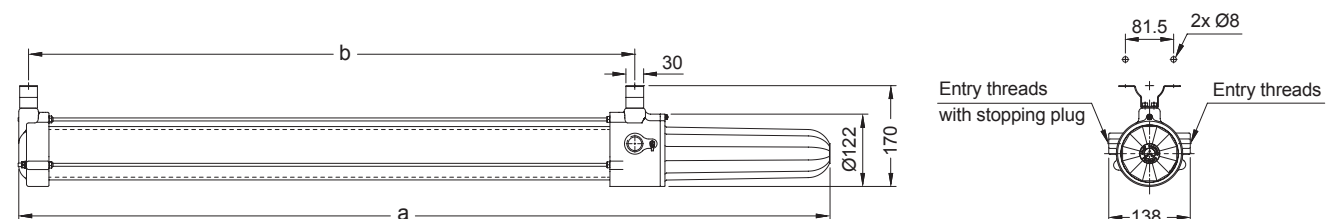
Catalogue Number Logic

Series	Lamp watt (see ordering requirement table below)	Lamp type	Accessories	Body	LED driver	Entry threads	Mounting type
DFP	Series	L4 Fluorescent lamp LED LED tube	G Protective guard R External reflector	C Capsule end cap	none Built-in driver D Driver required	M1 M20x1.5 M2 M25x1.5 N1 1/2" NPT N2 3/4" NPT	C Ceiling (standard) C1 Ceiling (for pipe), Fixed C2 Ceiling (for pipe), Swing P1 Pendant (for chain) P2 Pendant (for pipe) B Bracket

Ordering Requirements and Dimensions

Cat. No.	Lamp watt	Voltage	Ballast	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		Volume (cm³)	Dimensions in mm		Approx. weight (kg)	
				Ta 40°C	Ta 50°C	Ta 40°C	Ta 50°C		a	b		
T8 fluorescent lamp												
DFP-118L4 ○ - □□	1x 18 W	220-240 V AC, 50/60 Hz	Electronic	T6	T6	T85°C	T85°C	3,950	1,005	645	6.1	
DFP-218L4 ○ - □□	2x 18 W											
DFP-136L4 ○ - □□	1x 36 W							7,020	1,618	1,258	9.1	
DFP-236L4 ○ - □□	2x 36 W											
T5 fluorescent lamp												
DFP-114L4 ○ - □□	1x 14 W	220-240 V AC, 50/60 Hz	Electronic	T6	T6	T85°C	T85°C	3,950	1,005	645	6.1	
DFP-214L4 ○ - □□	2x 14 W											
DFP-128L4 ○ - □□	1x 28 W							7,020	1,618	1,258	9.1	
DFP-228L4 ○ - □□	2x 28 W											
LED tube (Single-ended, Built-in driver)												
DFP-109LED ○ - C - □□	1x 9 W	110-240 V AC, 50/60 Hz	—	T6	T6	T85°C	T85°C	3,950	1,005	645	6.1	
DFP-209LED ○ - C - □□	2x 9 W											
DFP-111LED ○ - C - □□	1x 11 W							7,020	1,618	1,258	9.1	
DFP-211LED ○ - C - □□	2x 11 W											
DFP-118LED ○ - C - □□	1x 18 W											
DFP-218LED ○ - C - □□	2x 18 W											
DFP-120LED ○ - C - □□	1x 20 W											
DFP-220LED ○ - C - □□	2x 20 W											
DFP-121LED ○ - C - □□	1x 21 W											
DFP-221LED ○ - C - □□	2x 21 W											
DFP-122LED ○ - C - □□	1x 22 W											
DFP-222LED ○ - C - □□	2x 22 W											
LED tube (72 V DC, Double-ended) – Requires an external driver												
DFP-125LED ○ - CD - □□	1x 25 W	110-240 V AC, 50/60 Hz	LED driver	T6	T6	T85°C	T85°C	7,020	1,618	1,258	9.1	
DFP-225LED ○ - CD - □□	2x 25 W											

Lighting source; daylight (6,500 K) are standard and/or warm white (3,000 K), please specify.



Remark:

* The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will cause to higher surface temperature.

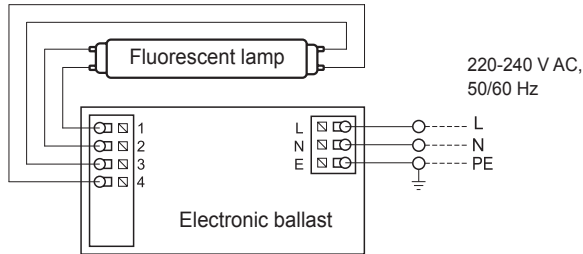
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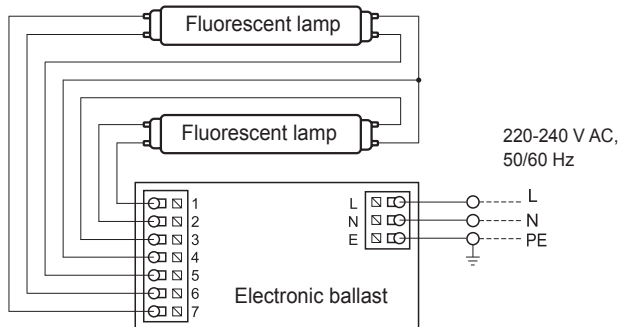
Zone 1 & 2 – 21 & 22

Wiring Diagram

Electronic ballast for fluorescent lamp;
1x 14 W, 18 W, 28 W, 32 W and 36 W

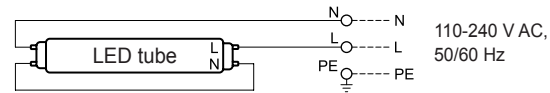


Electronic ballast for fluorescent lamp;
2x 14 W, 18 W, 28 W, 32 W and 36 W



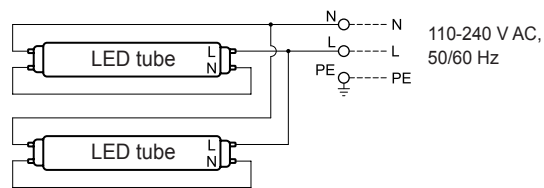
LED tube

1x Lamp (Single-ended, Built-in driver)



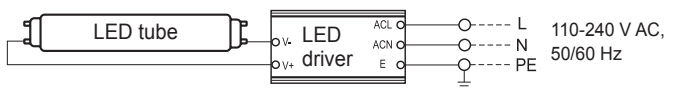
LED tube

2x Lamp (Single-ended, Built-in driver)



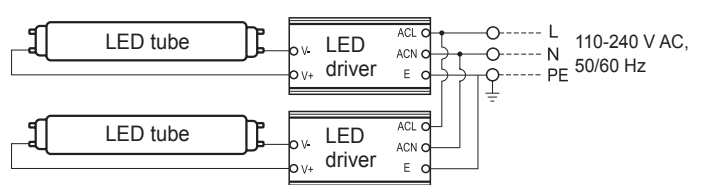
LED tube: requires an external driver

1x 25 W (72 V DC, Double-ended)



LED tube: requires an external driver

2x 25 W (72 V DC, Double-ended)



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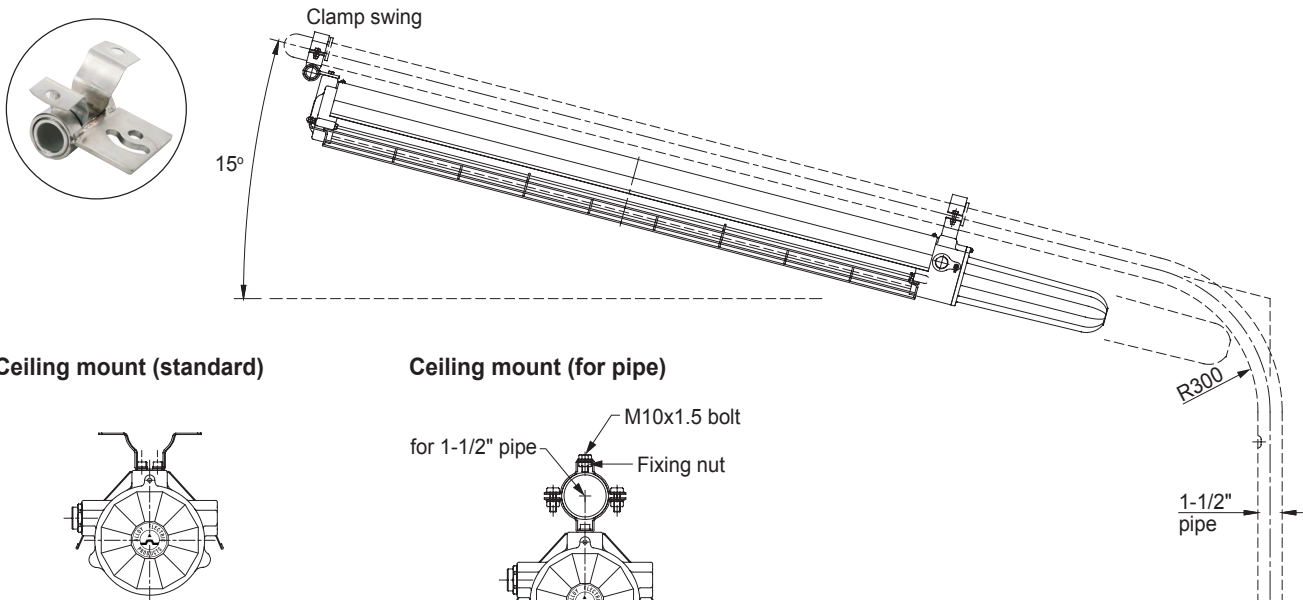
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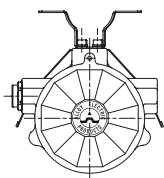


Installation Information

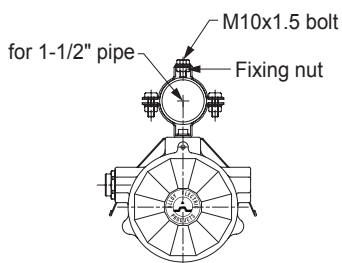
Pole mount



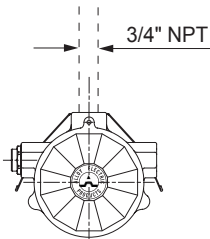
Ceiling mount (standard)



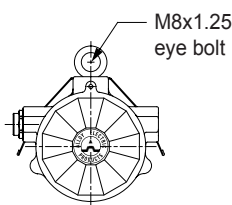
Ceiling mount (for pipe)



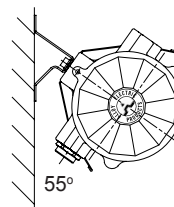
Pendant mount (for pipe)



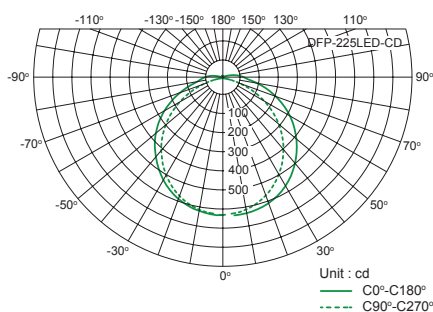
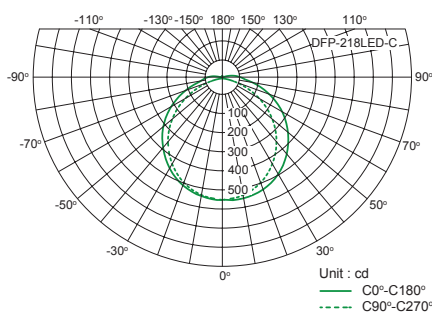
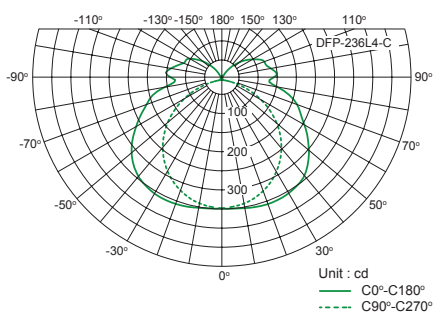
Pendant mount (for chain)



Bracket mount (or wall mount)



Luminous Intensity Distribution Curve



Complete photometrics, please contact us.