Product Introduction

ESFL/NSFL Stainless Steel Ex-Fluorescents are designed for hazardous location by the presence of flammable vapors, gases or combustible dusts. With its excellent corrosion-resistance capability, it is the best choice for Marine and Offshore platforms under extreme corrosive environments.

- ESFL- Zone 1/Zone2. Zone 21/Zone 22
- NSFL- Zone Zone2, Zone 21/Zone 22



Product Features

Robust Construction:

- Equipped with stainless steel housing and PC lens. Highly impact- resistance, corrosion-proof and, UV resistant to ensure product durability and long life
- IP66, ideally design to ensures continuous watertight proof
- Highly vibration resistant to comply with IEC60068-2-6 vessel vibration requirements

Superb Safety & Reliability:

- Individually certified Ex electronic ballast with Low harmonic content
- Wide range of ambient temperature: -20~+45°C/20~+40°C (Emergency)
- Ballast with "End of Life Protection (EOL)" protection
- Ex lamp holder with vibration resistance design, suitable for strong wind or high vibration environments

High Efficiency & Energy Saving:

 Electronic ballast with high efficiency and low power consumption. 15% increase of illuminating efficiency, and 25% energy saving compared with magnetic ballast. Input power of 2X18W/2X36Wfixture is only 36W/66W

Convenient Installation & Maintenance:

- Uniquely designed latches on both sides of the fixture thus to ensure reliable watertight proof and easy maintenance
- Lens chain design prevents lens from falling during installation and maintenance
- Reflector can be easily remove for easy wiring
- Fixture is composed with SS316 safety chain thus to ensure easy maintenance
- With advance internal wiring and terminals available on one or both ends that creates time and cost saving and easy installation for customers.
- Optional mounting brackets are also available for wide range of mounting requirements

Applications

- Outdoors and high humidity environment, and areas occupied with explosive gas or dusty exists
- Marine, offshore platform, or ship dock
- Other highly corrosive environments

Emergency Lighting

In the case of power supply failure, emergency operation will be initiated automatically with 1-lamp to be set on site for 120 mins. The battery will initiate charging when power supply returns to normal while the built-in single green LED on reflector continuously indicates the charging status.

- LED light will remain at the "On" status when battery is under normal operation condition.
- Green LED will begin to flash indicating when the battery is being discharged.
- LED will shut down when problem occurs in the main power or, when the battery cannot be charged or, when the charging process is complete.

Material

Housing	SS316 SS304 with electrostatic powder coating
	Steel with electrostatic powder coating
Lens	3mm thick clear PC
Reflector	Steel, with electrostatic white polyester powder coating
Gasket	Silicone

Technical Data

Marking to ATEX	ESFL: 🗟 II2 G Ex e q IIC T4 Gb / II2 D Ex tb IIIC T80°C Db IP66 (Non Emergency)		
	ESFL N: 🗟 II2 G Ex e ib q IIC T4 Gb / II2 D Ex tb IIIC T80°C Db IP66 (Emergency)		
Marking to IECEx	ESFL: Ex e q IIC T4 Gb / Ex tb IIIC T80°C Db IP66 (Non Emergency)		
	ESFL N: Ex e ib q IIC T4 Gb / Ex tb IIIC T80°C Db IP66 (Emergency)		
Marking to GB	ESFL: Ex e q IIC T4 Gb / DIP A21 T _A T6 IP66 (Non Emergency)		
	ESFL N: Ex e ib q IIC T4 Gb / DIP A21 T _A T6 IP66		
Ambient Temp	-20~+45°C/-20~+40°C(Emergency)		
Rated voltage	220V~240V, 50/60 Hz		
Suitable voltage	AC 187V~264V		
	DC 198V~242V (NA on Emergency fixture)		
Power factor	0.96		
Ingress protection	IP66		
Connecting terminals	L1, L2, L3, L, N, PE; Max. 2 x 6mm² single wire per terminal		
Cable entries	2XM25X1.5, or 2XM20X1.5, w/ 1 Ex e plastic cable gland and 1 Ex-plug		
	4XM25X1.5, or 4XM20X1.5, w/ 2 Ex e plastic cable gland and 2 Ex-plug		
Lamps	F18T8/F36T8, Bin-Pin G13		
Weight	2X18W: 13kg, 2X18W Emergency: 14kg		
	2X36W: 17kg, 2X36W Emergency: 18kg		
Battery operation Temp	Charge: 0°C~+60°C / Discharge: -20°C~+70°C		
Battery	4Ah 6V, Ni-Cd		
Em'cy lighting	Single tube, 2 hours, 18W: 270 Lumen (20%)		
	36W: 1350 Lumen (20%)		
Charging time	>16 hours, 20±5°C		

Ordering Logic

ESFL	/S16	/236	/N	/1-2x25
ESFL-	Housing Material	Lamps	Emergency Battery	Cable Entries
Zone 1 Exe Steel	S16-SS316	236- 2X36W	N- Emergency	1-2x25: single ended, 2xM25x1.5
Fluorescent	S04-SS304, with electrostatic powder coating	218- 2X18W	O-Non Emergency	2TW-2x25: double ended through-wiring, 2xM25x1.5
	S00- Steel, with electrostatic			1-2x20: single ended, 2xM20x1.5
	powder coating			2TW-2x20: double ended through-wiring,
				2xM20x1.5

Material

Housing	SS316
	SS304 with electrostatic powder coating
	Steel with electrostatic powder coating
Lens	3mm thick clear PC
Reflector	Steel, with electrostatic white polyester powder coating
Gasket	Silicone

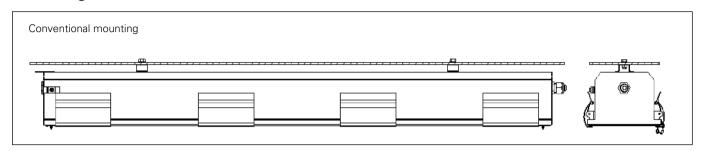
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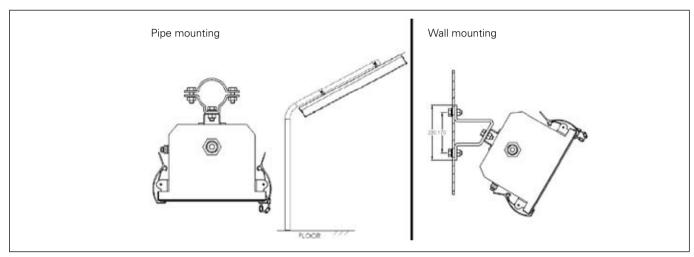
€ II3 G Ex nR IIC T6 Gc / II2 D Ex tb IIIC T80°C Db IP66		
Ex nR IIC T6 Gc / Ex tb IIIC T80°C Db IP66		
Ex nR IIC T6 Gc / DIP A21 T _A T6 IP66		
-20~+45°C/20~+40°C(Emergency)		
110V~240V, 50/60 Hz		
AC 99V~264V		
0.96		
IP66		
L1, L2, L3, L, N, PE; Max. 2 x 6mm ² single wire per terminal		
2XM25X1.5, or 2XM20X1.5, w/ 1 Ex e plastic cable gland and 1 Ex-plug		
4XM25X1.5, or 4XM20X1.5, w/ 2 Ex e plastic cable gland and 2 Ex-plug		
F18T8/F36T8, Bin-Pin G13		
2X18W: 13kg, 2X18W Emergency: 14kg		
2X36W: 17kg, 2X36W Emergency: 18kg		
Charge: 0°C~+60°C		
Discharge: -20°C~+70°C		
18W: 2.5Ah 6V, Ni-Cd;		
36W: 4Ah 6V, Ni-Cd		
Single Tube, 2hours, 18W: 270 Lumen (20%)		
36W: 1350 Lumen (20%)		
24hours, 20±5°C		

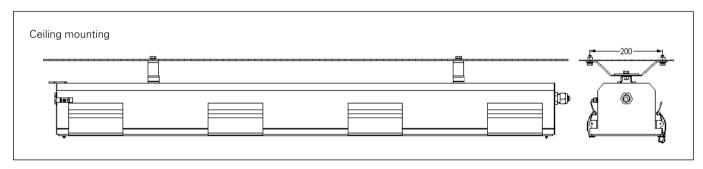
Ordering Logic

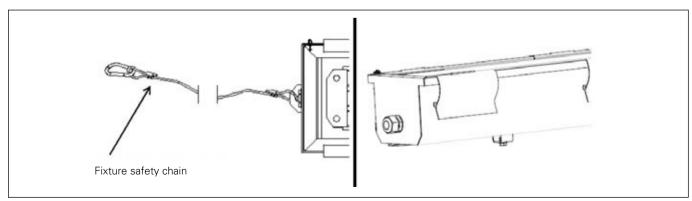
NSFL	/S16	/236	/N	/1-2x25
NSFL-	Housing Material	Lamps	Emergency Battery	Cable Entries
Zone2 Exe Steel Fluorescent	S16- SS316 S04- SS304, with electrostatic powder coating S00- Steel, with electrostatic powder coating	236- 2X36W 218- 2X18W	N-Emergency Battery O-No Emergency Battery	1-2x25: Single ended, 2xM25x1.5 2TW-2x25: Double ended through wiring, 2xM25x1.5 1-2x20: Single ended, 2xM20x1.5 2TW-2x20: Double ended through wiring,
	powdor dodding			2xM20x1.5

Mounting Method

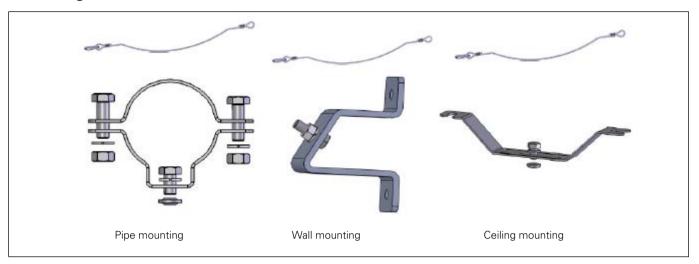








Mounting Bracket



Pipe Mounting

Part No	Description	Qty
CHR5218	Pipe Clamp Assy D42 316S/S	2
CHR5219	Pipe Clamp Assy D42 304S/S	2
CHR5220	Pipe Clamp Assy D42 plating	2
CHR5221	Pipe Clamp Assy D51 316S/S	2
CHR5222	Pipe Clamp Assy D51 304S/S	2
CHR5223	Pipe Clamp Assy D51 plating	2
CHR7005	Safety Chain Outside	1

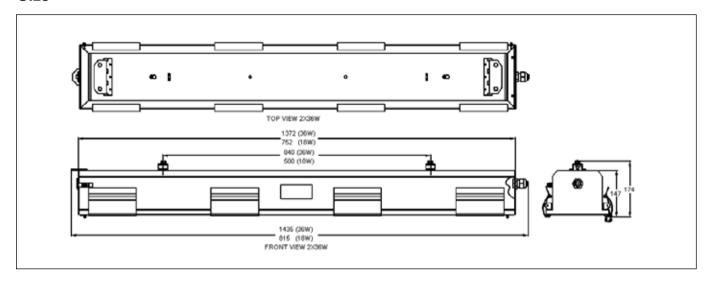
Wall Mounting

Part No	Description	Qty
CHR5248	Wall Suspension 316S/S	2
CHR5249	Wall Suspension 304S/S	2
CHR5250	Wall Suspension Plating	2
CHR7005	Safety Chain Outside	1

Ceiling Mounting

Part No	Description	Qty
CHR5245	Ceiling Mounting BKT 316S/S	2
CHR5246	Ceiling Mounting BKT 304S/S	2
CHR5247	Ceiling Mounting BKT Plating	2
CHR7005	Safety Chain Outside	1

Size



Polar Curves

