EXENC

- Zone 2, Zone 21-22
- Low installation costs
- Locking system operated by hexagonal-head tool
- High quality electrical components

Resin body reinforced polyester

Transparent hood in polycarbonate

Fixing Brackets

Armor closing system

G13 double-ended lampholder

CORTEM GROUP®

EXENC series Lighting fixtures “industrial series”

EXENC series fluorescent tube lighting fixtures can be installed in hazardous industrial plant units designated as Zone 2 and Zone 21-22. A careful research of the materials and the choice of the most performing electrical components give to EXENC, in addition to a considerable duration, greater safety in all environments where a high protection against corrosion, dust, water and humidity is required.
Due to their robust mechanical properties, they can be installed in both outdoor and indoor industrial environments such as refineries, petrochemical plants, rubber producing plants, paper mills, tunnels, galleries. In a more general sense, they are used in all those production processes where environmental conditions would deteriorate any other material and put the safety of the operating environment at risk. They are fitted with an electronic ballast system (RV series) for G13 bi-pin fluorescent tubes and can be supplied for either standard or emergency illumination. EXENC series lighting fixtures are easy to install and have a high degree of reliability thanks to the EOL Protected system that allows one fluorescent tube to stop working in safety. EXENC lighting fixtures have been designed to be connected in series thus simplifying installation and doing away with the need for junction boxes. The replacement of the battery, due to a fault in the emergency circuit or due to its depletion, is indicated by the turning off of the red LED.

Application sectors:

Offshore plants | Farm applications | Onshore plants | Low temperatures | Chemical and petrochemical plants | Waste water purification | Distillation industry | Painting plants

CERTIFICATION DATA

Classification:	Group II	Category 3GD/2D		
Installation: EN 60079.14	zone 2 (Gas)	zone 21-22 (Dust)		
Marking:	CE Ex II 3GD Ex nA IIC T... Gc - Ex tc IIIC T...°C Dc IP 66			
	CE 0722 Ex II 2D Ex tb IIIC T...°C Db IP66			
Certification:	ATEX CML 18 ATEX 3073X	3GD		
	ATEX CML 18 ATEX 4072X	2D		
	IEC Ex CML 18.0044X	All IEC Ex and INMETRO certification data can be downloaded at www.cortemgroup.com		
	INMETRO DNV 19.0018X			
Standards:	CENELEC EN60079-0: 2012+A11:2013, EN60079-28: 2015, EN60079-15: 2010, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE. IEC60079-0:2011, IEC60079-15:2010, IEC60079-28:2015, IEC60079-31: 2013 European Directive 2006/95 Low voltage European Directive 2004/108 Electromagnetic compatibility European Directive 2003/108 WEEE Waste electrical and electronic equipment European Directive 2011/64 RoHS			
Class temperature:	55°C (T4)	62°C (T4)	65°C (T3)	
Ambient temperature:	-20°C +40°C	-20°C +47°C	-20°C +50°C	
Degree of protection:	IP66			

EXENC series Lighting fixtures “industrial series”

ORIGINAL PRODUCT

MECHANICAL FEATURES

Body:	Black shock and UV resistant fibreglass reinforced anti-static polyester resin
Diffuser:	Transparent polycarbonate, shock and UV resistant
Protected opening system:	Sliding system operated by a hexagonal socket (for safety reasons, the fixture cannot be opened without the tool)
Gasket:	Acid/hydrocarbon resistant expanded silicone
Inner frame/reflector:	White painted steel
Bolts and screws:	Stainless steel
Entries:	2 x Ø25.5 entries (suitable for ISO M25 threads). Lighting fixture kit contains 1 x model PLG2ILXE7 plug and 1 x model NAVP25IXE-XEU25LDS cable gland for non-armoured cable
Mounting:	Two steel brackets

ELECTRICAL FEATURES

Lamp holder:	Bi-pin G13
Ballast:	Electronic single channel
Rated voltage:	220-240 Vac ±10%
Rated frequency:	50/60 Hz
Connection:	Connected directly to terminal board L N, Pe section 4 mm^2 terminal board with jumpers for input-output
Power factor:	0.97
Emergency unit:	Electronic inverter 110V/240V, 50/60Hz. Batteries Ni/Cd, 4 Ah or 7 Ah, 6 V
Wiring:	Silicone rubber cables with glass braid insulation for high temperatures

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

2 pin Ø26 fluorescent tubes model T8
Additional NAVP25IXE-XEU25LDS cable gland for unarmoured cable

EXENC series selection chart

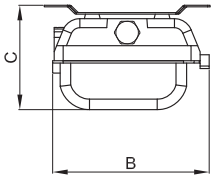
Single and double tube

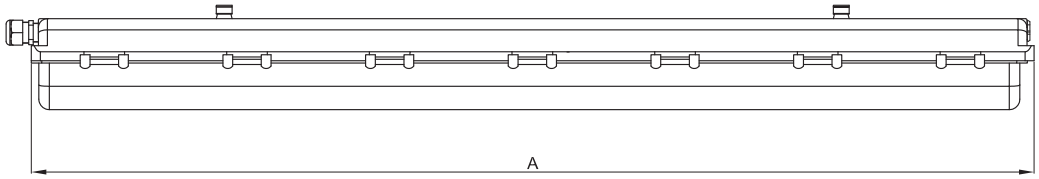
Code	Dimensions mm A	B	C	A1	Operating type	Type of ballast	N° of lamps	Watt	Weight kg	mm
EXENC-118	750	206	160	642	normal	electronic single channel	1	18	4,0	855x245x180
EXENC-136	1325	206	160	800	normal	electronic single channel	1	36	7,6	1425x245x180
EXENC-218	750	206	160	642	normal	electronic single channel	2	18	4,2	855x245x180
EXENC-236	1325	206	160	800	normal	electronic single channel	2	36	7,9	1425x245x180

Single and double tube with emergency unit

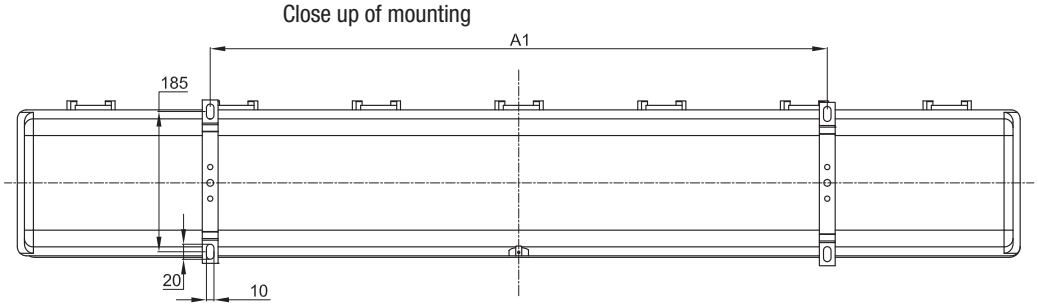
Code	Dimensions mm A	B	C	A1	Operating type	N° of lamps	Battery Ah	Discharge time minutes	Watt	Weight kg	mm
EXENC-118EF4	750	206	160	642	normal + emergency	1	4	120’	18	5,0	855x245x180
EXENC-136EF4	1325	206	160	800	normal + emergency	1	4	100'	36	8,3	1425x245x180
EXENC-218EF4	750	206	160	642	normal + emergency	2	4	120’	18	5,0	855x245x180
EXENC-236EF4	1325	206	160	800	normal + emergency	2	4	100’	36	8,3	1425x245x180
EXENC-118EF7	750	206	160	642	normal + emergency	1	7	210’	18	5,5	855x245x180
EXENC-136EF7	1325	206	160	800	normal + emergency	1	7	180’	36	8,8	1425x245x180
EXENC-218EF7	750	206	160	642	normal + emergency	2	7	210’	18	5,5	855x245x180
EXENC-236EF7	1325	206	160	800	normal + emergency	2	7	180’	36	8,8	1425x245x180
EXENC-118EE4	750	206	160	642	emergency only	1	4	120'	18	4,6	855x245x180
EXENC-136EE4	1325	206	160	800	emergency only	1	4	100'	36	7,9	1425x245x180
EXENC-118EE7	750	206	160	642	emergency only	1	7	210'	18	5,1	855x245x180
EXENC-136EE7	1325	206	160	800	emergency only	1	7	180'	36	8,4	1425x245x180

DIMENSIONAL DRAWINGS

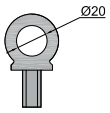
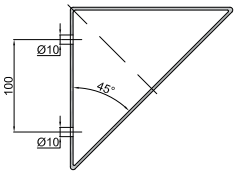
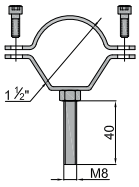
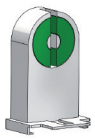




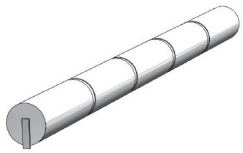
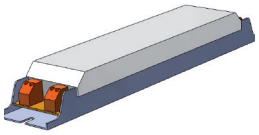
Close up of mounting



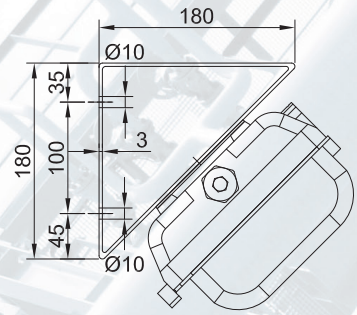
EXENC series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Triphosfore fluorescent tubes G13 connection 3.000K	18 W	1350 lm (FD18W)	LAMPL18W21	
		36 W	3350 lm (FD36W)	LAMPL36W21	
	Tige	Length: 250 mm	Material: stainless steel	BRF8MIN/250 + G-992	
	Eyebolt		Material: galvanised steel	GOF-8 + G-992	
	Type D bracket complete with screws		Material bracket: galvanised steel screws: stainless steel	G-0611/1	
	Type P bracket		Material: galvanised steel	G-0480 + G-992	
	Lamp holder	G13	250V - 4A	STU254/S	
	Non-armoured cable gland complete with rubber, seal and lock nut	ISO M25x1,5	Ex e II IP 66/67 (std. range cavo 10-18)	NAVP25IXE-XEU25LDS	
	Plug with seal and lock nut	ISO M25x1,5	Ex e II IP 66/67	PLG2ILXE7	

EXENC series Accessories and spare parts available on request

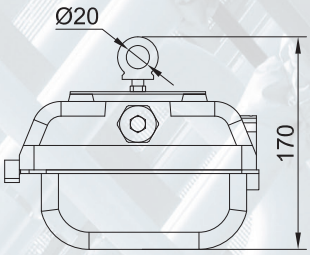
ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Battery pack		4Ah 6V NiCd	BATT4AH/D	SPARE PART
			7Ah 6V NiCd	BATT7AH/D	
	Electronic inverter		110/240V 50/60Hz	INVERTER	SPARE PART
	Electronic ballast	1 x 18 W	220-240 Vac ±10% 50/60 Hz	RV-18N	RICAMBIO
		2 x 18 W		RV-18N	
		1 x 36 W		RV-36N	
		2 x 36 W		RV-36N	

Installation and mounting methods EXENC series

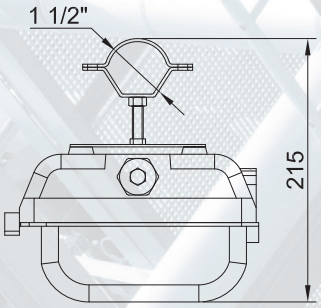


45° angle mounting TYPE "D"

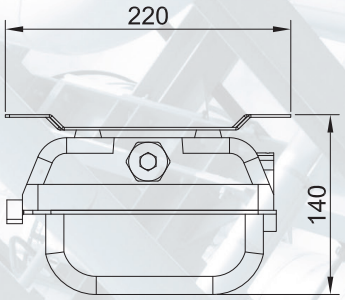
Dimensions in mm



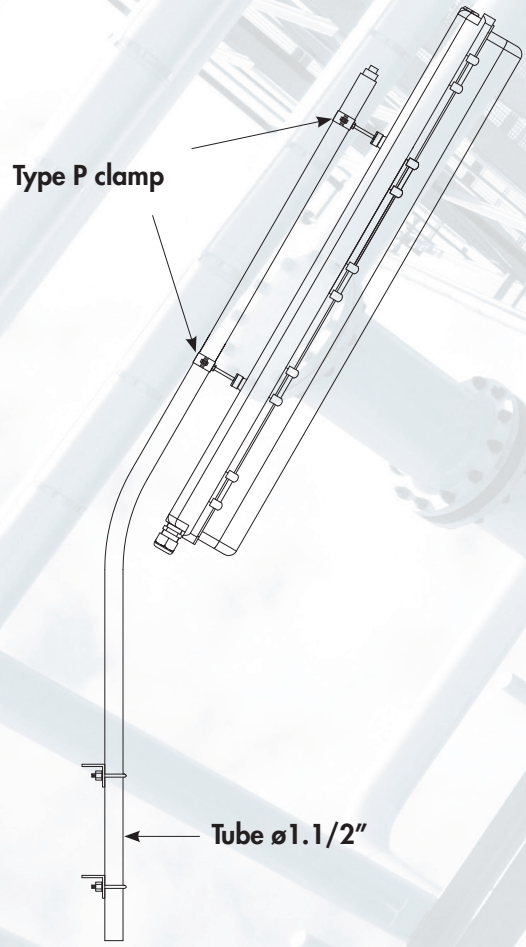
Pendant mounting with eyebolt TYPE "O"



Mounting with 1.1/2" metal clamps TYPE "P"



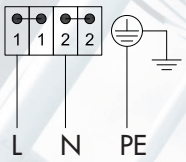
Low ceiling mounting with clamp TYPE "U"



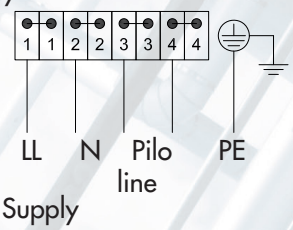
Standard pole mounting

Wiring diagrams

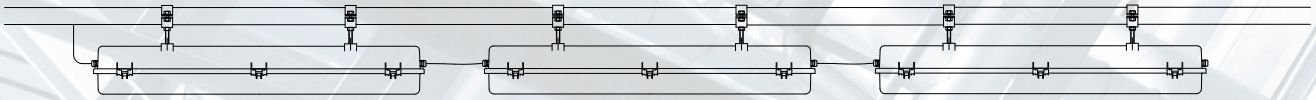
Normal lighting fixture



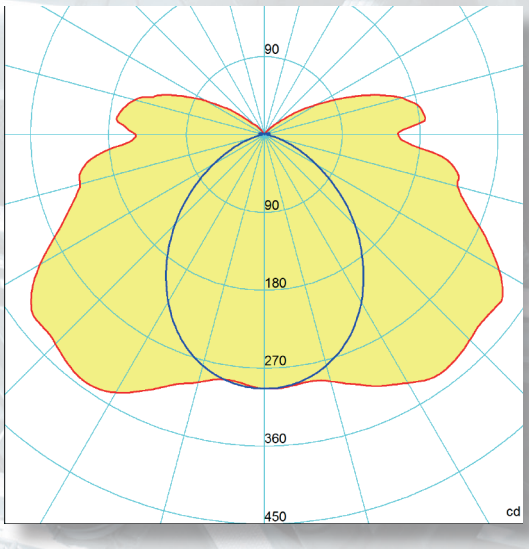
Lighting fixture with emergency system



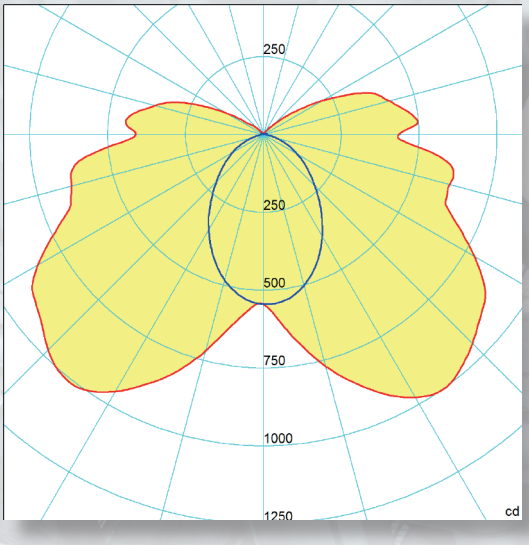
Connections can be made on either side of the fixture body for simple, fast installation



Photometric diagrams



EXENC-218
Lumen: 2700 lm
Maximum light intensity: 353 cd



EXENC-236
Lumen: 6700 lm
Maximum light intensity: 1010 cd

On Cortem Group web site you can download .LDT and .IES lighting data files for the design and simulation of lighting levels in 2D and 3D, rendering and ray tracing.

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