

# 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*

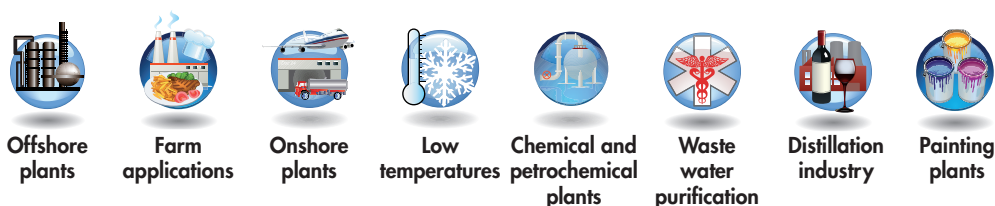
*G13 double-ended lampholder*

## 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:



### CERTIFICATION DATA

Classification:	Group II		Category 3GD/2D			
Installation: EN 60079.14	zone 2 (Gas)		zone 21-22 (Dust)			
Marking:	CE  II 3GD Ex nA IIC T... Gc - Ex tc IIIC T...°C Dc IP 66					
	CE 0722  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 <a href="http://www.cortemgroup.com">www.cortemgroup.com</a>			
	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

<b>Body:</b>	Black shock and UV resistant fibreglass reinforced anti-static polyester resin
<b>Diffuser:</b>	Transparent polycarbonate, shock and UV resistant
<b>Protected opening system:</b>	Sliding system operated by a hexagonal socket (for safety reasons, the fixture cannot be opened without the tool)
<b>Gasket:</b>	Acid/hydrocarbon resistant expanded silicone
<b>Inner frame/reflector:</b>	White painted steel
<b>Bolts and screws:</b>	Stainless steel
<b>Entries:</b>	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
<b>Mounting:</b>	Two steel brackets

### ELECTRICAL FEATURES


<b>Lamp holder:</b>	Bi-pin G13
<b>Ballast:</b>	Electronic single channel
<b>Rated voltage:</b>	220-240 Vac $\pm 10\%$
<b>Rated frequency:</b>	50/60 Hz
<b>Connection:</b>	Connected directly to terminal board L N, Pe section 4 mm <sup>2</sup> terminal board with jumpers for input-output
<b>Power factor:</b>	0.97
<b>Emergency unit:</b>	Electronic inverter 110V/240V, 50/60Hz. Batteries Ni/Cd, 4 Ah or 7 Ah, 6 V
<b>Wiring:</b>	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

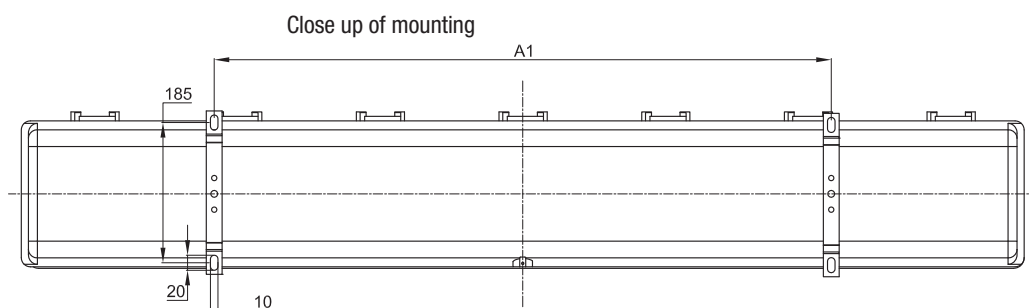
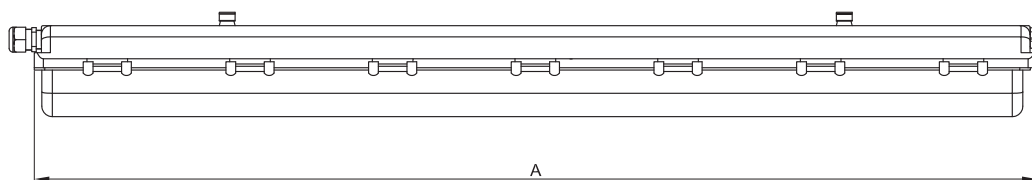
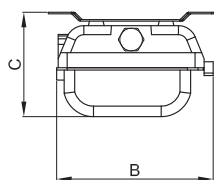
### Single and double tube

Code	Dimensions mm				Operating type	Type of ballast	N° of lamps	Watt	Weight kg	 mm
	A	B	C	A1						
EXENC-118	802	206	160	642	normal	electronic single channel	1	18	4,0	855x245x180
EXENC-136	1400	206	160	800	normal	electronic single channel	1	36	7,6	1425x245x180
EXENC-218	802	206	160	642	normal	electronic single channel	2	18	4,2	855x245x180
EXENC-236	1400	206	160	800	normal	electronic single channel	2	36	7,9	1425x245x180


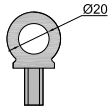




### Single and double tube with emergency unit

Code	Dimensions mm				Operating type	N° of lamps	Battery Ah	Discharge time minutes	Watt	Weight kg	 mm
	A	B	C	A1							
EXENC-118EF4	802	206	160	642	normal + emergency	1	4	120'	18	5,0	855x245x180
EXENC-136EF4	1400	206	160	800	normal + emergency	1	4	100'	36	8,3	1425x245x180
EXENC-218EF4	802	206	160	642	normal + emergency	2	4	120'	18	5,0	855x245x180
EXENC-236EF4	1400	206	160	800	normal + emergency	2	4	100'	36	8,3	1425x245x180
EXENC-118EF7	802	206	160	642	normal + emergency	1	7	210'	18	5,5	855x245x180
EXENC-136EF7	1400	206	160	800	normal + emergency	1	7	180'	36	8,8	1425x245x180
EXENC-218EF7	802	206	160	642	normal + emergency	2	7	210'	18	5,5	855x245x180
EXENC-236EF7	1400	206	160	800	normal + emergency	2	7	180'	36	8,8	1425x245x180
EXENC-118EE4	802	206	160	642	emergency only	1	4	120'	18	4,6	855x245x180
EXENC-136EE4	1400	206	160	800	emergency only	1	4	100'	36	7,9	1425x245x180
EXENC-118EE7	802	206	160	642	emergency only	1	7	210'	18	5,1	855x245x180
EXENC-136EE7	1400	206	160	800	emergency only	1	7	180'	36	8,4	1425x245x180





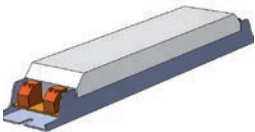

### DIMENSIONAL DRAWINGS



## 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	G0F-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)	NAV25IXE-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	
			7Ah 6V NiCd	BATT7AH/D	
	Electronic inverter		110/240V 50/60Hz	INVERTER	
	Electronic ballast	1 x 18 W	220-240 Vac $\pm 10\%$ 50/60 Hz	RV-18N	
		2 x 18 W		RV-18N	
		1 x 36 W		RV-36N	
		2 x 36 W		RV-36N	



**45° angle mounting  
TYPE "D"**

Dimensions in mm

**Pendant mounting with  
eyebolt TYPE "O"**

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

**Type P clamp**

**Low ceiling mounting with  
clamp TYPE "U"**

**Wiring diagrams**

Normal lighting fixture

L N PE

Supply

Lighting fixture with emergency  
system

**Tube  $\varnothing 1.1/2"$**

**Standard pole mounting**

LL N Pilo PE  
line

Supply

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

### 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.

— = piano 90270  
— = piano 0180