

EXENC-L

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

'Ex op is'
safe optical radiation

*Resin body
reinforced polyester*

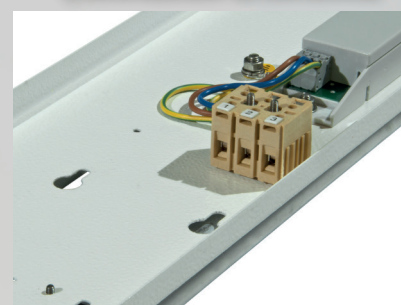
Fixing Brackets

*Transparent hood
in polycarbonate*

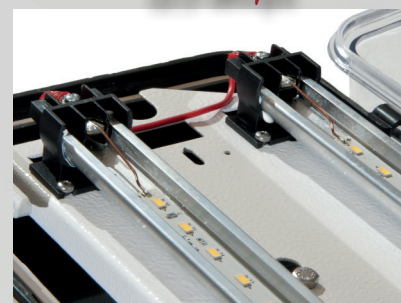
Connection terminals

*High luminous
intensity LED*

*Locking system operated by
hexagonal-head tool*



*Strips made with Cortem
LED strips*



EXENC-L series lighting fixtures for LED strips “industrial series”

EXENC-L series lighting fixtures with LED strips 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-L, in addition to a considerable duration, greater safety in all environments where a high protection against corrosion, dust, water and humidity is required.

They can be installed in both outdoor and indoor industrial environments such as refineries, petrochemical plants, rubber producing plants, paper mills, tunnels, galleries and, in general, in all those production processes where environmental conditions would deteriorate any other material and put the safety of the operating environment at risk. Lighting fixture EXENC-L have been designed for loop-in, loop-out connection, reducing installation costs and thus avoiding the use of junction boxes.

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 (Polveri)

Marking:

CE Ex II 3GD Ex nA IIC T4 Gc - Ex tc IIIC T...°C Dc IP 66

CE 0722 Ex II 2D Ex tb IIIC T4°C Db - Ex tb op is IIIC T...°C Db IP66

Certification:

ATEX CML 18 ATEX 3073X

3GD

ATEX CML 18 ATEX 4072X

2D

IEC Ex CML 18.0044X

INMETRO DVN 19.0018 X

All IEC Ex and INMETRO certification data can be downloaded at www.cortemgroup.com

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)

62°C (T4)

Ambient temperature:



-20°C +47°C

-40°C +47°C
(ONLY FOR NORMAL VERSION)

Degree of protection:

IP66

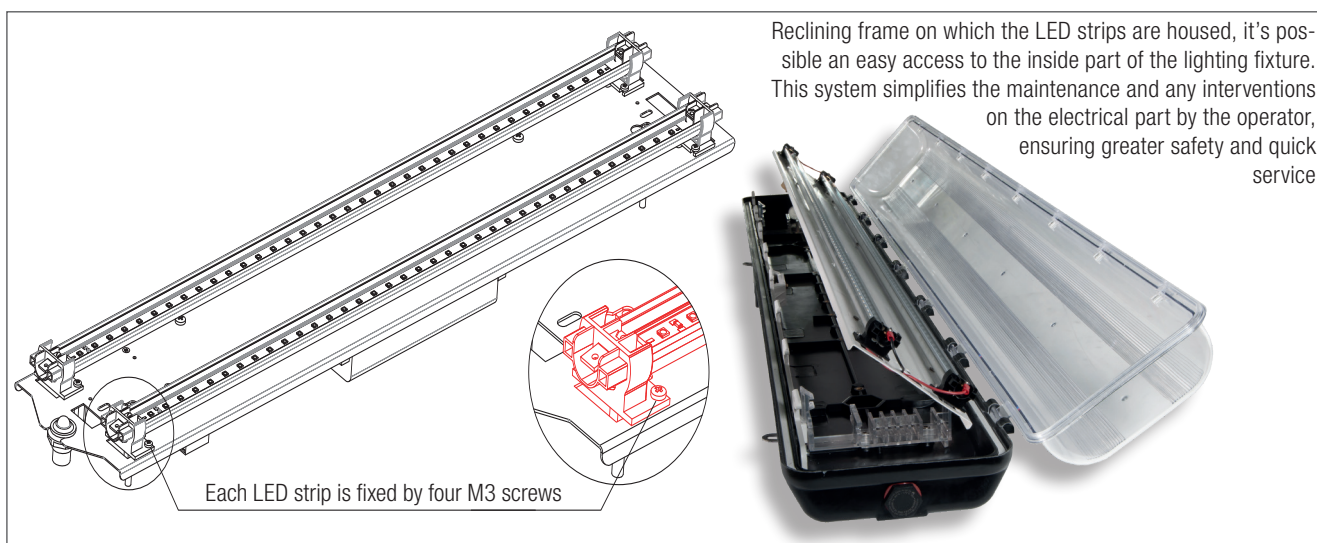
EXENC-L series lighting fixtures for LED strips “industrial series”



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 plugs and 1 x model NAVP25IXE-XEU25LDS cable glands for non-armoured cable
Mounting:	Two steel brackets



ELECTRICAL FEATURES

Ballast:	Electronic
Rated voltage:	220-240 Vac/dc
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
Emergency unit:	Electronic inverter 220/240V, 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

Additional NAVP25IXE-XEU25LDS cable gland for unarmoured cable

EXENC-L series selection chart

Single and double strip

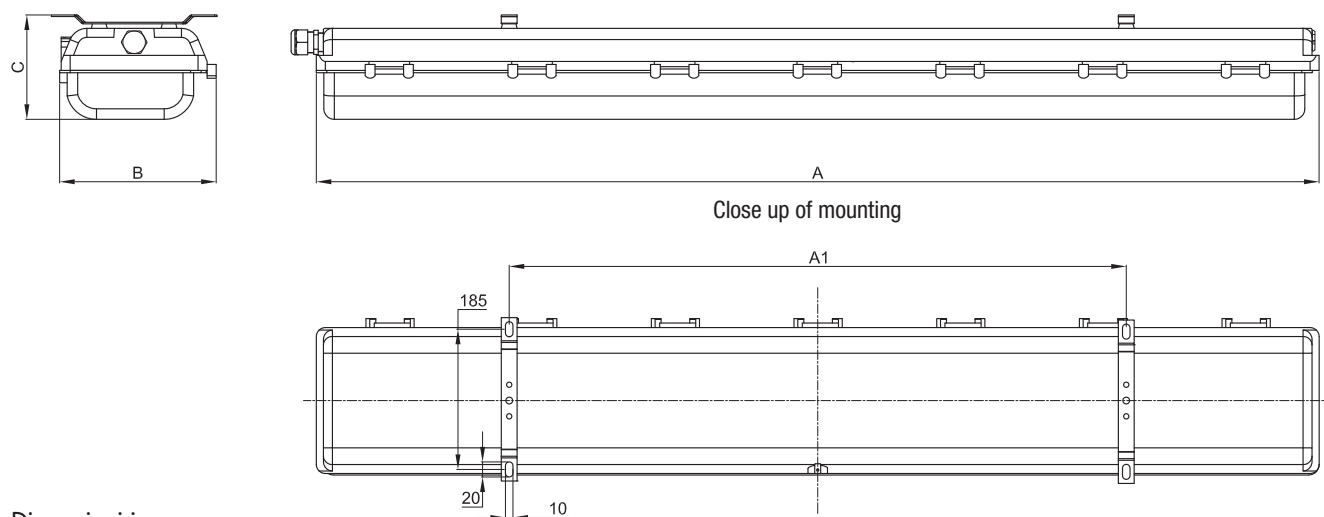
Code	Dimensions mm				Power Supply	LED strips n°	Watt*	Weight kg	
	A	B	C	A1					
EXENC-101L	802	206	160	642	220-240 Vac 50-60Hz	1	13	4,2	855x245x180
EXENC-201L	802	206	160	642	220-240 Vac 50-60Hz	2	26	4,7	855x245x180
EXENC-102L	1400	206	160	800	220-240 Vac 50-60Hz	1	25	7,4	1425x245x180
EXENC-202L	1400	206	160	800	220-240 Vac 50-60Hz	2	52	7,9	1425x245x180

* Actual values measured at 230V

Single and double strip with emergency unit

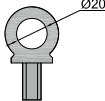
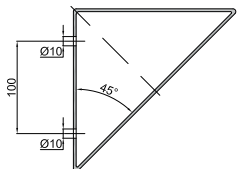
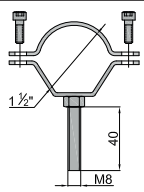
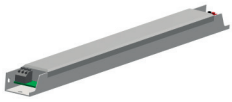
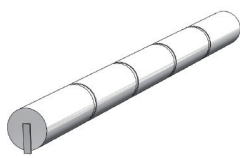
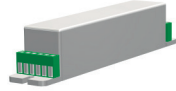
Code	Dimensions mm				Operating type	LED strips n°	Battey Ah	Discharge time minutes	Watt	Weight kg	
	A	B	C	A1							
EXENC-201LEF4	750	206	160	642	normal+emergency	2	4	180'	26		855x245x180
EXENC-202LEF4	1325	206	160	800	normal+emergency	2	4	120'	52		1425x245x180
EXENC-201LEF7	750	206	160	642	normal+emergency	2	7	240'	26		855x245x180
EXENC-202LEF7	1325	206	160	800	normal+emergency	2	7	240'	52		1425x245x180
EXENC-101LEF4	750	206	160	642	normal+emergency	1	4	180'	13		855x245x180
EXENC-102LEF4	1325	206	160	800	normal+emergency	1	4	120'	25		1425x245x180
EXENC-101LEF7	750	206	160	642	normal+emergency	1	7	240'	13		855x245x180
EXENC-102LEF7	1325	206	160	800	normal+emergency	1	7	240'	25		1425x245x180
EXENC-101LEE4	750	206	160	642	only emergency	1	4	180'	13		855x245x180
EXENC-102LEE4	1325	206	160	800	only emergency	1	4	120'	25		1425x245x180
EXENC-101LEE7	750	206	160	642	only emergency	1	7	240'	13		855x245x180
EXENC-102LEE7	1325	206	160	800	only emergency	1	7	240'	25		1425x245x180

DIMENSIONAL DRAWINGS

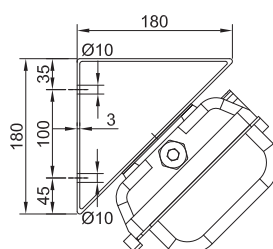
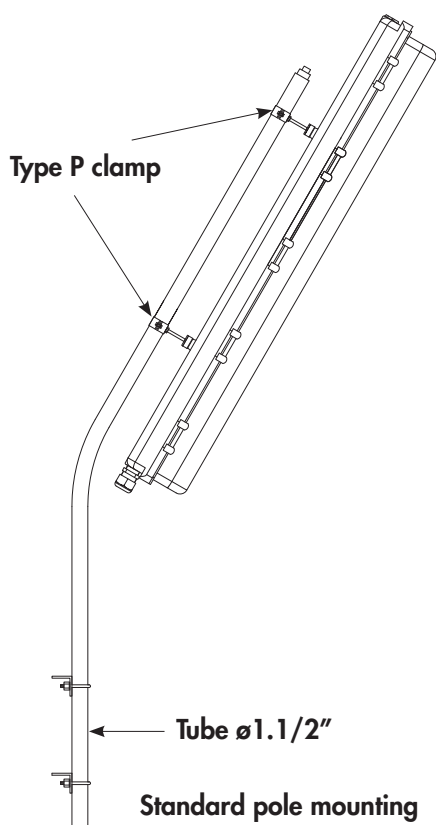


Dimensioni in mm

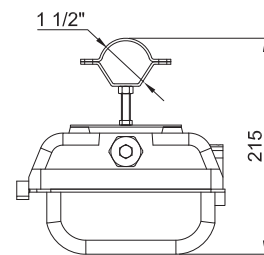
EXENC-L series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	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	 
	LED strips	EXENC-101L EXENC-201L	Linear LED module	LTT36700N	
		EXENC-102L EXENC-202L		LTT72700N	
	Electronic power supply	EXENC-101L	230 V 50/60 Hz	LEDDEXEN202CL	
		EXENC-201L			
		EXENC-102L			
		EXENC-202L			
	Battery pack		4Ah 6V NiCd	BATT4AH/D	
			7Ah 6V NiCd	BATT7AH/D	
	Electronic inverter		110/240V 50/60Hz	INVERTER/LED/1	
	Non-armoured cable gland complete with rubber, gasket and lock nut	ISO M25x1,5	Ex e II IP 66/67 (std. range cavo 10÷18)	NAVP25IXE-XEU25LDS	
	Plug with gasket and lock nut	ISO M25x1,5	Ex e II IP 66/67	PLG2ILXE7	

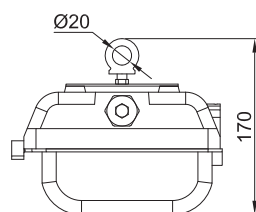
Installation and mounting methods EXENC-L series



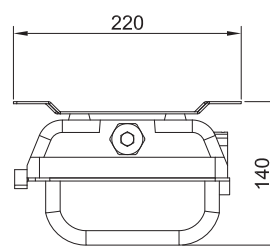
45° angle mounting
TYPE "D"



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



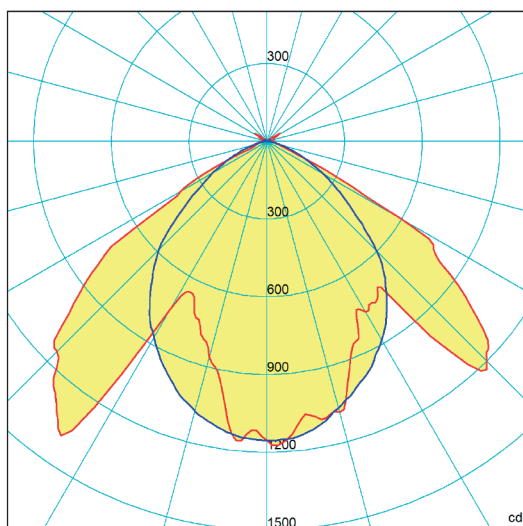
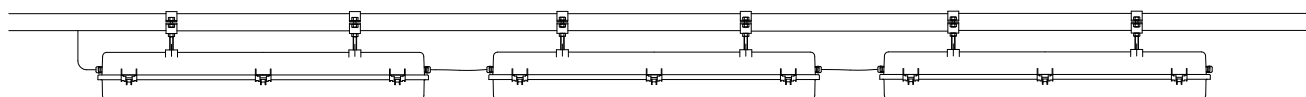
Pendant mounting with
eyebolt TYPE "O"



Low ceiling mounting with
clamp TYPE "U"
(Brackets included)

Dimensions in mm

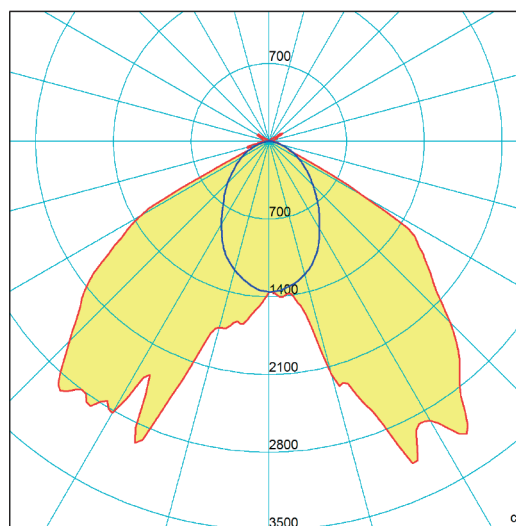
Loop-in loop-out connections for simple and fast installation



EXENC-201L

Lumen: 3691 lm

Maximom light intensity: 1602 cd



EXENC-202L

Lumen: 7383 lm

Maximom light intensity: 3205 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.

— = plane 90270
— = plane 0180