EXEL-L

- Complete with high efficiency LED tubes
- Quick access to the internal electrical equipment
- Double locking system operated by hexagonal-head tool
- Zone 1, 2, 21, 22

Safe optical radiation

Reinforced polyester resinbody

Hinges

Detail of the internal side



Certified LED tubes

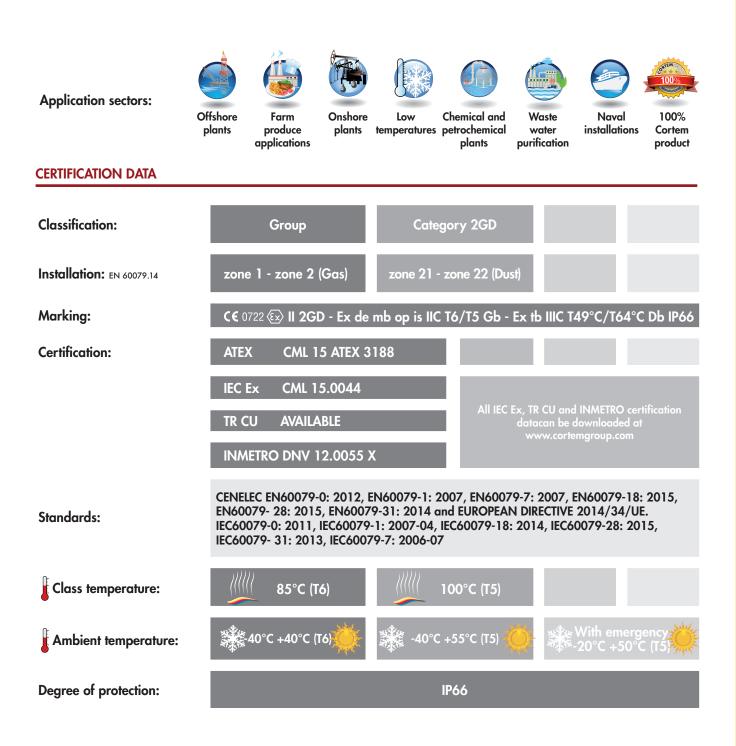


Transparent polycar-

bonate cover

EXEL-L series increased safety lighting fixtures for LEDs resin-bonded tubes are suitable to be installed in hazardous areas where a high degree of protection and resistance against corrosion is required. EXEL-L series is GRP made and features the 'Ex de mb op is' according to the safe optical radiation standard. It's equipped with LED tubes sealed in a transparent resin. The LED tubes are manufactured by Cortem and they are certified and supplied along with the lighting fixture. The through wiring double ended makes installation on field easier and faster. The transparent cover is clipped into place on both sides of the fixture body with 8 clips on the EXEL-215L model and 14 clips on the EXEL-230L unit. This ensures excellent protection against dust and water over time. A safety switch housed inside the lighting fixture cuts off automatically the power supply when the lighting fixture is opened for the LED tubes and/or electrical component replacement. The EXEL-L series provides four models fitted with a Ni-Cd battery with electronic inverter for use in emergency operation. Thanks to the use of LED technology applied also on the emergency models, the operating time and the energy saving are considerably greater.

A red LED warning light comes off if the battery needs to be replaced due to a short circuit or if the battery itself is dead.







MECHANICAL FEATURES

Body:	Black shock and UV resistant fibreglass reinforced anti-static polyester resin
Diffuser:	Transparent polycarbonate, shock and UV resistant
Protected opening system:	opened without the tool)
Gasket:	Acid/hydrocarbon resistant expanded silicone
Reclining frame:	Aluminium and stainless steel
Inner fixed frame:	Extruded aluminium
Bolts and screws:	Stainless steel
Entries:	4 x Ø25.5 entries (suitable for ISO M25x1.5 threads). Lighting fixture kit contains 3 model PLG2ILXE7 plugs and 2 model UNI2LXE7DS cable glands for non-armoured cable
Mounting:	Nickel plated brass inserts with 2 x M8 holes

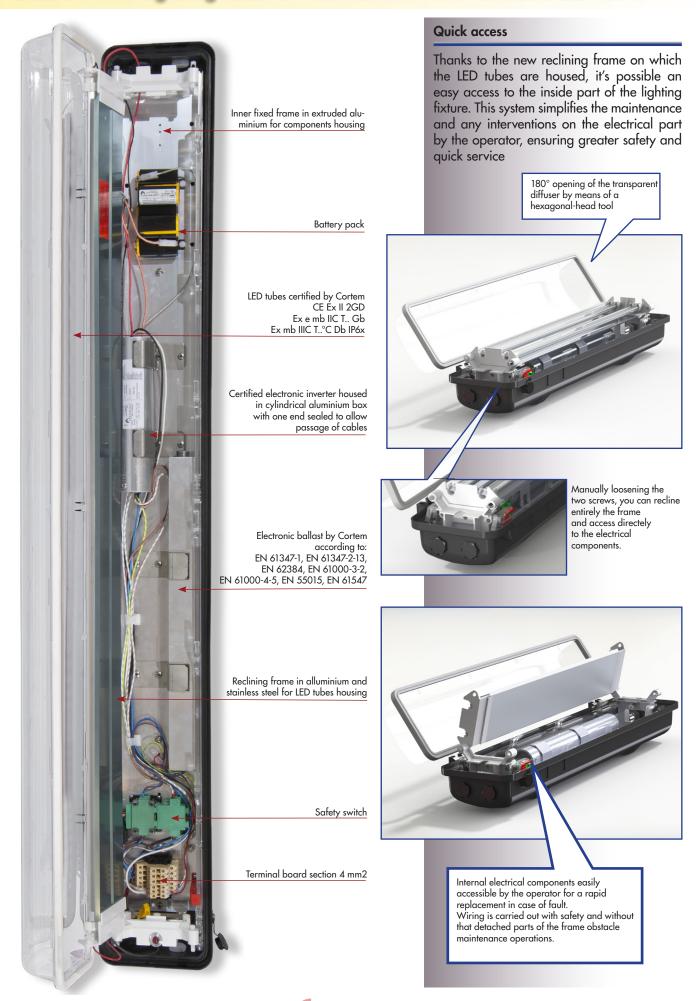
ELECTRICAL FEATURES

Ballast: Rated voltage:	Electronic 110/277 Vac (EXEL-215L) 220/240 Vac (EXEL-230L)
Rated frequency: Connection:	50/60 Hz Directly to terminal board L, N, Pe section 4 mm2 terminal board with jumpers suitable for through wiring double ended
Emergency unit: Wiring:	Electronic inverter 110/240 Vac 50/60 Hz, 110-270 Vdc. Batteries Ni/Cd, 4 Ah o 7 Ah, 6V Silicone rubber cables with glass braid insulation for high temperatures

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Installation brackets Grey polyester resin body (code EXEL-215L**G**) Cable entry: 4 x Ø20.5 holes. Lighting fixture kit contains 3 model PLG1ILXE7 plugs and 2 model UNI1LXE7 cable glands for non-armoured cable (code EXEL-215L/**20**) Earthing continuity plates for metal cable glands







Normal working									
Code	A	Dimensio A1	ns mm B	C	Watt	LED tubes n°	Power supply	Weight kg	mm
EXEL-215L	785	420	185	155	29	2	110-277 Vac dc 50/60Hz	4,9	195x155x820
EXEL-230L	1370	420	185	155	56	2	220-240Vac dc 50/60Hz	9,2	196x155x1400

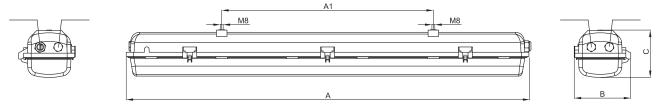
Normal + emergency working

Code	D A	imensio A1	ons mn B	n C	Operating type	LED tubes n°	Power supply	Watt	Discharge time in minutes	Weight kg	mm
EXEL-215LEF4	785	420	185	155	normale + emergenza	2	220-240Vac 50/60Hz	29	180'	7,2	196x155x820
EXEL-230LEF4	1370	720	185	155	normale + emergenza	2	220-240Vac 50/60Hz	56	120'	10,1	196x155x1400
EXEL-215LEF7	785	720	185	155	normale + emergenza	2	220-240Vac 50/60Hz	29	240'	7,2	196x155x820
EXEL-230LEF7	1370	420	185	155	normale + emergenza	2	220-240Vac 50/60Hz	56	240'	10,1	196x155x1400

Only emergency working

Code	D A	imensi A1	ons mn B	1 C	Operating type	LED tubes n°	Power supply	Discharge time in minutes	Weight kg	mm
EXEL-115LEF4	785	420	185	155	solo emergenza	1	230Vac ±10% 50/60Hz	180'	7,2	196x155x820
EXEL-130LEF4	1370	720	185	155	solo emergenza	1	230Vac ±10% 50/60Hz	120'	10,1	196x155x1400
EXEL-115LEF7	785	420	185	155	solo emergenza	1	230Vac ±10% 50/60Hz	240'	7,2	196x155x820
EXEL-130LEF7	1370	720	185	155	solo emergenza	1	230Vac ±10% 50/60Hz	240'	10,1	196x155x1400

DIMENSIONAL DRAWING

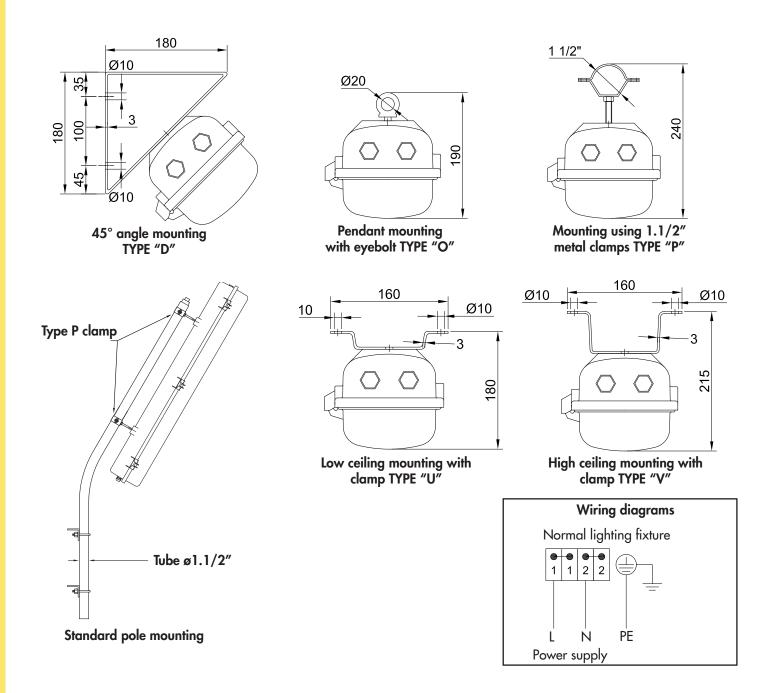


DON'T FORGET TO ORDER THE ACCESSORIES

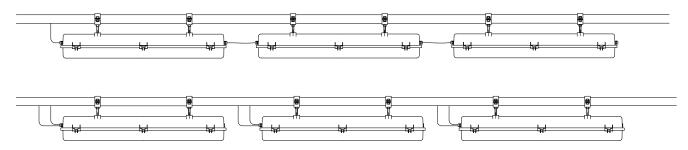
Example: Type of lighting fixture + EXEL-215L		Installation bracket G-0480		+ othersee key		ACCESSORY
ILLUSTRATION	DESCRIPTIO	N MODI	EL FEA	ATURES	CODE	KEY
M8	Tige	Lengtl 250 m		aterial: less steel	BRF8MIN/250	ACCESSOR
Ø20	Eyebolt			aterial: nised steel	GOF-8	

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY	
	Type U bracket complete with screws		Material: bracket: galvanised steel screws: stainless steel	G-0609		
	Type V bracket complete with screws		Material: bracket: galvanised steel screws: stainless steel	G-0610	ACCESSOR	
010 010 010	Type D bracket complete with screws		Material: bracket: galvanised steel screws: stainless steel	G-0611		
1 ½" 07 M8	Type P bracket		Material: bracket: galvanised steel screws: stainless steel	G-0480		
	Earthing continuity	Fori M20x1.5	Material:	B-479	PARE PART	
	plates for metal cable glands	Fori M25x1.5	brass	B-479/1		
	LED resin-bounded	EXEL-215L	LED tubes	B215-0300		
10 B		EXEL-230L	exec. Ex mb	B230-0300		
	Diffusore trasparente	EXEL-215L	Material:	B18-363	SPARE PART	
		EXEL-230L	polycarbonate	B36-363		
	Non-armoured cable gland complete with rub- bers, seal and lock nut	ISO M25x1,5	Ex e II IP 66/67 (std. range cavo 10-18)	UNI2LXE7DS	SPARE PART	
	Plug with seal and lock nut	ISO M25x1,5	Ex e II IP 66/67	PLG2ILXE7	SPARE PART	
	Hexagonal-head tool	Hexagon 10		CLAFT10	SPARE PART	
	Electronic inverter		110-240 Vac, 110-270 Vdc	EI-30L		
	Battery pack	Battery pack		4 Ah 6V NiCd	G-0309B	SPARE PART
			7 Ah 6V NiCd	G-0309		
	Electronic ballast	EXEL-215L	110/277 Vac 50/60 Hz 110/277 Vdc	EB215L		
0	Electronic ballast	EXEL-230L	220/240 Vac 50/60 Hz 220/240 Vdc	EBL4040-2		
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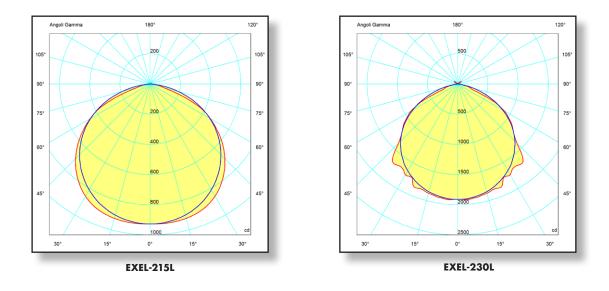
Connections can be made on either side of the fixture body for simple, fast installation





Electrical features	EXEL-215L	EXEL-230L		
Power supply:	220-240 Vac	220-240 Vac		
Rated frequency:	50-60 Hz	50-60 Hz		
Power consumption:	29 W	56 W		
Connection:	Direct connection to ter Section 4mm2, suitable			
Power factor:	>0,93 *	>0,98 *		
Rated current:	146 mA*	265 mA*		
EMC (electromagnetic compatibility):	EN 55015, EN 61547, IEC 6	61000-3-2, IEC 61000-3-3		
THD (total harmonic distortion):	<4% 230 V	′ac, 50 Hz		
Over-voltage protection:	4 kV	4 kV		
Driver performances:	Over-Voltage protection, Over-Current protection, Short-Circuit protection			
Photometric features				
LED:	Resin-bonde	d IED tubes		
Viewing angle:	120°	120°		
Colour temperature:	5000 K	5000 K		
CRI:	80	80		
Instant Restrike:	SI	SI		
Lumen:	2850 lm	5637 lm		
Maximum light intensity:	927 cd	1920 cd		
Overall efficiency:	927 ca 98 lm/W			
Overall efficiency:	70 III/ W	100 lm/W		

* Test at 220Vac



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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