EXEL-L

- Complete with high efficiency LED strips
- 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 resin body

Hinges

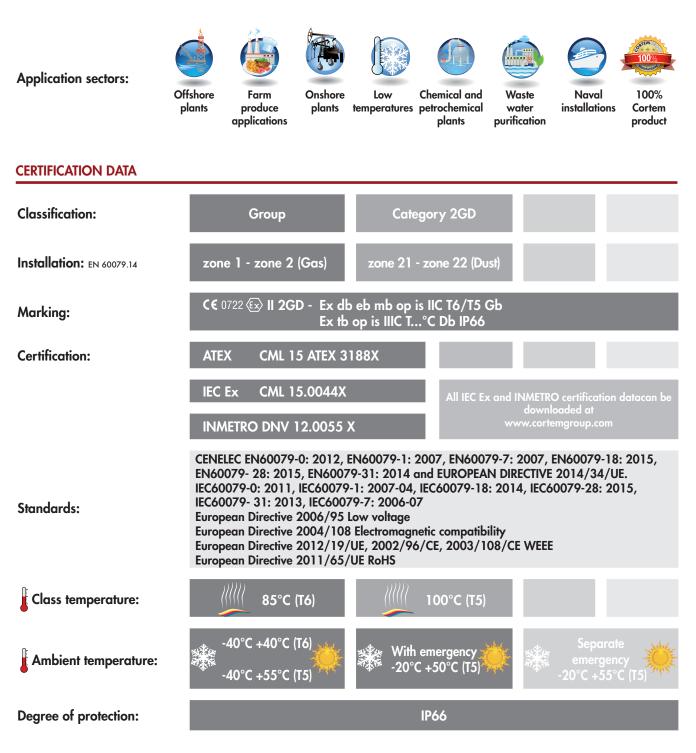
Transparent polycarbonate cover Certified LED strips

Detail of the internal side



EXEL-L series increased safety lighting fixtures for LEDs resin-bonded strips 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 strips sealed in a transparent resin. The LED strips 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 module and/or electrical component replacement. The EXEL-L series provides twelve 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: Diffuser:	Black shock and UV resistant fibreglass reinforced anti-static polyester resin Transparent polycarbonate, shock and UV resistant
Protected opening system:	Sliding system operated by a hexagonal-head tool (for safety reasons, the fixture can not be 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 NAVP25IXE-X6DS cable glands for non-armoured cable
Mounting:	Nickel plated brass inserts with 2 x M8 holes

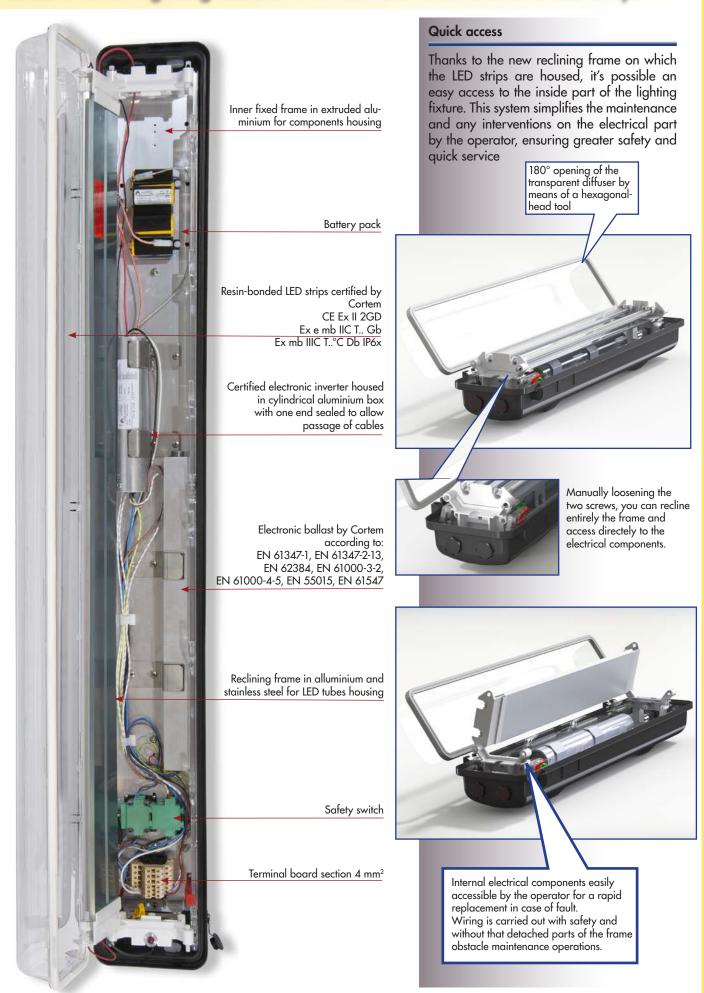
ELECTRICAL FEATURES

Ballast:	Electronic
Rated voltage:	110/277 Vac - 127/300 Vdc (EXEL-215L, EXEL-130L)
	220/240 Vac/dc (EXEL-230L)
	220/240 Vac (EXEL-115L)
Rated frequency:	50/60 Hz
Connection:	Directly to terminal board L, N, Pe section 4 mm ² 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-215LG) Cable entry: 4 x Ø20.5 holes. Lighting fixture kit contains 3 model PLG11LXE7 plugs and 2 model NAVP201XE cable glands for non-armoured cable (code EXEL-215L/20) Earthing continuity plates for metal cable glands



						•			
Code	А	Dimensi A1	ions mm B	C	Watt	LED strips n°	Power supply	Weight kg	mm
EXEL-115L	785	420	185	155	17	1	220-240 Vac 50/60Hz	4,9	195x155x820
EXEL-215L	785	420	185	155	29	2	110-277 Vac 50/60Hz 127- 300 Vdc	4,9	195x155x820
EXEL-130L	1370	720	185	155	29	1	110-277 Vac 50/60Hz 127- 300 Vdc	9,2	196x155x1400
EXEL-230L	1370	720	185	155	56	2	220-240 Vac/dc 50/60Hz	9,2	196x155x1400

Normal working

Normal + emergency working

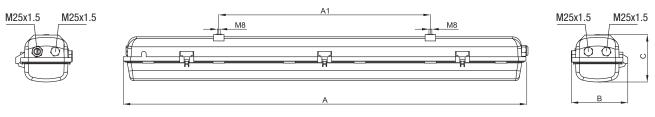
Code	Dimensions mm			m	Operating	LED	Dowor oupply	Wett	Discharge	Weight	
Coue	Α	A1	В	C	type	strips n°	Power supply	Watt	time in minutes	kg	mm
EXEL-115LEF4	785	420	185	155	normal + emergency	1	220-240 Vac 50/60Hz	17	180'	7,2	196x155x820
EXEL-215LEF4	785	420	185	155	normal + emergency	2	110-240 Vac 50/60Hz 127-270 Vdc	29	180'	7,2	196x155x820
EXEL-130LEF4	1370	720	185	155	normal + emergency	1	110-240 Vac 50/60Hz 127-270 Vdc	29	180'	10,1	196x155x1400
EXEL-230LEF4	1370	720	185	155	normal + emergency	2	220-240 Vac/dc 50/60Hz	56	180'	10,1	196x155x1400
EXEL-115LEF7	785	420	185	155	normal + emergency	1	220-240 Vac 50/60Hz	17	240'	7,2	196x155x820
EXEL-215LEF7	785	420	185	155	normal + emergency	2	110-240 Vac 50/60Hz 127-270 Vdc	29	240'	7,2	196x155x820
EXEL-130LEF7	1370	720	185	155	normal + emergency	1	110-240 Vac 50/60Hz 127-270 Vdc	29	240'	10,1	196x155x1400
EXEL-230LEF7	1370	720	185	155	normal + emergency	2	220-240 Vac/dc 50/60Hz	56	240'	10,1	196x155x1400

Single and double lamp units with separate emergency battery pack for temperatures of -20°C to + 55°C example code EXEL-115LEF4 ${\bf E}$

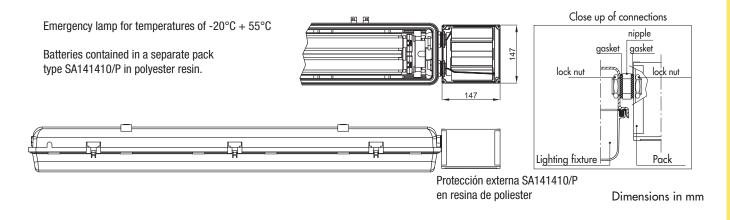
Only emergency working										
Code	D	Dimensions mm			Operating	LED strips	Power supply	Discharge supply time		
	Α	A1	В	C	type	n°		in minutes	kg	mm
EXEL-115LEE4	785	420	185	155	only emergency	1	110-240 Vac ±10% 50/60Hz	180'	7,2	196x155x820
EXEL-130LEE4	1370	720	185	155	only emergency	1	110-240 Vac/dc ±10% 50/60Hz	180'	10,1	196x155x1400
EXEL-115LEE7	785	420	185	155	only emergency	1	110-240 Vac ±10% 50/60Hz	240'	7,2	196x155x820
EXEL-130LEE7	1370	720	185	155	only emergency	1	110-240 Vac/dc ±10% 50/60Hz	240'	10,1	196x155x1400

Single and double lamp units with separate emergency battery pack for temperatures of -20°C to + 55° C example code EXEL-115LEE4**E**

DIMENSIONAL DRAWING



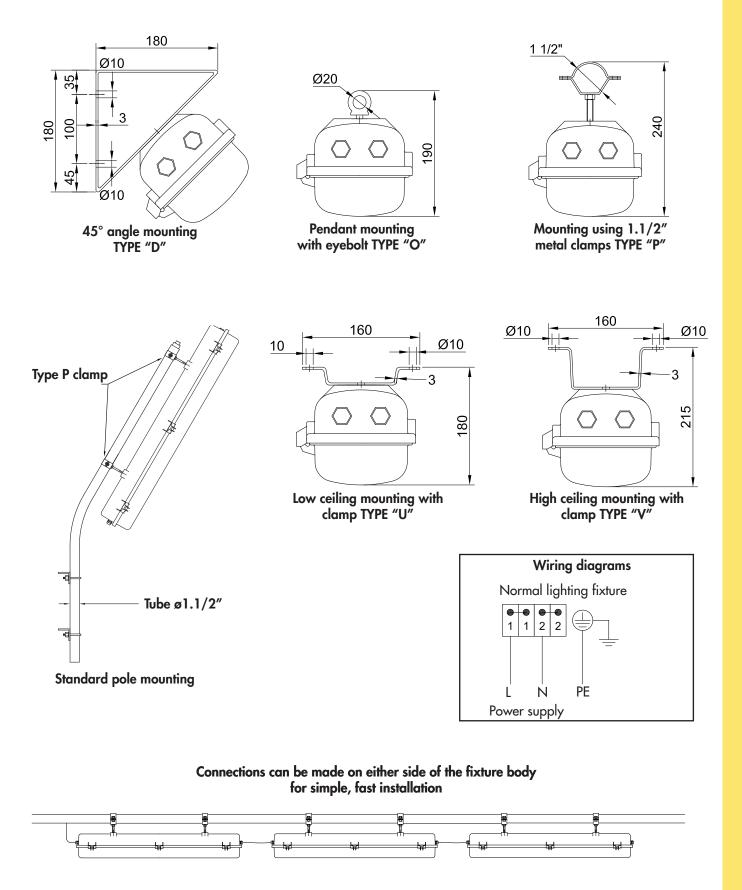
Single and double lamp units with separate emergency battery pack for temperatures of -20°C to + 55°C



DON'T FORGET TO ORDER THE ACCESSORIES							
Example: Type of lighting fixture + EXEL-215L	U bracket G-0609	+ othersee key	ACCESSORY				

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
M8	Tige	Length: 250 mm	Material: stainless steel	BRF8MIN/250	ACCESSOR
Q	Eyebolt		Material: galvanised steel	GOF-8	ACCESSORT
	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	
	Type D bracket complete with screws		Material: bracket: galvanised steel screws: stainless steel	G-0611	

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY	
	Type P bracket		Material: bracket: galvanised steel screws: stainless steel	G-0480	ACCOUNT OF A	
		EXEL-115L		B115-0300/1		
	LED resin-bounded	EXEL-215L	LED strips	B215-0300/1	SPARE PART	
(4 3)	module	EXEL-130L	exec. Ex mb	B130-0300/1		
		EXEL-230L		B230-0300/1		
		EXEL-115L		D10 000		
		EXEL-215L	Material:	B18-363	SPARE PART	
	Transparent diffuser	EXEL-130L	polycarbonate	B 00,000		
		EXEL-230L		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)	NAVP25IXE-X6DS	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/2		
	Battery pack		4 Ah 6V NiCd 7 Ah 6V NiCd	G-0309B G-0309	ANAL PAR	
		EXEL-115L	220/240 Vac 50/60Hz	EB115L	PARE PART	
	Electronic ballast	EXEL-215L EXEL-130L	100/277 Vac 50/60 Hz 127/300 Vdc	EB215L		
0	Electronic ballast	EXEL-230L	220/240 Vac/dc 50/60 Hz	EBL3040-1-90/1		
	Earthing continuity	Holes M25x1.5	Material:	B-479	SPARE PART	
0.0	plates for metal cable glands	Holes M20x1.5	brass	B-479/1		



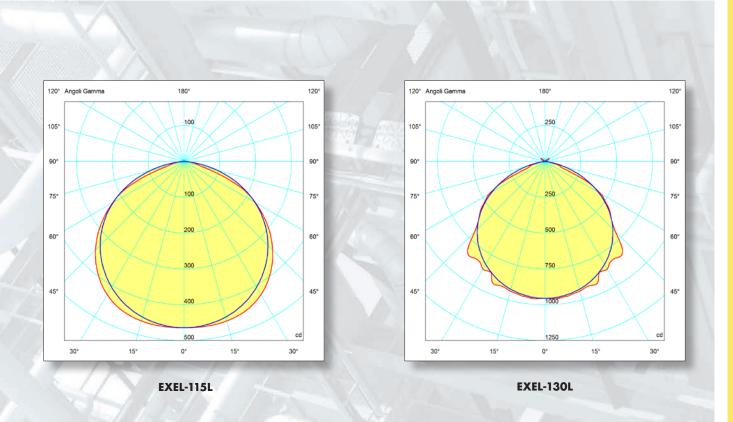


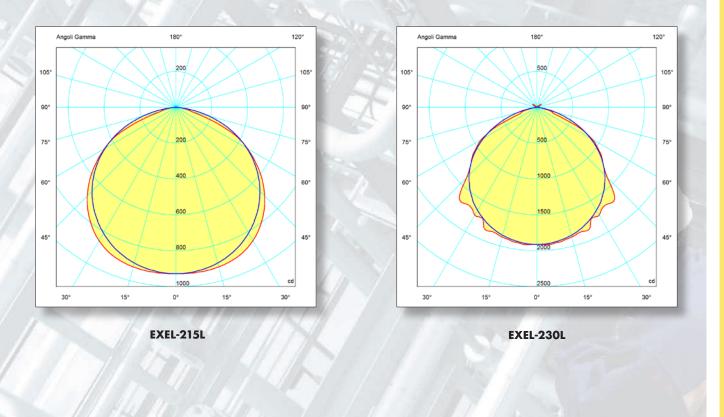
Electrical features	EXEL-115L	EXEL-215L	EXEL-130L	EXEL-230L				
Power supply:	220-240 Vac	110-277 Vac/dc	110-277 Vac/dc	220-240 Vac/dc				
Rated frequency:	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz				
Power consumption:	17 W	29 W	29 W	56 W				
Connection:	Direct connection to terminal board L, N, Pe. Section 4mm ² , suitable for loop-in/loop-out							
Power factor:	>0,94 *	>0,93 *	>0,93 *	>0,98 *				
Rated current:	81 mA*	146 mA*	146 mA*	265 mA*				
EMC (electromagnetic compatibility):	13	N 55015, EN 61547, IEC	61000-3-2, IEC 61000	-3-3				
THD (total harmonic distortion):		<4% 230 \	/ac, 50 Hz					
Over-voltage protection:	4 kV	4 kV	4 kV	4 kV				
Driver performances:	Over-Voltage protection, Over-Current protection, Short-Circuit protection							

Photometric features							
LED:	Resin-bonded LED strips						
Viewing angle:	120°	120°	120°	120°			
LED Colour temperature:	5000 K	5000 K	5000 K	5000 K			
CRI:	80	80	80	80			
Instant Restrike:	SI	YES	SI	YES			
Lumen:	1426 lm	2850 lm	2817 lm	5637 lm			
Maximum light intensity:	464 cd	927 cd	960 cd	1920 cd			
Overall efficiency:	84 lm/W	98 lm/W	98 lm/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 = plane 90270 of lighting levels in 2D and 3D, rendering and ray tracing. = plane 0180

ED.2022