

# Life<sup>x</sup>-M

- Complete with high efficiency LED strip lights
- Low consumption
- Compact size
- Easy to install
- Zone 1, 2, 21, 22
- 5 years warranty
- IK09 (IK10 with protective cage)



*Fastening brackets adjustable*

*Aluminium alloy extrusion*



Fastening brackets with 2 holes  
M8, adjustable 0° to ±30°  
“Cortem Group Technology”



*Metal cable glands*

## LifEx-M series Linear LED lighting fixture in aluminum

LifEx-M lighting fixtures are the first LED native linear fixtures, featuring an innovative design by Cortem Group, created in response to customer requirements.

The product architecture has been carefully designed. The aim is to manage the full product lifecycle optimally as part of a circular economy, and maximise the product's useful life. The result is a compact, lightweight lighting fixture that is easy to install, while also being robust and long lasting.

They feature a high-quality anodised aluminium body and a glass diffuser which is resistant to impact and high temperatures. They have an innovative bracket mechanism, with no fixed interaxis spacing limitations, which makes them easy to install or retrofit and means the lighting fixture can be rotated to  $-30^{\circ}/0^{\circ}/+30^{\circ}$ . The LifEx range comes in different lengths with a wide array of voltage and power specifications. The range has been optimally designed and certified according to the installation zone and, in addition to passing all tests required by the regulations, it has passed additional mechanical and electrical tests such as vibration testing, IP66, soft start, surge testing and more.

The use of high-power LED strip lights provides a lumen output from 1,000 lm to 15,500 lm, making the range highly efficient and long lasting in terms of its electronics and light engineering.

### Sectors of application:



Offshore facilities



Agribusiness facilities



Onshore facilities



Low temp. environments



Chemical and petrochemical facilities



Waste water treatment plants



Naval installations



100% produced by Cortem

### CERTIFICATE DATA

#### Classification:

Group II

Category 2GD/3G

#### Installation: EN 60079.14

zone 1, 2, 21, 22  
LifEx-ME

zone 2, 21, 22  
LifEx-MN

#### Marking:

CE 0722 Ex II 2GD - Ex db eb mb IIC T.. Gb - Ex tb IIIC T..°C Db - IP66

LifEx-ME

CE Ex II 3G - Ex nR IIC T.. Gc  
CE 0722 Ex II 2D - Ex tb IIIC T..°C Db - IP66

LifEx-MN

#### Certificate:

ATEX CML 20 ATEX 3018X

LifEx-ME

ATEX CML 20 ATEX 3019X  
ATEX CML 20 ATEX 3018X

LifEx-MN

IEC Ex CML 20.0008X

UKEX AVAILABLE

INMETRO AVAILABLE

UL PENDING

For all IEC Ex, INMETRO, TR CU and UKEX certificate data download the certificate from [www.cortemgroup.com](http://www.cortemgroup.com)

#### Standards:

CENELEC EN60079-0: 2018, EN60079-1: 2014, EN60079-7: 2015-18, EN60079-15: 2019, EN60079-18: 2015-17, EN60079-31: 2024, EN60598-2-22 and EUROPEAN DIRECTIVE 2014/34/EU  
IEC60079-0: 2017, IEC60079-1: 2014, IEC60079-15: 2017, IEC60079-18: 2017, IEC60079-31: 2022, IEC60079-7: 2017  
European Directive 2004/108 Electromagnetic compatibility  
European Directive 2012/19/UE, 2002/96/CE, 2003/108/CE WEEE  
European Directive 2011/65/UE RoHS

#### Temperature class:

For all permitted ambient temperature classes, please see the "Selection tables"

#### Ambient temperature:

-60°C for models without a battery  
-20°C or -60°C\* for versions with a battery

For all permitted ambient temperature ranges, please see the "Selection tables"

#### Degree of protection:

IP66



\* Emergency lighting fixture with special battery for -60°C

## LifEx-M series Linear LED lighting fixture in aluminum



ORIGINAL PRODUCT



For more  
information  
on electrical  
connectors



### MECHANICAL FEATURES

<b>Body:</b>	Aluminium alloy extrusion and end caps, resistant to atmospheric and marine corrosion
<b>Clear part:</b>	Tempered glass resistant to shocks, impact and UV rays
<b>Gaskets:</b>	Acid and hydrocarbon resistant silicone
<b>Internal frame:</b>	Aluminium extrusion
<b>Screws:</b>	Stainless steel
<b>Entry points:</b>	Max. 4 entries Ø25.5. Standard version with 2 holes Ø20.5 side (1) complete with 1 NAV20IB and 1 PLG11B. For the other versions, plugs and cable glands are on request
<b>Assembly:</b>	Fastening brackets for M8 holes, adjustable 0° to ±30°

### ELECTRICAL FEATURES

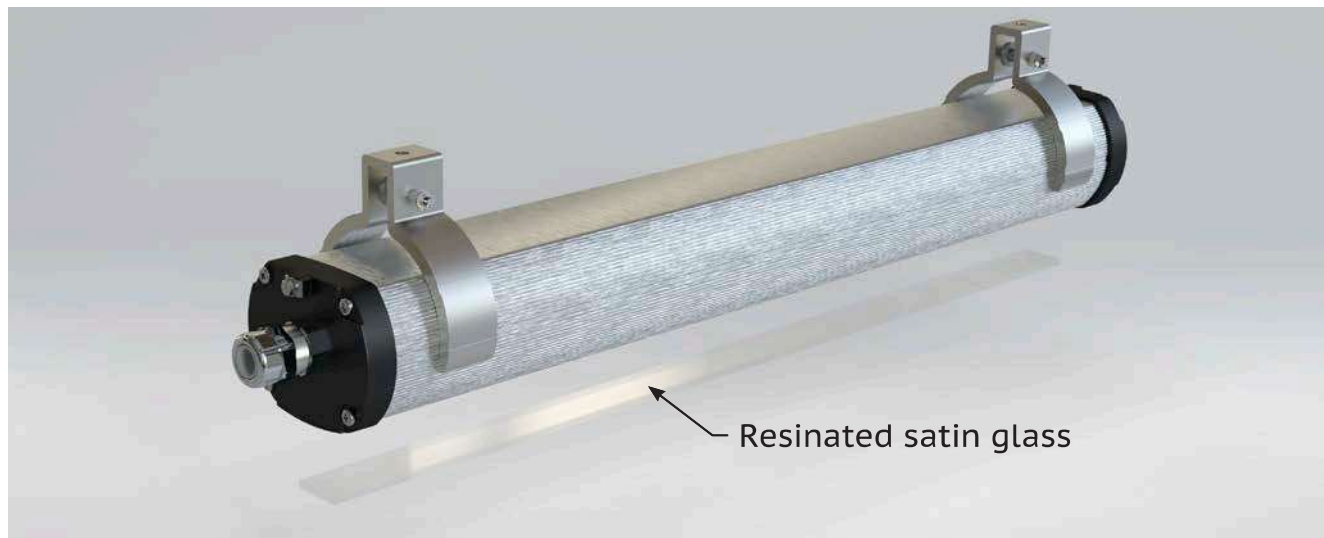
<b>Power unit:</b>	Electronic
<b>Rated voltage:</b>	110-277 Vac (for more information, see the Selection tables)
<b>Rated frequency:</b>	50/60 Hz
<b>Connection:</b>	Directly to the terminal board L, N, Pe cross sec. max. 4 mm <sup>2</sup> jumpered terminal board suitable for in-out from a single side
<b>Emergency unit:</b>	Electronic inverter 110/277 Vac 50/60 Hz, 110/270 Vdc. Batteries Ni/Mh, 1.8 Ah or 3 Ah, 6V
<b>Cabling:</b>	Battery charging monitored by high luminosity green LED Rigid cables for high temperatures

### ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

Pole fastening mechanism  
Cage  
Coloured LED strip lights  
Emergency lighting fixture with battery box to facilitate battery maintenance/replacement operations (example code: LifEx-ME-1230N-AE)  
Emergency lighting fixture with battery heater (internal component) for ambient temperatures of -60°C, supplied voltage 230Vac. (example code: LifEx-ME-1230NH)  
Connection through wiring (code example: LifEx-ME-1230-AAT)  
Dimming of lighting fixtures with DALI standard (Contact our Sales Office for availability)  
Driver multirange  
Vdc voltage range  
Cable gland and plugs  
Electrical connectors

## LifEx-M series Linear LED lighting fixture in aluminum

The LifEx is a range of tubular LED lighting fixtures that are available in two different configurations for different applications, designated as the **LifEx-ME** and **LifEx-MN**.



### LifEx-ME

The "ME" versions are designed to be used in ATEX areas classified as "Zone 1-2" and "Zone 21-22", that is where the equipment installed must guarantee a high level of protection both in the presence of mixtures of gases, vapours and mists (Zone 1) and in the presence of combustible dusts and particles (Zone 21). LifEx-ME has an EPL (Equipment Protection Level) Gb, Db.

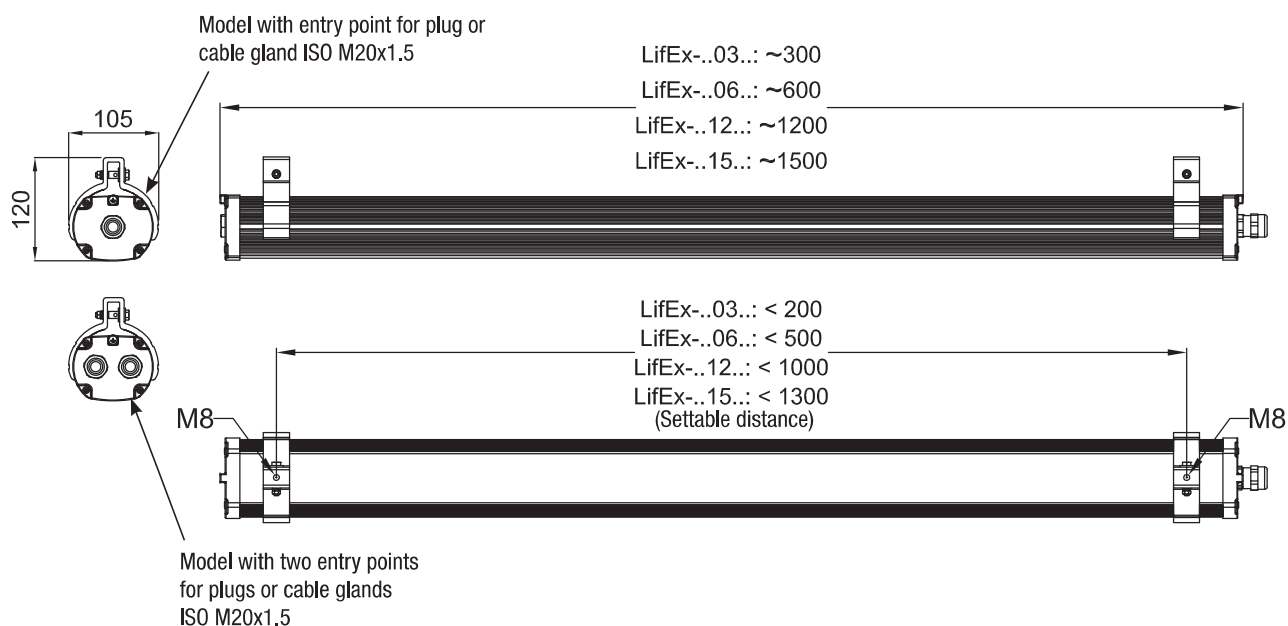
This safety is guaranteed by a combination of protection methods 'Ex db eb mb' for gas and 'Ex tb' for dust.

### LifEx-MN

The "MN" versions are designed to be used in ATEX areas classified as "Zone 2" and "Zone 21-22", that is where the equipment installed must guarantee a normal level of protection in the presence of mixtures of gases, vapours and mists (Zone 2), and a high level of protection against dusts and combustible particles (Zone 21). LifEx-MN has an EPL (Equipment Protection Level) Gc, Db.

This safety is guaranteed by the 'Ex nR' protection methods for gases and 'Ex tb' for dusts.

## DIMENSIONAL DRAWING







## LifEx-M series Linear LED lighting fixture in aluminum

### Selection table.

Temperature classes and maximum surface temperatures.

Normal operation											
Code	Real power Watt	Rated power Watt	Supply voltage Volt	Temperature class / Maximum surface temperature			Lumen lm	Light intensity cd	Overall efficiency lm/W	Weight kg	mm
				+40°C	+50°C	+60°C					
LifEx-ME-0315	13,9	15,0	220-240 Vac	T57°C/T6	T67°C/T6	T77°C/T6	1865	738	134	1,5	541x103x132
LifEx-ME-0330	26,6	30,0	220-240 Vac	T58°C/T6	T68°C/T6	T78°C/T5	3697	1345	140	1,5	541x103x132
LifEx-ME-0615	15,0	15,0	220-240 Vac	T57°C/T6	T67°C/T6	T77°C/T6	2008	777	134	2,5	840x103x132
LifEx-ME-0630	26,2	30,0	110-277 Vac	T80°C/T6	T90°C/T5	T100°C/T4	3677	1345	140	2,5	840x103x132
LifEx-ME-0645	43,5	45,0	110-277 Vac	T83°C/T5	T93°C/T5	-	6200	2248	143	2,5	840x103x132
LifEx-ME-0660	54,5	60,0	110-277 Vac	T95°C/T5	-	-	8011	2924	147	2,5	840x103x132
LifEx-ME-1230	29,0	30,0	110-277 Vac	T60°C/T6	T70°C/T6	T80°C/T6	4112	1451	142	3,5	1398x103x132
LifEx-ME-1260	55,7	60,0	110-277 Vac	T80°C/T6	T90°C/T5	T100°C/T4	8316	2930	149	3,5	1398x103x132
LifEx-ME-1290	79,3	90,0	120-277 Vac	T89°C/T5	T99°C/T4	T109°C/T4	12228	4323	154	3,5	1398x103x132
LifEx-ME-12120	102,6	120,0	220-277 Vac	T91°C/T5	T101°C/T4	-	16029	5662	156	3,4	1398x103x132
LifEx-ME-1590	78,6	90,0	120-277 Vac	T89°C/T5	T99°C/T4	T109°C/T4	11926	4204	152	4,0	1738x103x132

Normal operation + emergency										
Code	Real power Watt	Rated power Watt	Supply voltage Volt	Temperature class / Maximum surface temperature			Lumen lm **	Discharge time in minutes	Weight kg	 mm
				+40°C	+50°C	+60°C				
LifEx-ME-0615N	15,0	15,0	220-240 Vac	T57°C/T6	T67°C/T6	T77°C/T6	980	90	3,0	840x103x132
LifEx-ME-0630N	26,2	30,0	220-240 Vac	T80°C/T6	T90°C/T5	T100°C/T4	980	90	3,0	840x103x132
LifEx-ME-1230N*	29,0	30,0	110-277 Vac	T60°C/T6	T70°C/T6	T80°C/T6	994	180	4,5	1398x103x132
LifEx-ME-1260N*	55,7	60,0	110-277 Vac	T80°C/T6	T90°C/T5	T100°C/T4	994	180	4,5	1398x103x132
LifEx-ME-1590N*	78,6	90,0	120-277 Vac	T89°C/T5	T99°C/T4	T109°C/T4	932	180	5,0	1738x103x132

Emergency operation only								
Code	Supply voltage Volt	Temperature class / Maximum surface temperature			Lumen lm	Discharge time in minutes	Weight kg	 mm
		+40°C	+50°C	+60°C				
LifEx-ME-0615E*	110-277 Vac	T57°C/T6	T67°C/T6	T77°C/T6	1167	90	2,5	840x103x132
LifEx-ME-1230E*	110-277 Vac	T60°C/T6	T70°C/T6	T80°C/T6	1151	90	3,5	1398x103x132

\* Models with emergency feature available -60°C

\*\* Lumen in emergency operation.

The lumens in normal operation are the same as the versions without "N".

### ORDER CODE LOGIC

