

LFED

- Zone 1, 2, 21, 22
- Group IIB+H₂
- LED lighting
- Aluminium casing
- Tempered front glass








LFED emergency lighting fixture

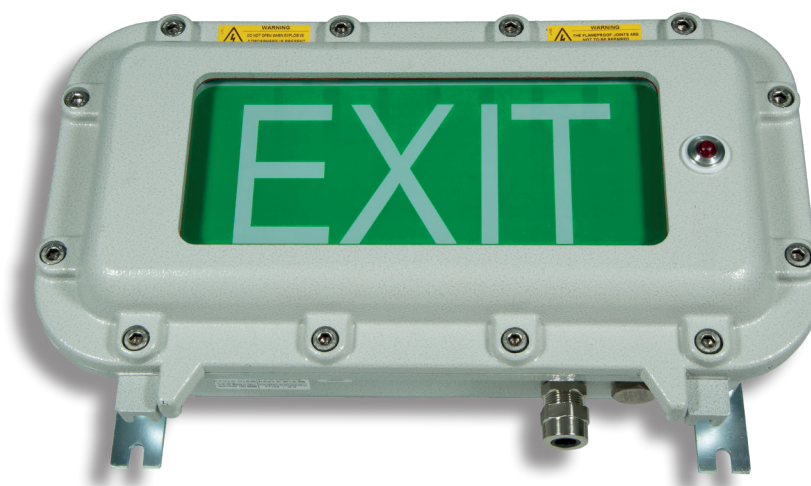
The explosion-proof LFED series emergency lighting fixtures are designed for lighting and identifying emergency exits or escape routes in the event of danger. The LFED series consists of low copper content aluminium alloy casing, a tempered glass window printed with a pictogram and a resin LED strip light positioned at the distance required to guarantee 'Ex op is' protection. The emergency versions are fitted with a high-brightness LED indicator light that monitors battery operation and notifies the user in the event of a fault. It switches on automatically if there is a power failure, and lasts between 3 and 5 hours depending on the capacity of the chosen batteries. The red LED switches off to indicate that the batteries need replacing either because of a fault in the emergency circuit or because they are flat.

Sectors of application:



CERTIFICATE DATA

| | | | | |
|---------------------------|---|---|--|--|
| Classification: | Group II | Category 2GD | | |
| Installation: EN 60079.14 | zone 1 - zone 2 (Gas) | zone 21 - zone 22 (Dust) | | |
| Marking: | CE 0722 Ex II 2GD Ex db op is IIB+H ₂ T6 Gb - Ex tb op is IIIC T72°C Db IP 66 | | | |
| Certificate: | ATEX EPT 18 ATEX 2969 X | For all IEC Ex certificate data, download the certificate from www.cortemgroup.com | | |
| | IEC Ex SEV 18.0018X | | | |
| Standards: | CENELEC EN 60079-0: 2012+A11: 2013, EN 60079-1: 2014, EN 60079-28: 2015, EN 60079-31: 2014, and EUROPEAN DIRECTIVE 2014/34/EU IEC 60079-0: 2017, IEC 60079-1: 2014, IEC 60079-28: 2015, IEC 60079-31: 2013 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: |  72°C (T6) | | | |
| Ambient temperature: |  Normal -60°C +60°C  |  With emergency -40°C +60°C  | | |
| Degree of protection: | IP66 | | | |



ORIGINAL PRODUCT

MECHANICAL FEATURES

| | |
|-------------------------------------|---|
| Body and lid: | Low copper content aluminium alloy |
| Front glass: | Tempered, resistant to high temperatures and shocks |
| Gasket: | Silicone resistant to acids, hydrocarbons and high temperatures |
| Screws, bolts and nuts: | Stainless steel |
| Fastening brackets: | Electrogalvanized steel |
| Entry points: | 2 entry points ISO 20. Fixture complete with a PLG11B plug and NAV20SIB cable gland |
| Coating: | Polyester RAL 7035 (Light grey) |
| Resistenza alla corrosione : | The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test). |

ELECTRICAL FEATURES

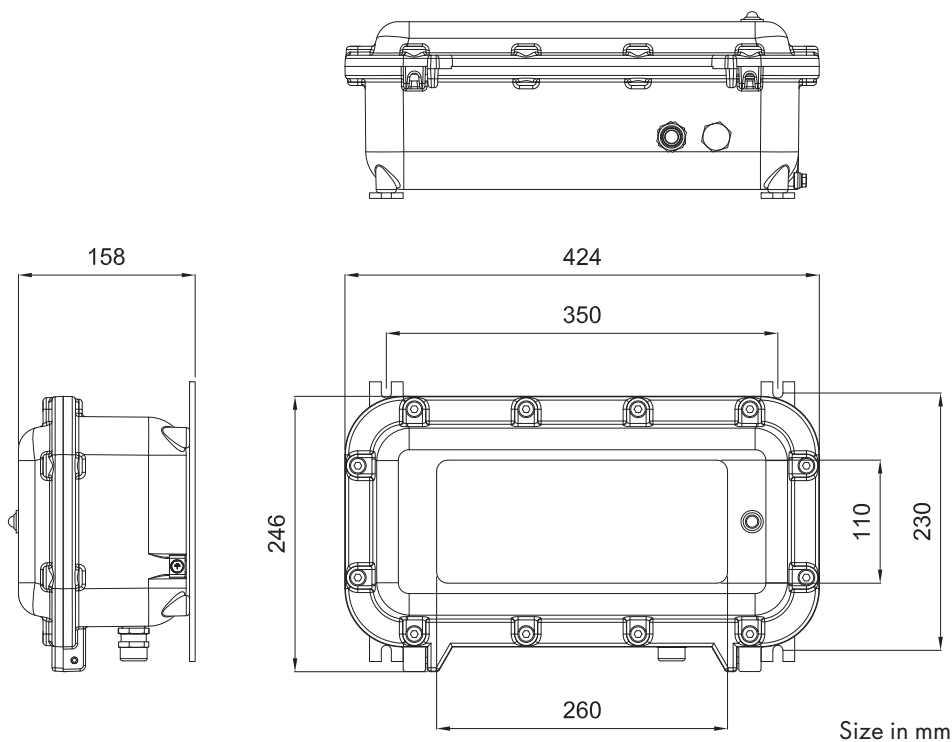
| | |
|------------------------------------|--|
| Autonomy in emergency mode: | 2 Ah: 3 hours 2.5 Ah: 4 hours 3.1 Ah: 5 hours |
| Rated voltage: | Normal operation only: 110-277 Vac / 156-277 Vdc Emergency operation only: 110-240 Vac / 110-240 Vdc Normal + emergency operation: 110-240 Vac / 156-240 Vdc |
| Rated frequency: | 50/60 Hz |
| Connection: | Directly to the terminal board L, N, Pe cross sec. 4 mm ² , jumpered terminal board suitable for in-out |
| Emergency unit: | Electronic inverter 110/240 Vac 50/60 Hz, 110-270 Vdc. Batteries Ni/Cd or Ni/Mh |
| Cabling: | Silicone rubber cables with braided fibreglass protection for high temperatures |
| Charge level: | High-brightness LED indicator light, consumption 20 mA, showing the battery charge level for emergency versions. |

NOTE: the technical and electrical data may change without prior warning owing to continuous developments in LED technology.

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

Additional cable gland for in-out connection.
Pictogram on request.
External polyester coating in a different colour or internal anti-condensation coating.

DIMENSIONAL DRAWING








CODES

LFED - 112

1 strip - 12 W

Operation
empty = normal
E = emergency only
N = normal + emergency

Pictogram
empty =  (EXIT)
/S =  (exit left)
/D =  (exit right)
/G =  (exit straight ahead)
/T =  (transparent)

Battery capacity
empty = 2.5 Ah
2 = 2 Ah
31 = 3.1 Ah

Sample order code

LFED-112N/G31

Normal + emergency version lighting fixture, with exit straight ahead pictogram, with 3.1 Ah batteries.

DO NOT FORGET TO ORDER THE ACCESSORIES

Example:

Type of fixture
LFED- 112N/S31

+





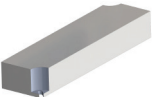

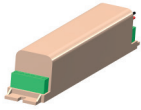










Cable gland (additional)
NAV20SIB

+

Other (see legend)



LFED emergency lighting fixture

| ILLUSTRATION | DESCRIPTION | MODEL | FEATURES | CODE | LEGEND |
|---|-----------------------------------|---------|--|-----------------|---|
|  | LED strip light | | LED module (not resined) | LTT8350 |  |
|  | Battery | | Nickel-cadmium 2 Ah | BATT2AH/NC/BA |  |
| | | | Nickel-cadmium 2.5 Ah | BATT2.5AH/NC/BA | |
| | | | Nickel-metal hydride 3.1 Ah | BATT3.1AH/NM/BA | |
|  | Electronic power unit | | 110-295 Vac 156-277 Vdc | LEDDLFE-112 |  |
|  | LED inverter | | 110/240 Vac 50/60 Hz 110/270 Vdc | INVERTER/LED/1 |  |
|  | Single LED | | Colour: red | M-0487/920 |  |
|  | Fastening bracket | | Material: galvanized steel | K2-237 |  |
|  | O-ring between body and lid | | Material: red silicone | K2-131/1S |  |
|  | Cable gland | ISO M20 | std. cable range: 6,3÷11,6 | NAV20SIB |   |

INTERNAL VIEW

