# LFEE

- Zone 1, 2, 21, 22
- Group IIC
- LED lighting
- Stainless steel casing



# LFEE emergency lighting fixture

The increased safety LFEE series emergency lighting fixtures are designed for lighting and identifying emergency exits or escape routes in the event of danger. The LFEE series consists of AISI 316L stainless steel casing, a tempered glass or UV-resistant polycarbonate 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 runs for up to 6 hours.
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:**




Petroleum refineries | Chemical and petrochemical facilities | Tanker loading/unloading areas | Tanker loading/unloading areas | Passageways | Emergency exits | Stair handrails | Perimeter zone lighting

## 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 eb mb op is IIC T... Gb - Ex tb op is IIIC T...°C Db IP 66 | | | |
| **Certificate:** | ATEX CML 18 ATEX 3150X<br>IEC Ex IECEx CML 18.0079X | For all IEC Ex and ATEX certificate data, download the certificate from www.cortemgroup.com | | |
| **Standards:** | CENELEC EN 60079-0: 2012+A11: 2013, EN 60079-18: 2015, EN 60079-1: 2014, EN 60079-28: 2015, EN 60079-7: 2015, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/EU<br>IEC 60079-0: 2017, IEC 60079-1: 2014-06, IEC 60079-7: 2015, IEC 60079-18: 2014, IEC 60079-28: 2015, IEC 60079-31: 2013<br>European Directive 2004/108 Electromagnetic compatibility<br>European Directive 2012/19/UE, 2002/96/CE, 2003/108/CE WEEE<br>European Directive 2011/65/UE RoHS | | | |
| **Temperature class:** | 60° (T6) | 70° (T5) | | |
| **Ambient temperature:** | Normal -30°C +45/55°C | With emergency -20°C +45/55°C | | |
| **Degree of protection:** | IP66 | | | |

# LFEE emergency lighting fixture







ORIGINAL PRODUCT

## MECHANICAL FEATURES

| | |
|---|---|
| **Body and lid:** | Stainless steel AISI 316L |
| **Window:** | Tempered glass or polycarbonate |
| **Glass:** | Tempered, resistant to high temperatures and shocks |
| **Polycarbonate:** | Highly transparent, resistant to UV rays and shocks |
| **Gaskets:** | Resistant to acid, hydrocarbon and high temperatures, positioned between the body and the lid. |
| **Screws, bolts and nuts:** | Stainless steel |
| **Assembly:** | 4 fastening brackets in stainless steel AISI 316L |
| **Entry points:** | 2 entry points diameter 20.5. Fixture complete with a PLG1IB plug and NAV20SIB cable gland |

## ELECTRICAL FEATURES

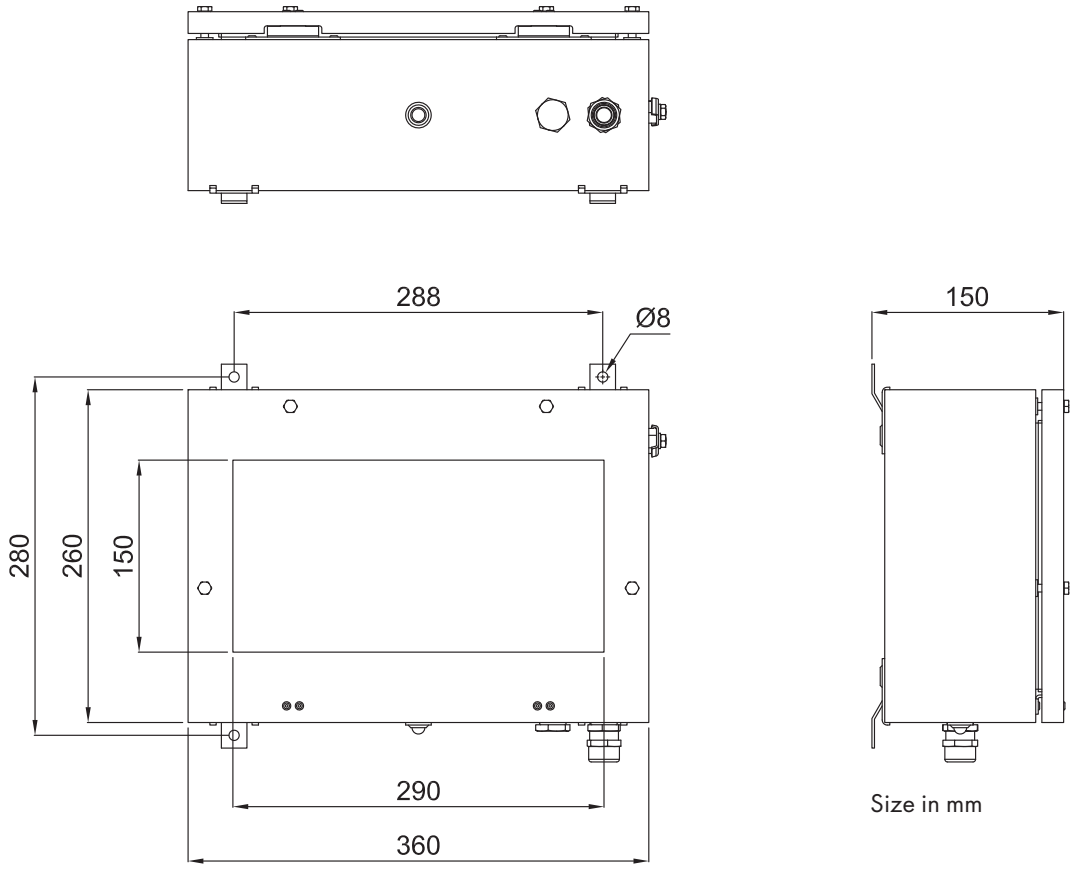
| | |
|---|---|
| **Autonomy in emergency mode:** | 6 hours |
| **Rated voltage:** | Normal operation only: 110-240 Vac / 127-240 Vdc<br>Emergency operation only: 110-240 Vac / 110-240 Vdc<br>Normal + emergency operation: 110-240 Vac / 127-240 Vdc |
| **Rated frequency:** | 50/60 Hz |
| **Connection:** | 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, 4 Ah |
| **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 with various words/lettering on request.

## DIMENSIONAL DRAWING




Size in mm

## CODES

**LFEE - 112** [ ] [ ] [ ]

**1 strip - 12 W**

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

**Transparent material**
empty = glass
P = polycarbonate

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

### Sample order code

LFEE-112EP/D
Lighting fixture, emergency version only, with exit right pictogram.

**DO NOT FORGET TO ORDER THE ACCESSORIES**

**Example:** Type of fixture LFEE- 112N/G + Cable gland (additional) NAV20SIB + Other (see legend)

# LFEE emergency lighting fixture

| ILLUSTRATION | DESCRIPTION | MODEL | FEATURES | CODE | LEGEND |
|---|---|---|---|---|---|
|  | LED strip light | | Resin LED module | **LTT8350E** | SPARE PART |
|  | Single LED | | Colour: red | **M-0487/330** | SPARE PART |
|  | Battery unit | | 4 Ah 6V NiCd | **G-0309B** | SPARE PART |
|  | Inverter | | 110/240Vac 50/60 Hz, 110-270 Vdc | **EI-30L/2** | SPARE PART |
|  | Power unit | | 110-240 Vac | **EB208L** | SPARE PART |
|  | Additional cable gland | ISO M20 | std. cable range: 6.3-14 | **NAV20SIB** | ACCESSORY SPARE PART |

## INTERNAL VIEW

