

LED LIGHTING FIXTURES



LED
Lighting Fixtures

EVL SERIES

EVL series features Multichip LED formed by a matrix of LEDs connected together and covered with a layer of diffused phosphorus. This technology allows to obtain high values of lumen output and the installation at low heights, without the risk of disturbing the operator. EVL series represents the LED alternative for all those areas in which it was usual to use lighting fixtures with discharge lamps of low and medium power more than 400W.

- LED lighting system "COB" (ChipOnBoard).
- Four lighting fixtures sizes: EVL-60, EVL-70, EVL-80, EVL-100.
- High efficiency electronic ballast multi voltage.
- Available EVL-60B and EVL-70B series floodlights, also as obstruction lighting equipment (EVL-60B/G)

Group II, Category 2GD

Ex de IIC T.. Gb - Ex tb IIIC T...°C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

LED LIGHTING FIXTURES



LED
Lighting Fixtures

EVML-50

EVML lighting fixtures have been conceived to offer a Low Bay lighting fixture that could replace incandescent equivalents at lower costs. They are suitable for the illumination of small areas in which it's necessary to limit the obstruction such as tunnels, passages, corridors, stairways, perimeter walls and command and control cabins. The model with the side entry meets, at last, some specific installation needs, reducing the overall dimensions (code EVML-50L).

- 'Ex e mb' method of protection.
- The electronic board and the LEDs are protected with silicone of high transparency.
- Available also EVML-50/G series obstruction lighting fixtures a LED plate and a globe of different colours

Group II, Category 2GD

Ex e mb IIC T.. Gb - Ex tb IIIC T..°C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

TANK AND VESSEL INSPECTION LED LIGHTING FIXTURES



LED
Lighting Fixtures

EVML-50/O.. SERIES

EVML-50/O.. series lighting fixtures have been designed to illuminate and monitor hazardous materials contained inside tanks and cisterns thanks to a bracket for the coupling with the porthole flange.

- 'Ex e mb' method of protection.
- The electronic board and the LEDs are protected with silicone of high transparency.
- Four different size of flange.

Group II, Category 2GD

Ex e mb IIC T6 Gb - Ex tb IIIC T60°C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

LED LIGHTING FIXTURES



LED
Lighting Fixtures

EVNL SERIES

Suitable for plants in zone 2 and zone 22 keeping cost reductions at the foreground, improving the quality of the product and increasing the lighting solution specifications.

The advantage of the EVNL lighting fixtures is the implementation of the "Ex nR" version which classifies the equipment as a restricted breathing device. The careful design together with the meticulous choice of materials to seal the lighting fixture limits the entry of flammable gases, vapours or mists during normal operation of the lighting fixture.

- LED lighting system "COB" (ChipOnBoard).
- Four lighting fixtures sizes: EVNL-60, EVNL-70, EVNL-80, EVNL-100.
- High efficiency electronic ballast multi voltage.

Group II, Category 3GD

Ex nr IIC T.. Gc - Ex tc IIIC T..°C Dc

IP66

Zone 2-22

Low copper content aluminium alloy

LED LIGHTING FIXTURES AND FLOODLIGHTS



LED
Lighting Fixtures

EVNL-B SERIES

The advantage of the EVNL-B lighting fixtures is the implementation of the "Ex nR" version combined with the "Ex op is" which classifies the equipment as a restricted breathing device with certified optical safety. The EVNL-B series can be supplied with 10°, 20° and 40° optics (60° and 80° optics are also available for the EVNL-60B series) fitted directly on the LED board, which modify the photometry allowing different concentrations of the light beam. An advantage provided by the LED floodlights of the EVNL-B series is the assurance that lighting will never fail. In fact, if one LED stops working, the others will continue.

- Heat dissipation body which guarantees the LED plate long duration.
- As floodlights, the LED plate can be accompanied by an optics that vary the photometry.
- High efficiency electronic ballast multi voltage.

Group II, Category 2GD

Ex db eb op is IIC T.. Gb
Ex tb IIIC T.. °C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

'Ex op is'
safe optical radiation

LED LIGHTING FIXTURES AND FLOODLIGHTS



LED
Lighting Fixtures

EWL SERIES

EWL series floodlights and lighting fixtures are designed according to the LED technical requirements in order to make the most of this new technology. The project combines a lightweight and compact design with high performance in terms of reliability, safety, efficiency and energy savings, ensuring unalterable brightness and light quality.

- Heat dissipation body which guarantees the LED plate long duration.
- As floodlights, the LED plate can be accompanied by an optics that vary the photometry.
- Simple installation and continuous illumination even in the event of failure of some LEDs.
- 'Ex e' internal terminal junction box which allows the connection with an 'Ex e' cable gland (not barrier).
- Designed to replace traditional up to 700W mercury, 400W metal halide and 500W incandescent lamps for power and quality of light emitted thus saving 50% of the energy consumed.

Group II, Category 2GD

Ex db eb op is IIC T.. Gb
Ex tb IIIC T.. °C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

'Ex op is'
safe optical radiation

LIGHTING FIXTURES FOR ENERGY SAVING AND DISCHARGE LAMPS LAMPS



EV, EVE, EW, EWA, EWE, EWAE SERIES

EV... EW... EWA... series lighting fixtures are designed for the petrochemical industry, combining aesthetics with functionality, performance with simplicity in full compliance with the severity of Ex regulations. The aluminium alloy with low copper content, the shock-resistant borosilicate glass and the electropolished stainless steel make this fixture strong to corrosion agents of salt atmospheres and of industrial pollutions.

- Globe in borosilicate glass with high thermal and mechanical stability.
- EVE fixtures have an 'Ex e' internal terminal junction box which allows the connection with an 'Ex e' cable gland (not barrier).
- Suitable for discharge lamps up to 150W (EW, EWE) and up to 400W (EWA, EWAE).

Group II, Category 2GD

EV, EW, EWA series
Ex d IIC T.. Gb - Ex tb IIIC T.. °C Db

EVE, EWE, EWAE series
Ex de IIC T.. Gb - Ex tb IIIC T.. °C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

LIGHTING FIXTURES FOR DISCHARGE LAMPS



EWN SERIES

EWN series lighting fixtures are able to mix structural strength and resistance to chemically aggressive environments with a lighting efficiency and an optimal distribution for industrial process areas where both the lighting of on-walk-way and working surfaces (Horizontal Lux) and the lighting of potential obstructions (Vertical Lux) are required. The 'Ex nR' (restricted briefing) mode of protection, obtained thanks to the use of special silicone gaskets resistant to ageing and wear, makes EWN series a "Category 3" equipment.

- Simplified re-lamping.
- High resistance to corrosion and extreme weather conditions.
- Suitable for discharge lamps up to 400W.

Group II, Category 3GD

Ex nR IIC T... Gc - Ex tc IIIC T... Dc

IP66

Zone 2-22

Low copper content aluminium alloy

LIGHTING FIXTURES FOR DISCHARGE LAMPS



RLFE SERIES

RLFE series lighting fixtures for discharge lamps are suitable for lighting large areas, specifically for chemical and petrochemical industry, off-shore and on-shore. The body is made of aluminium alloy with low copper content, the globe is of borosilicate glass. They have an high thermal and mechanical stability.

- Quick and simple maintenance.
- Robust and reliable over time.
- Suitable for discharge lamps up to 400W.

Group II, Category 2GD

Ex de IIC T. Gb - Ex tb IIC T. Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

LIGHTING FIXTURES FOR LEDS TUBES, FOR FLUORESCENT TUBES, AND COMPACT FLUORESCENT TUBES

LED
Lighting Fixtures



FLF, FLFE, EVFD-L SERIES

FLF and FLFE series lighting fixtures are available for fluorescent tubes, compact fluorescent tubes (FLF/FLFE...36C) and LED tubes (FLF/FLFE...L). They consist of two heads in aluminum alloy with low copper content provided with a G13 lamp holders, a tempered borosilicate glass tube heat resistant and an internal white painted aluminium reflector. EVFD-L lighting fixtures are designed for a uniform illumination of locations and facilities that require compact devices and high luminous efficiency. The exclusive curvature of the reflector, combined with the transparency of the protective tube, allows a wide spread of light, less wearing and more comfortable in any environment.

- FLF, FLFE series: excellent "CX" coefficient, less wind resistance and less accumulation of dust.
- FLFE fixtures have an 'Ex e' internal terminal junction box which allows the connection with an 'Ex e' cable gland (not barrier).

Group II, Category 2GD

FLF series

Ex d IIC T6 Gb - Ex tb IIC T67°C Db

FLFE series

Ex de IIC T6 Gb - Ex tb IIC T67°C+T80°C Db

EVFD series

Ex db op is IIB T6 Gb - Ex tb op is IIC T85°C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

LED LIGHTING FIXTURES

LED
Lighting Fixtures



EXEL-L SERIES

EXEL-L series increased safety lighting fixtures for LEDs 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' method of protection. It's equipped with LED tubes sealed in a transparent resin. 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 ensuring excellent protection against dust and water.

- Body in antistatic GRP (glass reinforced polyester).
- VØ (UL 94) guaranteed self-extinguishing and UV resistant.
- Screws and accessories in stainless steel AISI 316L.
- Standard power supply 220/240V 50/60Hz.

Group II, Category 2GD

Ex de mb op is IIC T5/T6 Gb - Ex tb IIC T64°C/T49°C Db IP 66

Zone 1-2-21-22

GRP

'Ex op is'
safe optical radiation

LIGHTING FIXTURES FOR FLUORESCENT TUBES



EXEL, EXEN SERIES

EXEL and EXEN series fluorescent lighting fixtures have a great mechanical strength and they can be installed in hazardous areas where a high protection against corrosion, dust, water and humidity is required. They have an high reliability thanks to the EOL Protected system which allows the fluorescent tube to exhaust and shut down safely and securely.

Thanks to the dual-channel electronic ballast, if one of the two tubes fails, the other continues to operate independently.

- Opening and closing slide system controlled by an hexagonal wrench.
- Body in black antistatic polyester resin reinforced with fiberglass shock and UV resistant. Diffuser in transparent polycarbonate, shock and UV resistant.
- Loop-in/Loop-out connection on both sides.
- Suitable for fluorescent tubes up to 2 x 36W.

EXEL series

Group II, Category 2GD

Ex de IIC T4 Gb

Ex de mb IIC T4 Gb

Ex tb IIC T70°C Db

IP66

Zone 1-2-21-22

EXEN series

Group II, Category 3GD

Ex nA II T4/T5 - Ex tD A22

Group II, Category 3D

Ex tD A22

IP 66

Zone 2-22

Antistatic glass reinforced polyester

STAINLESS STEEL LIGHTING FIXTURES FOR FLUORESCENT TUBES



VIXLU SERIES

VIXLU series increased safety lighting fixtures feature a body in AISI 304 stainless steel (AISI 316L upon request) and a tempered shock- and high temperature-resistant glass diffuser.

This particular construction makes them particularly suitable for applications requiring greater protection against chemically aggressive environments or with high risk of mechanical shock.

- Flat glass anti-light pollution.
- Stainless steel locking.
- EOL protected system.
- Up to 2 x 36W fluorescent tubes.

VIXLU series
Group II, Category 2GD
Ex e mb IIC T4 Gb
Ex tb IIIC T70°C Db
AISI 304

IP66

Zone 1-2-21-22

LIGHTING FIXTURES FOR FLUORESCENT TUBES AND LED STRIPS



LED

Lighting Fixtures

AVN, EXEN-C, EXEN-CL SERIES

AVN and EXEN-C/EXEN-CL series lighting fixtures provide mechanical properties that ensure reliability and safety. They feature a body in polyester resin reinforced with glass fiber and a diffuser in transparent polycarbonate for T8 fluorescent or LED tubes.

- AVN series: stainless steel clips operable without tools, EOL Protected system, suitable for fluorescent tubes up to 2 x 58W.

- EXEN-C/EXEN-CL series: opening and closing slide system controlled by a hexagonal wrench, loop-in/loop-out connection, suitable for fluorescent tubes and LED.

AVN series
Group II, Category 3GD
Ex nA II T4/T5 - Ex tD A22
Group II, Category 3D
Ex tD A22 T4/T5
Group II, Category 2D
Ex tD A21 T4/T5 IP65
Zone 2-21-22

EXEN-C
Ex nA IIC T... Gc - Ex tc IIIC T... °C Dc
Ex tb IIIC T... °C Db
EXEN-CL
Ex nA IIC T... Gc - Ex tc IIIC T... °C Dc
Ex tb op is IIIC T... °C Db IP66
Zone 2-22

Antistatic glass reinforced polyester

LED FLOODLIGHTS



LED

Lighting Fixtures

SLED SERIES

SLED series floodlights with LED technology combine lightweight, compact design and high performance in terms of reliability, safety, efficiency and energy saving. They are characterized by LEDs with optics "square shaped beam" that permits a light distribution and a perfectly uniform lighting in every direction. The finned body of the floodlight acts as a heat sink for the LED plate, allowing the installation of greater light output without incurring the deterioration of the LEDs.

- High luminous output and white light
- Colour rendering index > 70
- Standard power supply 120-277V 50Hz.
- Frontal tempered glass.
- Galvanized steel adjustable bracket
- Three sizes available: SLED-250, SLED-400, SLED-600

Group II, Category 2GD

Ex de mb IIB+H2 T5/T6 Gb - Ex tb IIIC T100°C T85°C Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

VERTICAL RECTANGULAR FLOODLIGHTS



SLFE SERIES

SLFE series floodlights are designed to ensure a symmetrical distribution and a light power in all those areas that require an intense and concentrated stream of light. Their rectangular shape makes them unique and innovative in the design for their maintenance function; in fact, through a side access, it's possible to replace the bulb without removing the front glass.

The electrical connection to the floodlight is made through a terminal inserted into an "Ex e" enclosure which allows the entry by a cable gland with an "Ex" sealing ring (no barrier).

- Flat glass anti-light pollution.
- Reinforced steel bracket for moving structures upon request.
- Suitable for lamps up to 600W.

Group II, Category 2GD

Ex de IIB T2/T3 - Ex tD A21

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

OBSTRUCTION LIGHTING FIXTURES



XLI, XLF 1-2 SERIES

XLI and XLF 1-2 series lighting fixtures are ideal for installation on towers and high buildings as obstruction signal with a fixed light (XLI) or with a flashing light (XLF 1-2). Their mechanical strength combined with the functionality and security make them durable even in the presence of salt atmosphere and industrial pollutions.

- Possibility of double lighting fixture wired and sealed to the junction box.
- Different colors available.
- XLI series is suitable for lamps up to 100W.
- XLF 1-2 series is suitable for lamps up to 16 Joule.

Group II, Category 2GD

XLI series

Ex d IIC T.. Gb - Ex tb IIIC T.. °C Db

IP66

XLF 1-2 series

Ex d IIC T..Gb- Ex tb IIIC T... Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

EMERGENCY SIGNALLING LIGHTING FIXTURES FOR FLUORESCENT TUBES



EVF-18EX SERIES

Emergency lighting fixtures EVF-18EX series are designed for high performance emergency lighting in areas with little overhead room especially near emergency exits or escape routes. EVF-18 EX series is equipped with an electronic ballast for 8W fluorescent lamps.

- Two-color LED (green/red) which monitors batteries operation, warning the user in case of failure.
- They may be supplied with warning signs.
- Suitable for fluorescent tube up to 1 x 8W.

Group II, Category 2GD

Ex d IIC T5 - Ex tD A21

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

LED TRAFFIC LIGHTS



LED
Lighting Fixtures

CCA-02E/S...LD SERIES

CCA-02E/S...LD traffic light system, is able to achieve optimum light efficiency immediately power response times and very low energy consumption thanks to the LED technology. The traffic light is suitable for the traffic regulation in chemical aggressive industrial environments or potentially hazardous areas, including marine one.

- One, two or three signalers and combinations of colors like green, yellow and red.
- Estimated lifespan of 50.000 hours.
- 4 LEDs installed on a plate (if one or more of the LEDs fails, the lamp keeps on working).
- 6W LED plate.

Group II, Category 2GD

Ex d IIC T6 Gb - Ex tb IIIC T... Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy

FLUORESCENT AND LED HAND LAMPS



LED
Lighting Fixtures

L, FHL, LHL-P SERIES

Hand lamps are suitable to be used for inspection, operation and plant maintenance. L-5, L-5R series have a light sensor for saving energy and batteries level information. They can be mounted on fire helmets. L-3000 series has 2 LEDs of 135 lumens each in a double optic with different light beams and LedEngine technology with a step light system. FHL series hand lamps are suitable for compact fluorescent tubes of 24/36 W whereas LHL...P series for LED tubes of 9/17 W. Thanks to their special construction, robust and easy to handle, they provide excellent performance in any position and ambient temperature.

- L-3000: swiveling head with 3 positions 0° | 45° | 90°.
- FHL series: built-in electronic ballast, power supply 24 V dc.
- LHL...P: light color temperature around 5500 K, 72 LEDs, lifespan > 50.000 hours, stainless steel hook and 5m cable.

L-5, L-5R, L-5S SERIES

Group II, Category 1GD

Ex ia IIC T4 Ga - Ex ia IIIC T85° Da

L-3000 SERIES

Group II, Category 1GD/1D

Ex ia IIC T4 Ga | Ex ia IIIC

T85° Da

IP67

Zone 0-1-2-21-22

Thermoplastic resin

FHL

Group II, Category 2GD

Ex d IIC T6 Gb; Ex tb IIIC T85°C Db

Aluminium alloy

LHL-P

Group 2, Category 2G

Ex mb IIIC T95°C/T130°C (Db)

Ex mb IIIC T95°C/T130°C (Db)

Polycarbonate and PVC

IP66

Zone 1-2-21-22

HORIZONTAL RECTANGULAR FLOODLIGHTS



SLEE SERIES

SLEE series floodlights are suitable for installation in environments where hydrogen (H₂) is present. They are certified with a high degree of mechanical protection (IP67) and they provide a symmetrical and concentrated distribution of the luminous flux.

The electrical connection to the floodlight is made through a terminal inserted into an "Ex e" enclosure which allows the entry by a cable gland with an "Ex" sealing ring (no barrier).

- Flat glass anti-light pollution.
- Reinforced steel bracket for moving structures upon request.
- Suitable for lamps up to 400W.

Group II, Category 2GD

Ex de IIB + H₂ T2/T3/T4 - Ex tD A21

IP66/67

Zone 1-2-21-22

Low copper content aluminium alloy

RECTANGULAR FLOODLIGHTS



TIGER SERIES

These floodlights are ideal for lighting large areas, if equipped with symmetrical reflector, or for a selective concentration of light on specific areas when equipped with asymmetric reflector. The high degree of protection IP66 combined with an optimum efficiency at low (-50° C) and high (+60° C) temperatures, make TIGER floodlights suitable for the use in all environments where climatic conditions are extreme.

- Fast maintenance.
- Simple wiring thanks to the use of marked terminals.
- Anti-corrosion aluminium clips.
- Flat glass anti-light pollution.
- Suitable for lamps up to 400W.

Group II, Category 3GD

Ex nR II T2/T3 - Ex tD A22

IP66

Zone 2-22

Die-cast aluminium

LED LIGHTING FIXTURES FOR SAFETY WARNINGS



LED
Lighting Fixtures

CCA-03EX SERIES

CCA-03EX series LED lighting fixtures for safety warnings are designed for installation in areas with risk of explosion where lighting may be stopped due to abnormal, unusual or accidental situations. The new CCA-03EX lighting fixture can be installed in indoor and outdoor environments and it can operate both in normal and emergency service, with a maximum duration of about 2 hours. In case of interruption of the supply voltage, electronics automatically turn on the lighting fixture.

- Simple wiring, two threaded hubs studied for the through-wiring.
- Compact size, two directional LED spotlights.
- LED COB (Chip on Board: high performance in terms of lumens, low maintenance costs and long life.
- Color temperature 3.500°C, 595 lm for each LED.

Group II, Category 2GD

Ex d IIC T6 Gb - Ex tb IIIC T85°C Db IP66

Zone 1-2-21-22

Low copper content aluminium alloy

LED OBSTRUCTION LIGHTING FIXTURES

LED
Lighting Fixtures



XLFE-MIB, XLFE-4/1 SERIES

XLFE-MIB and XLFE-4/1 obstruction lighting fixtures are suitable for installation on towers or high buildings as obstruction signal thanks to light signals emitted by LEDs of high power and luminous efficiency. The use of LED technology provides low power consumption, long life (approx. 50.000 hours) and, consequently, a reduction in maintenance costs.

- Lighting fixtures in red color complies with ICAO Standard (International Civil Aviation Organization).
- 2000 candles for medium intensity XLFE-MIB and 32 candles for low intensity XLFE-4/1 obstruction lighting fixtures.
- Different colors available.

Group II, Category 2GD

XLFE-MIB
II 2GD Ex db eb op is IIC T4 Gb; Ex tb op is IIIC T110°C Db IP66

XLFE-4/1
Ex de IIC T6 Gb; Ex tb IIIC T.. Db

IP66

Zone 1-2-21-22

Low copper content aluminium alloy