# TECHNICAL DATASHEET

## Explosionproof LED luminaire
## ACQUEX LED

50,000 h product life

5 YEARS warranty

IP 66 | IK 08

Frequency 0–50/60Hz | Rated voltage 220–240V

650°C | SELV

UV | +40°C / -20°C

ACQUEX LED-M 1x1.2 ET PC Inox

### General characteristics

- Designed to be used in hazardous areas where an explosive atmosphere persists for a short period as standard illumination or as emergency illuminartion.
- Housing in compressed glass fiber reinforced polyester in in yellow (RAL 1003) integrating two gear tray holders to allow suspension to carry out its connection to the mains. Polyurethane gasket to obtain IP66 rating.
- Stainless steel clips (INOX).
- Transparent diffuser in polycarbonate (PC), with UV protection, manufactured in injection with prismatic design for an optimum light distribution.
- Polyamide ATEX cable gland M20x1.5 IP68.
- ACQUEX LED is perfectly suitable for use in EX-Zones according to ATEX directive 2014/34/EU:

Ex II 3 G Ex nA IIC T6 Gc

Ex II 3 D Ex t IIIC T85 °C Dc IP66

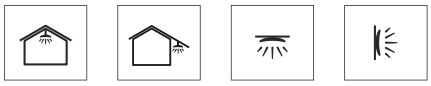
### Applications recommendation

- Oil and gas sites
- Pharmaceutical
- Chemical industry
- Food and agricultural industry
- Industrial facilities

### Approvals and markings

CE D Ex **HACCP RoHS**

### Mounting possibilities



### Mounting accessories

- Stainless steel fixing brackets included.

### Product Options

- Emergency kit 3h

### Accessories

10115832 Brass nickel plated ATEX cable gland M20x1.5

# Weatherproof LED luminaire
# ACQUEX LED

## Functional characteristics

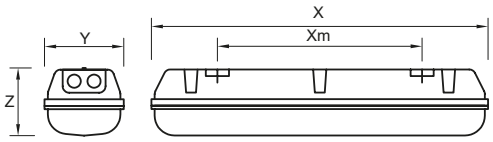
- The long life time of the LEDS decreases maintenance costs.
- LED technology integrates low power consumption for greater efficiency, intelligent lighting management through a high frequency sensor, quick and easy installation thanks to plug and play system.
- Extremely safe, with a robust design with a vibration-free components directly reusable without starting time to low ambient temperatures down to -25 ° C.

## General technical data

| | |
|---|---|
| Rated voltage range | 220V–240V |
| Rated frequency | 0-50Hz/60Hz |
| Protection class | Class I |
| Protection rating | IP66 |
| Impact resistance | IK08 PC Diffuser |
| UV protection | Diffuser and body with UV protection |
| Fire protection | GRP: Flammability (UL94): HB, Glow wire test (EN 60695-2-11): 650°C<br>PC: Flammability (UL94): V2, Glow wire test(EN 60695-2-11): 850°C |
| THD | < 10% |
| Chemical agents resistence | See appendix |
| Color Rendering Index (CRI) | > 80 |
| Type of control gear | Electronic transformer, switchable |
| Connection method | Terminal block and cable gland |

## Operating data | Dimensions

| Designation | Specialfeatures | Luminous Flux | Efficiency | Connection load | Color Temperature | X | Xm | Y | Z |
|---|---|---|---|---|---|---|---|---|---|
| | | lm | lm/W | W | K | mm | mm | mm | mm |
| ACQUEX LED-M 1x0.6 ET PC Inox | | 2200 | 100 | 22 | 4000 | 665 | 390 | 145 | 101 |
| ACQUEX LED-M 1x1.2 ET PC Inox | | 4800 | 120 | 40 | 4000 | 1282 | 800 | 145 | 101 |
| ACQUEX LED-M 1x1.5 ET PC Inox | | 5800 | 119 | 49 | 4000 | 1578 | 1100 | 145 | 101 |
| ACQUEX LED-M 1200 ET EB3 PC Inox | Emergency battery 3h | 4800 | 120 | 40 | 4000 | 1282 | 800 | 145 | 101 |
| ACQUEX LED-M 1500 ET EB3 PC Inox | Emergency battery 3h | 5800 | 119 | 49 | 4000 | 1578 | 1100 | 145 | 101 |



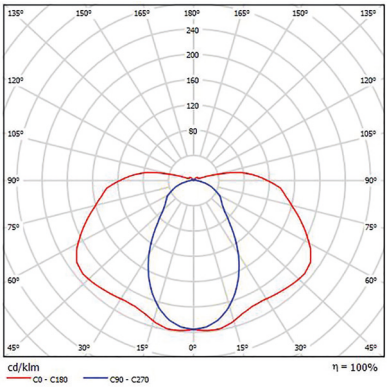

## Logistical data

| Designation | Order Number | L x W x H mm | Pcs./Box | Box | Groupage Pcs./Euro palett | Double pallet Pcs./Euro palett |
|---|---|---|---|---|---|---|
| ACQUEX LED-M 1x0.6 ET PC Inox | 10121627 | 675 x 151 x 105 | 1 | 2.0 | 150 | 90+90 |
| ACQUEX LED-M 1x1.2 ET PC Inox | 10121628 | 1289 x 151 x 105 | 1 | 3.3 | 75 | 45+45 |
| ACQUEX LED-M 1x1.5 ET PC Inox | 10121629 | 1589 x 151 x 105 | 1 | 4.0 | 75 | 45+45 |
| ACQUEX LED-M 1200 ET EB3 PC Inox | 10121630 | 1289 x 151 x 105 | 1 | 3.5 | 75 | 45+45 |
| ACQUEX LED-M 1500 ET EB3 PC Inox | 10121631 | 1589 x 151 x 105 | 1 | 4.2 | 75 | 45+45 |

For logistic estimations please contact our sales backoffice team

# Weatherproof LED luminaire
# ACQUEX LED

## Light characteristic




ACQUEX LED-M 1x1.5 ET PC Inox
Other models similar distribution with different intensities

## Product life

| Tª Range | L Value | Lifetime |
|---|---|---|
| 25ºC | L80 | 50,000 h |

## Conformity to standards

**Electrical equipment designed to be used with certain voltage limitations**

| | |
|---|---|
| EN 60598-1 | Luminaires - Part 1: General requirements and tests |
| EN 60598-2-1 | Luminaires - Part 2: Particualr requirements. Section 1: General purpose luminaires |

**Electromagnetic compatibility**

| | |
|---|---|
| EN 55015 | Limits and methods of measurement of radio disturbance characteristics of electric lighting and similar equipment. Characteristics of electric lighting and similar equipment |
| EN 61000-3-2 | Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions |
| EN 61000-3-3 | Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems |
| EN 61547 | Equipment for general lighting purposes EMC immunity requirements |
| EN 62471 | Photobiological safety of lamps and lamp system |
| EN 62493 | Assessment of lighting equipment related to human exposure to electromagnetic fields |

# APPENDIX

| Chemical Agents | Polyester | Polycarbonate | Aluminium | PMMA | Stainless steel |
|---|---|---|---|---|---|
| Acetic acid 10% | ✓ | ✓ | ✓ | ✓ | ✓ |
| Acetone | ø | x | ✓ | x | ✓ |
| Alcoholic beverages | ✓ | ✓ | ✓ | ø | ✓ |
| Aluminium sulphate | ✓ | ✓ | ✓ | ✓ | ø |
| Ammonia 5% | ø | x | ✓ | ✓ | ✓ |
| Aniline | ø | x | ✓ | x | ✓ |
| Arsenic acid 20% | ø | ✓ | ✓ | ✓ | ✓ |
| Benzene | x | x | ✓ | x | ø |
| Bencylic alcohol | x | x | ø | x | ø |
| Bromine | x | x | x | x | x |
| Calcium Chloride | ✓ | ✓ | ✓ | ✓ | ø |
| Calcium nitrate | ✓ | ✓ | ✓ | ✓ | ø |
| Carbon tetrachloride | x | x | ✓ | x | ø |
| Carbonic acid | ✓ | x | ✓ | x | ✓ |
| Caustic potash 5% | x | x | x | ✓ | ø |
| Cement | ✓ | ✓ | ✓ | ✓ | ø |
| Hydrochloric acid 1-5% | ø | ✓ | x | ✓ | x |
| Chlorine liquids (vapours) | x | x | x | x | ø |
| Chloroform | x | x | ✓ | x | ✓ |
| Chromic acid | x | ø | x | ø | ø |
| Citric acid 20% | ✓ | ✓ | ✓ | ✓ | ø |
| Copper sulphate | ✓ | ✓ | x | ✓ | ø |
| Diesel-naphta oil | ✓ | ø | ✓ | ✓ | ✓ |
| Ethyl alcohol 30% | ✓ | ✓ | ✓ | ø | ✓ |
| Ethyl chloride | x | x | ø | x | ✓ |
| Ethyl ether | ✓ | x | ✓ | x | ø |
| Food oils and fats | ✓ | x | ✓ | ✓ | ✓ |
| Formic acid 10% | ø | ✓ | x | ✓ | ø |
| Glycerine | ✓ | ✓ | ✓ | ✓ | ✓ |
| Hexane | ø | ✓ | ✓ | ✓ | ✓ |
| Iodine | ✓ | x | ø | ✓ | x |
| Isopropylic alcohol | ✓ | ø | ✓ | ø | ø |
| Lubricating oil | ✓ | ✓ | ✓ | ✓ | ✓ |
| Magnesium sulphate | ✓ | ✓ | ✓ | ✓ | ✓ |
| Methanol | ✓ | x | ✓ | ø | ✓ |
| Mineral oils | ✓ | ✓ | ✓ | ✓ | ✓ |
| Nitric acid 20% | x | ø | x | ✓ | ✓ |
| Oxygen | ✓ | ✓ | ✓ | ✓ | ✓ |
| Ozone | ✓ | ✓ | ✓ | ✓ | ø |
| Perchloric acid 10% | x | ✓ | x | ✓ | x |
| Petrol | ✓ | x | ✓ | ✓ | ✓ |
| Phenol | ø | x | ✓ | x | ø |
| Pothassium bromide | ✓ | ✓ | ø | ✓ | ø |
| Pothassium nitrate | ✓ | ✓ | ✓ | ✓ | ø |
| Pothassium permanganate | ✓ | ✓ | ✓ | ✓ | ø |
| Sea climate | ✓ | ✓ | ø | ✓ | ø |
| Silicon oils | ✓ | ✓ | ✓ | ø | ✓ |
| Soda bleach 15% | ✓ | x | ø | ✓ | ø |
| Sodium chloride | ✓ | ✓ | ø | ✓ | ø |
| Sodium hydroxide 5% | ✓ | x | x | ✓ | ø |
| Sodium sulphate | ✓ | ✓ | ✓ | ✓ | ø |
| Sugar | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sulphur | ✓ | ✓ | ✓ | ✓ | ø |
| Sulphuric acid 30% | x | ✓ | x | ✓ | x |
| Toluene | x | x | ✓ | x | ✓ |
| Trichloroethylene | x | x | ✓ | x | ø |
| Zinc sulphate | ✓ | ✓ | ø | ✓ | ø |

✓ Resistant ø Relatively resistant x Non-resistant

**ZALUX, S.A.** · Avda. Manuel Rodríguez Ayuso, 114 · Centro Empresarial Miralbueno · Planta 1ª – Local P2 · E-50012 ZARAGOZA · Spain
Phone: +34 976 462 200 · Fax: +34 976 774 061 · info@zalux.com · www.zalux.com

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