

Explosionproof LED Luminaire KRATEX LED

50,000 h product life
Zone 1 and 21

5 YEARS
warranty

| | |
|------------------------|---------------------------|
| IP 66 | IK 10 IK 07 |
| Frequency 0-50/60Hz | Rated voltage 220-240V |
| 850°C | NON-SELV |
| UV | +40°C -20°C |



KRATEX NS HE 600 2000-840 ET GLASS

General characteristics

- LED Luminaire manufactured with high quality materials that guarantee long product life.
- Explosion protection is a delicate and complex issue. Human lives may depend on it. Zalux offers you reliable explosione protected lighting equipped with state of the art LED technology. Designed to be used in hazardous areas where an explosive atmosphere persists for a short period as standard illumination or as emergency illumination.
- 2 Entries of 3/4" NPT for cable gland (not included).
- Gasket NBR.
- Diffuser tube made of UV resistant polycarbonate or 3.3 borosilicate glass.
- Ends of the housing made of aluminium alloy with yellow polyurethane finish (RAL 1003)
- KRATEX LED is perfectly suitable for use in EX-Zones according to ATEX directive 2014/34/EU

II 2 G Ex db IIC T6 Gb

II 2 D Ex tb IIIC T85 Db

Accessories (optional)

Fixing accessories (choose between):

- 10078101 Eye bolts bag
10078102 Fixing omegas

Cable gland (optional)

- 10078103 Single cable gland
10078104 Double cable gland

Applications recommendation

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

Mounting possibilities



Product Options

- Emergency kit: Permanent, non-permanent or combined



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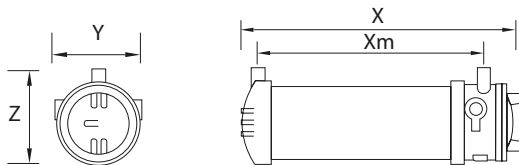
General technical data

| | |
|--|---|
| Rated voltage range | 220V-240V |
| Rated frequency | 0-50Hz/60Hz |
| Class | I |
| Protection rating | IP66 |
| Impact resistance | IK10 PC / IK07 Borosilicate glass |
| UV protection | Diffuser tube with UV protection |
| Fire protection: Flammability (UL94) | PC: V2 |
| Fire protection: Glow wire test (EN 60695-2-11): | PC: 850 °C / Borosilicate glass: 850 °C |
| THD | < 10% |
| Chemical agents resistance | See appendix |
| CRI protection class | > 80 |
| Useful Life | L80, 50000 h |

Operating data | Dimensions

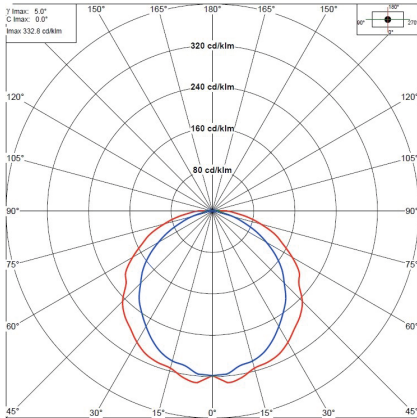
| Designation | Special features | Luminous Flux | Emergency operation | Efficiency | Connection load | Color Temperature | X | Xm | Y | Z |
|---|----------------------|---------------|---------------------|------------|-----------------|-------------------|------|------|-----|-----|
| | | lm | lm | lm/W | W | K | mm | mm | mm | mm |
| KRATEX NS HE 600 2000-840 ET PC | | 2500 | — | 113 | 22 | 4000 | 750 | 640 | 157 | 197 |
| KRATEX NS HE 600 2000-840 ET GLASS | | 2500 | — | 113 | 22 | 4000 | 750 | 640 | 157 | 197 |
| KRATEX NS HE 600 2000-840 ET PC EB1 | Emergency battery 1h | NM* | 750 | — | 4 | 4000 | 750 | 640 | 157 | 197 |
| KRATEX NS HE 600 2000-840 ET GLASS EB1 | Emergency battery 1h | NM* | 850 | — | 4 | 4000 | 750 | 640 | 157 | 197 |
| KRATEX NS HE 600 2000-840 ET PC EB3 | Emergency battery 3h | NM* | 750 | — | 5 | 4000 | 750 | 640 | 157 | 197 |
| KRATEX NS HE 600 2000-840 ET GLASS EB3 | Emergency battery 3h | NM* | 850 | — | 5 | 4000 | 750 | 640 | 157 | 197 |
| KRATEX NS HE 1200 4000-840 ET PC | | 4900 | — | 122 | 40 | 4000 | 1360 | 1250 | 157 | 197 |
| KRATEX NS HE 1200 4000-840 ET GLASS | | 5000 | — | 125 | 40 | 4000 | 1360 | 1250 | 157 | 197 |
| KRATEX NS HE 1200 4000-840 ET PC EB1 | Emergency battery 1h | 4250 | 800 | 96 | 44 | 4000 | 1360 | 1250 | 157 | 197 |
| KRATEX NS HE 1200 4000-840 ET GLASS EB1 | Emergency battery 1h | 5000 | 850 | 113 | 44 | 4000 | 1360 | 1250 | 157 | 197 |
| KRATEX NS HE 1200 4000-840 ET PC EB3 | Emergency battery 3h | 4250 | 800 | 94 | 45 | 4000 | 1360 | 1250 | 157 | 197 |
| KRATEX NS HE 1200 4000-840 ET GLASS EB3 | Emergency battery 3h | 5000 | 850 | 110 | 45 | 4000 | 1360 | 1250 | 157 | 197 |

*NM: Non-maintained mode



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Light characteristic



KRATEX NS HE 600 2000-840 ET PC

Other models similar distribution with different intensities

Logistical data

| Designation | Order Number |  L x W x H mm |  Pcs./Box |  Box |  Groupage Pcs./Euro palett |  Double pallet Pcs./Euro palett |
|---|--------------|--|--|---|--|---|
| KRATEX NS HE 600 2000-840 ET PC | 10169101 | 780 x 240 x 180 | 1 | 8.5 | 56 | 40+40 |
| KRATEX NS HE 600 2000-840 ET GLASS | 10169102 | 780 x 240 x 180 | 1 | 9.5 | 56 | 40+40 |
| KRATEX NS HE 600 2000-840 ET PC EB1 | 10169103 | 780 x 240 x 180 | 1 | 9.0 | 56 | 40+40 |
| KRATEX NS HE 600 2000-840 ET GLASS EB1 | 10169104 | 780 x 240 x 180 | 1 | 10.0 | 56 | 40+40 |
| KRATEX NS HE 600 2000-840 ET PC EB3 | 10169105 | 780 x 240 x 180 | 1 | 9.5 | 56 | 40+40 |
| KRATEX NS HE 600 2000-840 ET GLASS EB3 | 10169106 | 780 x 240 x 180 | 1 | 10.6 | 56 | 40+40 |
| KRATEX NS HE 1200 4000-840 ET PC | 10169107 | 1390 x 240 x 180 | 1 | 15.9 | 28 | 20+20 |
| KRATEX NS HE 1200 4000-840 ET GLASS | 10169108 | 1390 x 240 x 180 | 1 | 17.3 | 28 | 20+20 |
| KRATEX NS HE 1200 4000-840 ET PC EB1 | 10169109 | 1390 x 240 x 180 | 1 | 16.2 | 28 | 20+20 |
| KRATEX NS HE 1200 4000-840 ET GLASS EB1 | 10169110 | 1390 x 240 x 180 | 1 | 17.6 | 28 | 20+20 |
| KRATEX NS HE 1200 4000-840 ET PC EB3 | 10169111 | 1390 x 240 x 180 | 1 | 16.8 | 28 | 20+20 |
| KRATEX NS HE 1200 4000-840 ET GLASS EB3 | 10169112 | 1390 x 240 x 180 | 1 | 18.2 | 28 | 20+20 |

For logistic estimations please contact our sales backoffice team

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Approvals and markings



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: Particular 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 |



EN 60079-0:20012/A11:2013, EN 60079-1:2014, EN 60079-31:2014
ATEX Directive 2014/34 EU

APPENDIX

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

✓ Resistant ∅ Relatively resistant X Non-resistant