

**VYRTYCH**



# **EXTRA-N-LED-2/21**

**FOR HAZARDOUS AREAS  
ATEX ZONE 2/21, 22**





# **EXTRA-N-LED-2/21**

Made in Europe -  
Czech Republic origin

ATEX certification  
ZONE 2/21

UV stable material

High efficiency up to  
155 lm/W

Luminous flux versions from  
1 250 up to 20 000 lm

Robust housing made of  
high quality polycarbonate  
(RAL7035).

Diffuser made from opal  
polycarbonate for homogenous  
illumination and excellent glare  
limitation.

Wide temperature resistance  
from -20°C to +60°C.

High quality EPDM sealing  
allowing the luminaire to be  
used for indoor and outdoor  
uncovered mounting.



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# TECHNICAL DESCRIPTION

## APPLICATION:

**Robust explosion-proof linear luminaire designed for lighting of hazardous areas ATEX ZONE 2/21, 22. Robust housing made of high quality polycarbonate (RAL7035) with EPDM sealing to allow use in uncovered outdoor areas.**

Diffuser made from opal polycarbonate for homogenous illumination and excellent glare limitation. High quality electronic components guarantee high efficiency up to 155 lm/W and extremely long lifetime 100 000 h.

**The luminaire EXTRA-N-LED features high chemical, splash and dust resistance IP66 as well as high impact strength rating of IK10. It can be operated at temperatures -20°C up to +60°C.**

Stainless steel clips and mounting bracket included as a standard. For surface and suspended mounting.

## DRIVER:

EP – electronic 220 – 240 V, 50/60 Hz,  
220 – 240 V, 0 Hz DC

## LIGHT SOURCE:

LED, 4000 K or 6500 K, CRI +80, MacAdam3

## HOUSING:

Plastic material PC (polycarbonate),  
grey colour RAL 7035 (RAL7035)

## DIFFUSER:

Highly durable opal polycarbonate

## FASTENING:

Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment) or set of wall brackets - angle 45°, pole mounting via set of pole brackets, suspension by means of wire or cable suspenders.

## CONNECTION:

Screwless three-pole terminal block, maximum diameter of wires 2.5 mm<sup>2</sup>.

## STANDARD EQUIPMENT:

1 pc EX plastic cable gland M20x1.5  
(as a standard for diameter of cable 7-12mm),  
1 pc EX plastic plug M20x1.5,  
2 pcs stainless steel fastening bracket - AISI 304,  
stainless clips,  
double cable clip.

## CALCULATED LIFETIME - LED MODULES:

L80B10 Ta30 – 70 000 h

L70B10 Ta30 – 100 000 h

## FTZÚ 24 ATEX 0020X

Ex II 3G Ex nR IIC T6 Gc

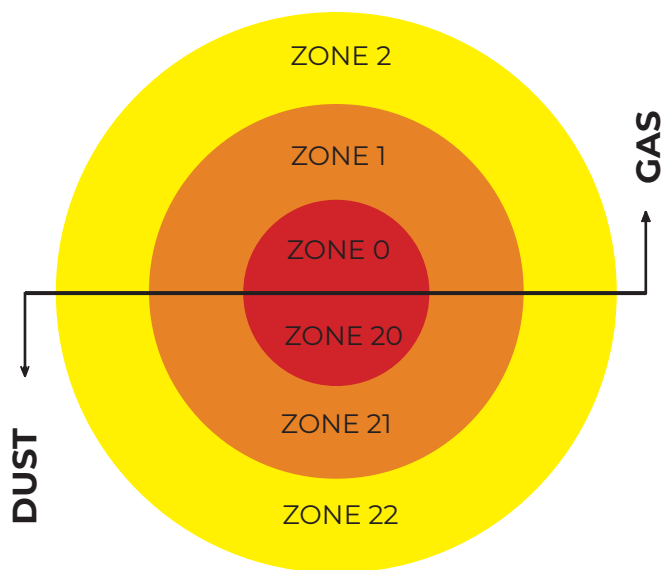
Ex II 2D Ex tb IIIC T80°C Db

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# TYPICAL APPLICATIONS



**EXTRA-N-LED-2/21 is certified for Zone 2 (explosive atmosphere of gases) and Zone 21 (explosive atmosphere of dusts). At the same time, this luminaire is still fully usable in explosive dust zone 22.**

- accidental risk
- occasional risk
- permanent risk

## Top 20 most common areas of use for zone 21

- **GRAIN SILOS AND STORAGE:** Areas where grain dust can accumulate and pose explosion risks.
- **FOOD PROCESSING PLANTS:** Zones where fine powders like flour or sugar are processed.
- **BAKERIES:** Areas with high dust concentrations from flour and other ingredients.
- **TEXTILE MILLS:** Places where fibers and dust are prevalent.
- **WOODWORKING SHOPS:** Workshops with sawdust and fine wood particles.
- **METAL PROCESSING PLANTS:** Areas with metal dust or flammable metalworking fluids.
- **PHARMACEUTICAL WAREHOUSES:** Storage areas for volatile or combustible chemicals (when dealing with dust).
- **PLASTIC MANUFACTURING:** Facilities where plastic dust can accumulate.
- **PAPER MILLS:** Locations where paper dust is generated during production.
- **SUGAR REFINERIES:** Areas where fine sugar dust can pose an explosion hazard.
- **AGRICULTURAL PROCESSING PLANTS:** Facilities where agricultural products are processed, and dust is generated.
- **COAL HANDLING FACILITIES:** Locations where coal dust can accumulate during handling and processing.
- **RECYCLING PLANTS:** Areas where materials like paper, wood, or textiles are processed and dust can be generated.
- **CEMENT PLANTS:** Facilities where fine cement dust can pose an explosion risk.
- **FEED MILLS:** Locations where animal feed is processed and dust from grains or other materials is present.
- **POWDER COATING OPERATIONS:** Areas where fine powder coating materials are applied, and dust can be generated.
- **FERTILIZER PLANTS:** Facilities where powdered fertilizers are manufactured or handled.
- **DAIRY PROCESSING PLANTS:** Areas where powdered milk or other dairy products are processed.
- **TOBACCO PROCESSING PLANTS:** Locations where tobacco dust can accumulate.
- **RUBBER AND TIRE MANUFACTURING:** Areas where fine rubber dust is generated during production processes.