# ROBUSTEX

## MANUFACTURER OF EX-PROOF NORMAL&EMERGENCY TYPE LIGHTING FIXTURES

ATEX

IECEx

www.robustex.com.tr

# RB series Linear LED lighting fixtures with GRP Body & UV Resistant Polycarbonate Diffuser

▶ RB Led is suitable for hazardous areas, both ATEX and IECEx zone 1, 2, 21 and 22. (Emergency Versions Are only Certified By Atex)

▶ RB Led lighting fixtures are achieving IK 10 Protection with a UV Resistant polycarbonate diffuser and corrosion resistant high mechanical GRP Lower body

▶ The luminaire has a hinged geartray for easy access.

▶ Microswitch option which cuts energy for normal operation.

▶ All lighting fixtures are supplied ready for LOOP IN-LOOP OUT type connection.

▶ The use of high-power LED modules provides lumen output ranging from 3125 lm to 13700 lm with high efficiency and guaranteed durability.

▶ Emergency lighting fixture with internal battery for 3 hours(Optional)



## THE PRODUCT GROUPS ARE;

▶ RB 125 LED; 1X25W      ▶ RB 130 LED; 2X30W

▶ RB 230 LED; 2X30W      ▶ RB 150 LED; 1X50W

▶ RB 225 LED; 2X25W      ▶ RB 250 LED; 2X50W

▶ RB 130 LED; 1X30W      ▶ RB 230 LED; 2X30W

1/2/3 Hours emergency versions are also available.

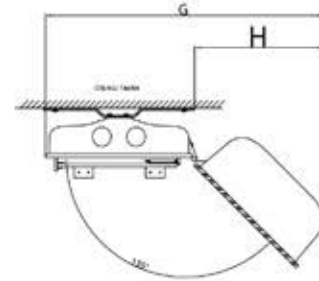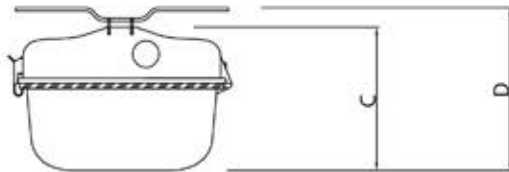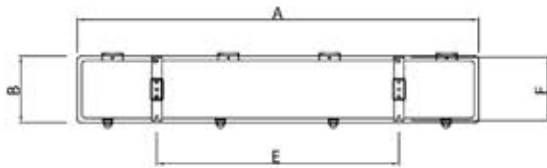*There is always microswitch option which cuts of energy while opening a diffusor for inspection or maintenance.

ROBUSTEX

# ROBUSTEX RB LED

## LINEER LED LIGHTING FIXTURES FOR ZONE 1/ZONE 2 HAZARDOUS ATMOSPHERES

| SHORT VERSIONS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TYPE | LAMP (W) | DIMENSIONS (mm) | | | | | | | | COLOR TEMPERATURE (K) | LUMEN (LM) | WEIGHT (Kg) |
| | | A | B | C | D | E | F | G | H | | | |
| RB 125 LED | 1X25 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/6000 | 3125/3445 | 6,5 |
| RB 130 LED | 1X30 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/5700 | 3900 | 7 |
| RB 225 LED | 2X25 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/6000 | 6250/6850 | 7 |
| RB 230 LED | 2X30 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/5700 | 7800 | 7 |
| RB 125 LED EM3H | 1X25 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/6000 | 3125/3445 | 8 |
| RB 130 LED EM2H | 1X30 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/5700 | 3900 | 7,5 |
| RB 225 LED EM3H | 2X25 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/6000 | 6250/6850 | 7,5 |
| RB 230 LED EM2H | 2X30 | 790 | 243 | 145 | 160 | 270 | 223 | 215 | 225 | 4000/5700 | 7800 | 9 |







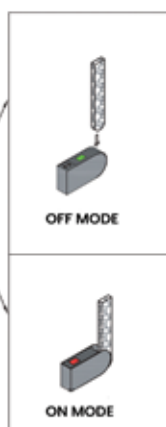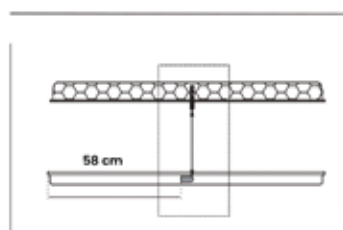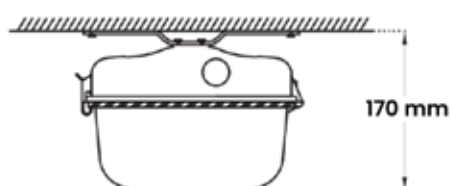| LONG VERSIONS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TYPE | LAMP (W) | DIAMENSIONS (mm) | | | | | | | | COLOR TEMPERATURE (K) | LUMEN (LM) | WEIGHT (Kg) |
| | | A | B | C | D | E | F | G | H | | | |
| RB 150 LED | 1X50 | 1310 | 243 | 145 | 170 | 800 | 223 | 215 | 225 | 4000/6000 | 6250/6890 | 4,5 |
| RB 230 LED | 2X30 | 1310 | 243 | 145 | 170 | 800 | 223 | 215 | 225 | 4000/5700 | 7800 | 11 |
| RB 250 LED | 2X50 | 1310 | 243 | 145 | 170 | 800 | 223 | 215 | 225 | 4000/6000 | 12500/13700 | 11 |
| RB 150 LED EM3H | 1X50 | 1310 | 243 | 145 | 170 | 800 | 223 | 215 | 225 | 4000/6000 | 6250/6890 | 11,5 |
| RB 230 LED EM2H | 2X30 | 1310 | 243 | 145 | 170 | 800 | 223 | 215 | 225 | 4000/5700 | 7800 | 12 |
| RB 250 LED EM3H | 2X50 | 1310 | 243 | 145 | 170 | 800 | 223 | 215 | 225 | 4000/6000 | 12500/13700 | 12,5 |

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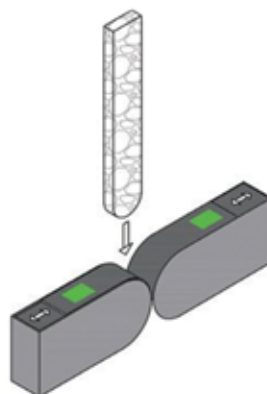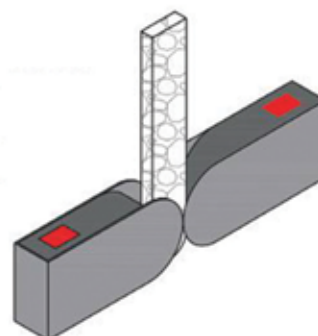| MATERIAL | • Transparent polycarbonate UV protected Diffusor • GRP Lower Body • Stainless steel clips | • Hot dip galvanized mounting brackets • Stainless steel screws • Ex e polyamid cable glands |
|---|---|---|
| **IP, IK RATING** | IP66 – IK 10 | |
| **AMBIENT TEMPERATURE RANGE** | −20 ºC to + 50 ºC | |
| **APPROVAL** | ExVeritas 17 ATEX 0288 X | IECEx: IECEx Exv 17.0029X |
| | ExVeritas 19 ATEX 0449 X | IECEx: IECEX Exv 19.0449X |
| **ATEX MARKINGS** | ⟨Ex⟩ II 2G Ex e mb op is IIC T4 GB & II 2D Ex tb IIIC T135ºC Db (Normal Service) | |
| | ⟨Ex⟩ II 2G Ex db eb mb op ise IIC T4 Gb & II 2D Ex tb IIIC T135ºC Db (Emergency Service) | |
| | Standards compliance IEC/EN 60079-0, 60079-1, 60079-7, 60079-18, 60079-28 and 60079-31 | |
| **ATEX ZONES** | Gas and Dust: zones 1&2, 21 & 22 | |
| **CABLE ENTRIES** | – 1 polyamide cable gland M25 x 1.5 and 1 plug M25 x 1.5 for cable diameters 10 to 18 mm | |
| **POWER** | 1x25w, 2x25w, 1x30w, 2x30w, 1x50w, 2x50w | |
| **DRIVER** | Ex Eb Mb Atex Certified Electronic Driver For Normal Service And Driver with In-Built Inverter For Emergency Service | |
| **VOLTAGE** | 220-240 Vac (normal and emergency service) | |
| **FREQUENCY** | 0/50-60 Hz | |
| **CONNECTION** | Directly to the terminals L,N,PE. There is the through wiring system by 4mm2 cable between terminals and it lets Loop in & Loop out connection | |
| **EMERGENCY VERSIONS** | –Availibility of 60,120,180 Mins of duration with 1x Led Module by %10 Lumen | |
| **ACCESSORIES AVAILABLE** | Wall Mounting and Pole Mounting Kits Are Supplied According To Customer's Request. Ceiling Mounting kits are standart in the carton box | |
| **UPON REQUEST** | Ex-e Microswitch which switches off energy when the diffuser is opened. Ex-e microswitch is standart for emergency versions | |

## ▶ NORMAL SERVICE MODEL

### 1xMICROSWITCH



58 cm

OFF MODE

ON MODE

## ▶ DOUBLE MICROSWITCH SYSTEM FOR EMERGENCY KIT

• **OFF POSITION FOR BALLAST AND BATTERY**

• **ON POSITION FOR BALLAST AND BATTERY**



## ▶ CEILING



170 mm

# ROBUSTEX RB LED

## Optional;

### ▶ Wall Mounting Kit

The wall mounting kit can be customized according to needs.

### ▶ Emergency Type

Our emergency lighting fixtures have 1 hr, 2 hrs , 3 hrs of emergency battery which can supply %10 of the normal type's lux level. Emergecny Type Lighting fixtures are equipped with a mini led indicator on the reflector.
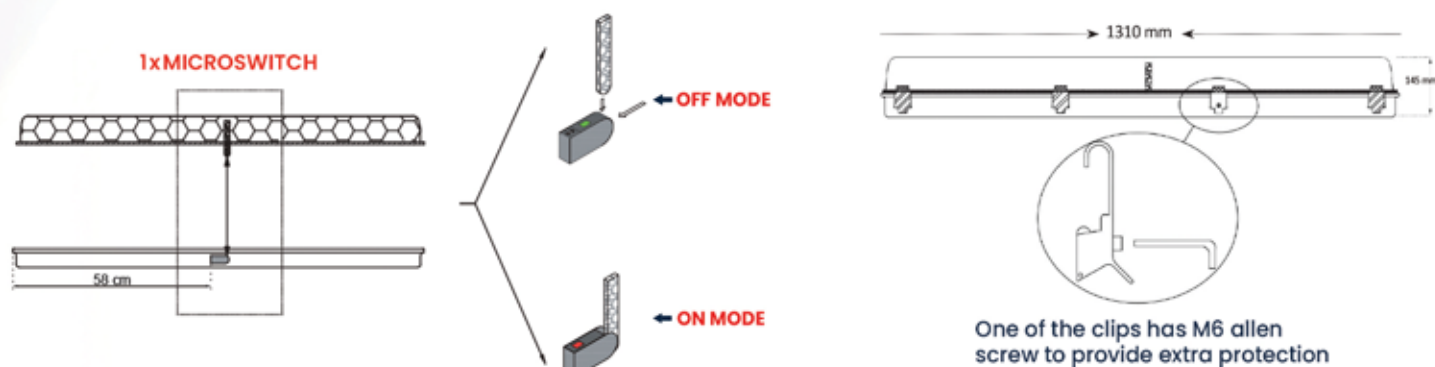
### ▶ Armoured Type Cable Gland

Lighting fixtures are standardly manufactured with 2 x M25 x 1.5 ex-e polyamide cable glands and 1 x M25 x 1.5 ex-e polyamide male plug. Armoured type metal cable glands can be offered upon request.
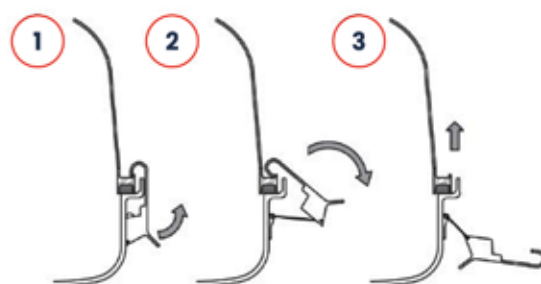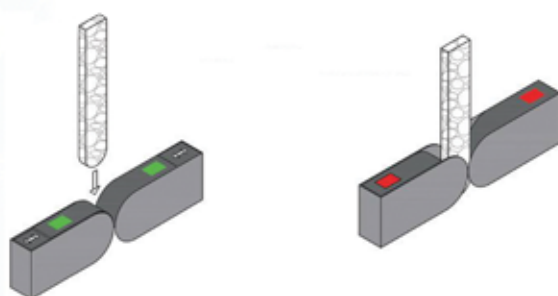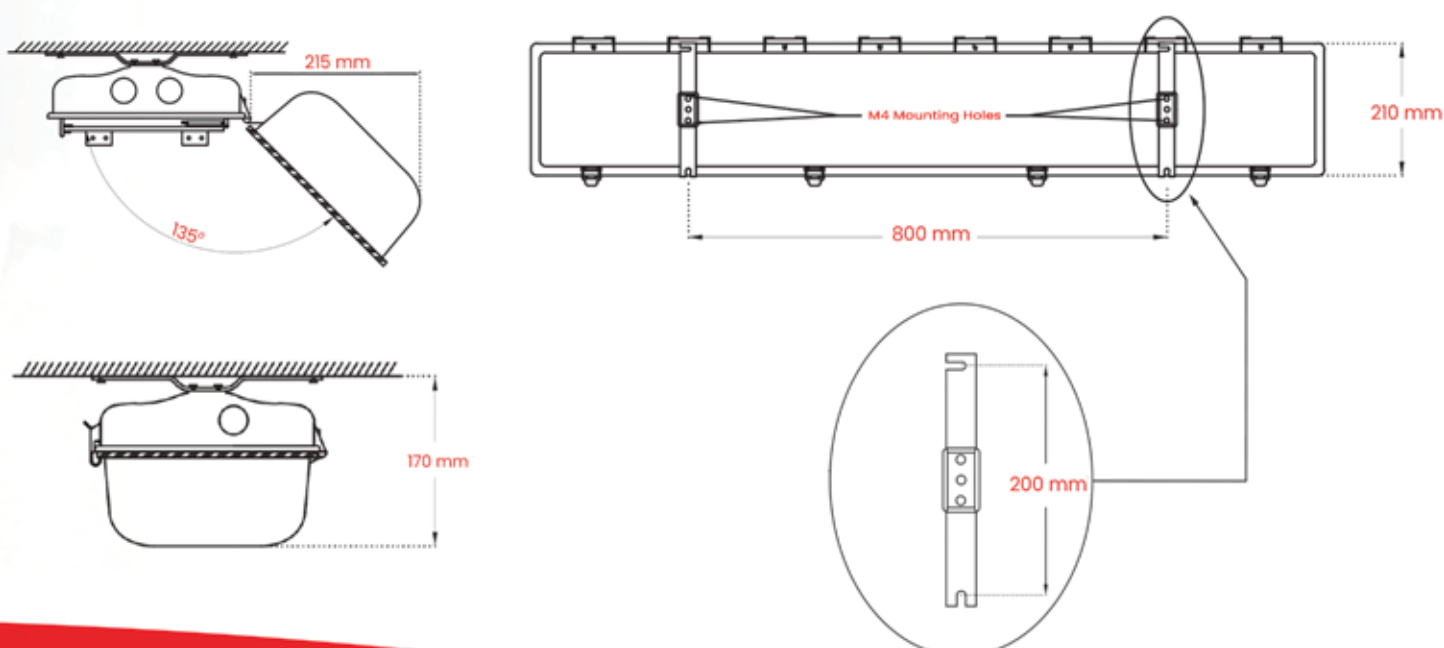
# Optional Microswitch System

▶ **EMERGENCY LUMINAIRE**

**1x MICROSWITCH**

← OFF MODE

← ON MODE

58 cm

1310 mm

145 mm

One of the clips has M6 allen screw to provide extra protection

▶ **DOUBLE MICROSWITCH SYSTEM FOR EMERGENCY KIT**

• OFF POSITION FOR BALLAST AND BATTERY

• ON POSITION FOR BALLAST AND BATTERY

① ② ③

# Hot-Dip Galvanised Mounting Brackets for Ceiling (Standart)

215 mm

135°

170 mm

M4 Mounting Holes

800 mm

210 mm

200 mm

# ROBUSTEX RB LED

## RB 130 LED (1X30W) - RB 225 LED (2X25W) - RB 125 LED (1X25W)
### Emergency Versions Are Available Upon Request

▶ **ISO 80079-34 Quality Standart Which is Applied For Whole Process.**

ISO/IEC 80079-34:2011 specifies particular requirements and information for establishing and maintaining a quality system to manufacture Ex equipment including protective systems in accordance with the Ex certificate.

Robustex is audited by Exveritas Denmark Auditors and inspected for compliance of ISO 80079-34 Regulations on a regular basis. Furthermore, besides being granted for QAN Certificate with ref. Number ExVeritas 16PQAN0017 which also published on Iecex website, Robustex possesses the necessary criteria for EXd and Ex e type production.

▶ **Fastest Delivery Option With Raw Materials Stocks**

Always keeping a reasonable level of raw material and production components stock, Robustex provides the best and fastest solutions to satisfy customers' requests.

▶ **Well organised production which never compromises about discipline & planning**

Thanks to the experience gained in 40 years, Robustex has a strongly structured manufacturing team which consists of qualified engineers and technicians for Ex-proof and Electrical systems. Robustex Manufacturing Team is in close cooperation with Robustex Quality Assurance team who acts professionally in every step to satify ATEX&IECEX Regulations. Teams and machinery within Robustex is proudly growing every each year in parallel with market requirements.

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# ⚙ROBUSTEX

## SECTORS OF APPLICATION
### (ZONE 1 & ZONE 2 HAZARDOUS AREAS)

- OIL&GAS
- CHEMICAL
- PHARMACEUTICAL
- AGRIBUSINESS
- DISTILLATION
- SPRAYBOOTH

**HEAD OFFICE**

Başkent Organize Sanayi Bölgesi
Recep Tayyip Erdoğan Bulvarı No:17
Malıköy/Temelli Ankara/TURKEY
📞 +90 (312) 309 70 35-36
🖨 +90 (312) 324 48 46
✉ info@robustex.com.tr