Durable Lighting Made for Industrial Safety
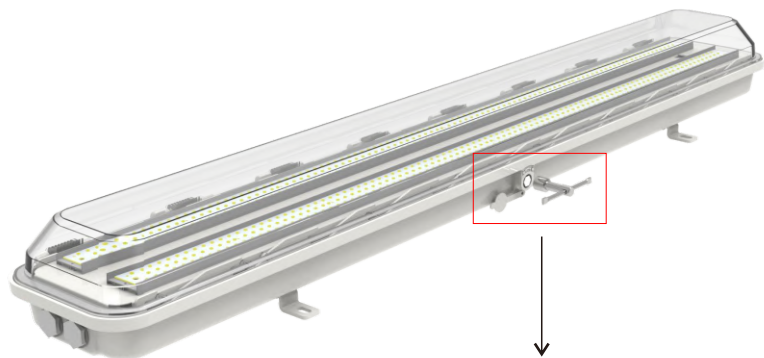
Hazardous Location LED Luminaire

RL Series (Zone 1)

VOCARE
LED LIGHT

RL2

RL4

Interlock Kit

Product Description

The RL series linear vapor tight is designed for use in hazardous locations where flammable gases, vapors, or liquids might be present during normal facility operations. The combination of the style and design of new LED technology with the ruggedness and durability of a hazardous location fixture makes it ideal for retrofit of existing HPS/MH and offers higher efficacy for energy savings, lower maintenance costs and shorter payback. The optional battery backup system provides a minimum of 180 minutes operation after AC power is lost during an emergency.

Features

● UV stabilized, impact-resistant fiberglass reinforced polycarbonate lens

● Available in two and four foot lengths

● Safety interlock kit design

● Light distribution 120 degree

● 0-10V dimming

● Replaceable LED light strip, replaceable driver

● Water-proof, vapor-proof, dust-proof, and corrosion resistant, great reliability

● Eemergency battery back-up optional

Compliance

ATEX Standard:

Ex db eb mb IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db
IP66

IECEx Standard:

Ex db eb mb IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db
IP66

1200 hours salt spray
3G vibration
IK10

Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry

Warranty

2-Year Standard Warranty for Battery Backup
3-Year Standard Warranty for Fixture

50,000-hour LED lifespan based on IES LM-80 results and
TM-21 calculations

Technical Parameter

• Electrical

Specification	EX-**W RL2YZD-**	EX-**W RL4YZD-**
Power in Normal Mode	15W / 20W / 30W	20W / 30W / 35W / 40W / 45W / 50W / 55W
Input Voltage	AC120-277V	AC120-277V
Input Frequency	50/60Hz	50/60Hz
Emergency Function	Optional	Optional
Power in Emergency Mode	10W	10W
Emergency Time	90 minutes	90 minutes
Power Factor	> 0.9	> 0.9
Surge Protection	4kV	4kV
Driver Efficiency	≥90%	≥90%
Dimming	Driver includes dimming control wiring for 0-10V dimming systems Requires separate 0-10V DC dimming circuit	

• Optical

Specification	EX-**W RL2YZD-**	EX-**W RL4YZD-**
Lumen Output (Normal Mode)	1875lm / 2500lm / 3750lm	2500lm / 3750lm / 4375lm / 5000lm / 5625lm / 6250lm / 7000lm
Luminous Efficacy	125 lm/W	125 lm/W
Beam Angle	120°	120°
CCT	4000K/5000K/6000K	4000K/5000K/6000K
CRI	Ra>70	Ra>70

• Mechanical

Specification	EX-**W RL2YZD-**	EX-**W RL4YZD-**
Housing Material	FRP (Fiber Reinforced Plastics)	
Lens Material	Transparent fiberglass-reinforced polycarbonate (standard) Diffuse fiberglass-reinforced polycarbonate (optional)	
Gasket	Silicone Rubber	
Color	Milky White	
Protection	IP66/IK10/3G Vibration/1200hrs salt spray	
Mounting	Ceiling, rope, and pole mount	
Cable entries	Normal Mode/ Emergency Mode: 4 x M20 (Side x1 open, Side x3 with stopping plugs) Note: M25, 3/4" NPT, or M25 can be achieved with an adapter. Customers needs to indicate which is required when placing an order.	

• Environmental

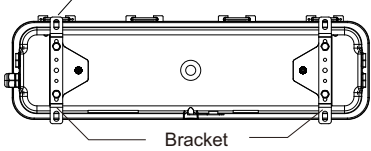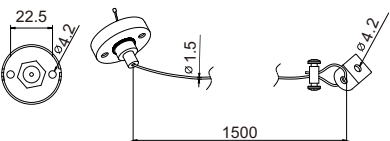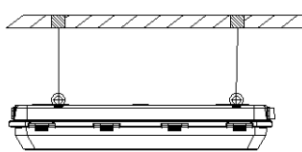| Specification	EX-**W RL2YZD-**	EX-**W RL4YZD-**
Ambient Temperature	Normal Mode: -40°C to +60°C (T6/T80°C) Emergency Mode: 0°C to +40°C (T6/T80°C)	

Product Dimensions

RL2

206.5mm

535mm

711mm

This is a backup inlet of wire. It is not accessible. It needs to be customized if customers want it to be opened.

195.5mm

RL4

206.5mm

800mm

1311mm

140.5mm
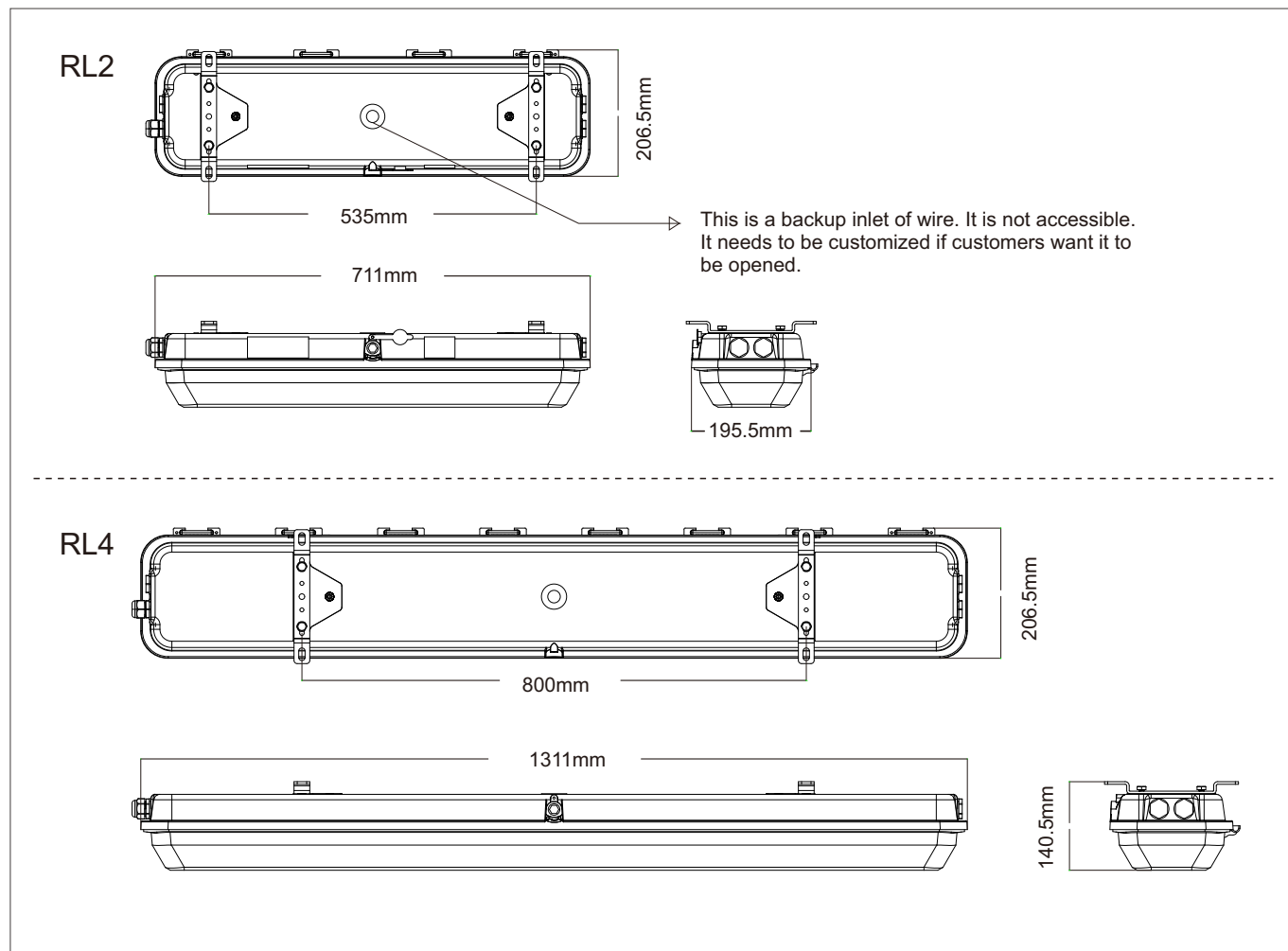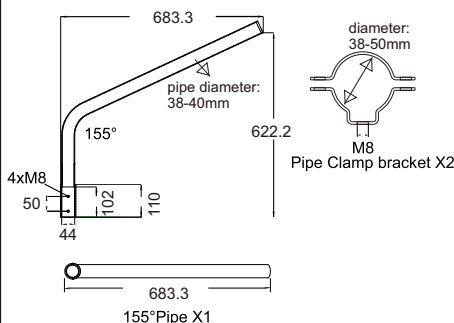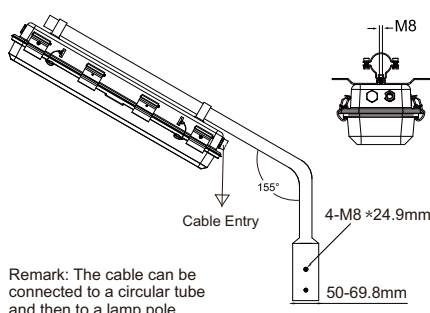
● Packing Information

Model	Net Weight	Gross Weight	Quantity/Carton	Package Dimensions (LxWxH)
RL2 (standard)	4 kg	5 kg	1 pc	800x250x170mm
RL4 (standard)	8 kg	13.6 kg	1 pc	1480x270x200mm

Mounting

Options	Description	Kit (mm)	Installed
Ceiling Mount (Bracket Mount)	Provided with two stainless steel mounting kits welded at the back of Housing	Standard Mounting Kit (Included) Bracket	
Rope Pendant Mount	Provided with two stainless steel wire. Measured 1mm diameter.	22.5 Ø4.2 Ø1.5 Ø4.2 1500	
Pole Mount	(1) 155° Pipe (2) Pipe Clamp bracket	683.3 pipe diameter: 38-40mm 155° 622.2 4xM8 50 102 110 44 683.3 155°Pipe X1 diameter: 38-50mm M8 Pipe Clamp bracket X2	M8 Cable Entry 155° 4-M8 *24.9mm 50-69.8mm Remark: The cable can be connected to a circular tube and then to a lamp pole.

*Mounting screws not provided

**Ordered separately,   field installed

Ordering Guide

EX - **W RL* Y Z D - **

1   2   3   4   5 6   7

1.Product Series	2.Rated Power
EX = Explosive-proof series	RL2 (Normal mode): 15W/20W/30W RL2 (Emergency mode): 10W RL4 (Normal mode): 20W/30W/35W/40W/45W/50W/55W RL4 (Emergency mode): 10W

3. Design NO.	4.Dimming function	5. Color Temperature	6. Beam Angle	7. Product Type
RL2 RL4	Y: Dimmable Y: Non-dimmable	40 = 4000K 50 = 5000K 60 = 6000K	D = 120°	EM = Emergency Blank = Normal