ZONED INDUSTRIES

M-ELEC

Version 5

R Series (SS304 Housing)

(Zone 1 & 2 / 21 & 22)

Product information

The EX-R series linear vapor tight is designed for use in hazardous locations that feature the presence of flammable gases, vapors, or liquids 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 emergency battery backup system provides a minimum of 3 hours operation after AC power is lost during an emergency. It operates with 120 or 277V dual voltage. Supplied with wall/ceiling mount brackets.

5 YEAR WARRANTY

Ex

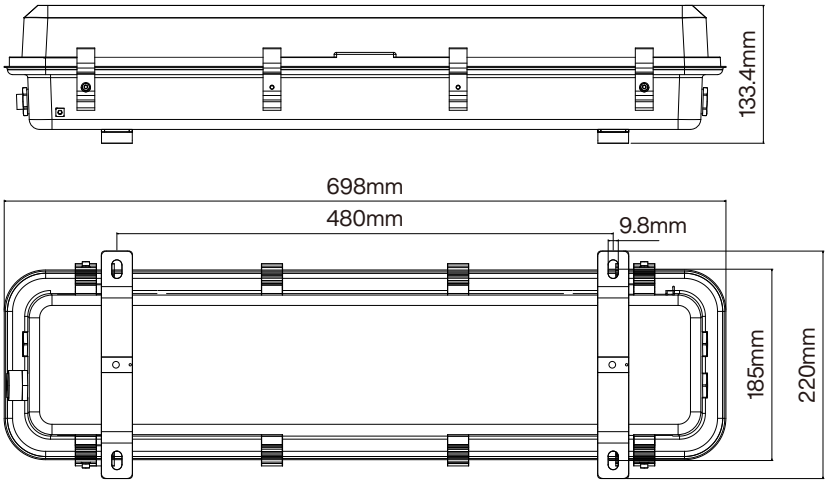
TECHNICAL INFORMATION

	EX-20WR2YZDA EX-30WR2YZDA	EX-40WR4YZDA EX-50WR4YZDA
Power Consumption	**EX-20WR2YZDA** 2x10W | **EX-30WR2YZDA** 2x15W	**EX-40WR4YZDA** 2x20W | **EX-50WR4YZDA** 2x25W
Input Voltage	100-277VAC	
Input Frequency	50/60Hz	
Input Current	**EX-20WR2YZDA** 0.17/0.08A | **EX-30WR2YZDA** 0.26/0.12A	**EX-40WR4YZDA** 0.34/0.15A | **EX-50WR4YZDA** 0.42/0.19A
Power Factor	>0.9	
Surge Protection	4kV	
Driver Efficiency	≥90%	
Dimming	Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit	
Lumen Output	**EX-20WR2YZDA** 2500lm | **EX-30WR2YZDA** 3750lm	**EX-40WR4YZDA** 5000lm | **EX-50WR4YZDA** 6250lm
Lumens Per Watt	125lm/W	
CCT	2700K / 4000K / 5000K / 6000K	
CRI	Ra=83	Ra=84
Beam Angle	120°	
Housing material	SUS 304 stainless steel	
Lens Material	Transparent fiberglass-reinforced polycarbonate (standard) | Diffuse fiberglass-reinforced polycarbonate (optional)	
Gasket	Silicone Rubber	
Latches/Clips	Aluminium alloy	
Colour	Milky White	
Finish	Epoxy powder coating	
Protection	IP66 / IK10 / 1200hrs salt spray	
Mounting	Ceiling / Cable / Pole Mount	
Cable Entries	Standard: 4 x M20 (Side x1 open, Side x3 with stopping plugs)	
Rated Ambient Temperature Range	**Normal** -40°C to +45°C (T6/T80°C); -40°C to +60°C (T5/T95°C) **Emergency** -10°C to +45°C (T6/T80°C); -10°C to +60°C (T5/T95°C)	
Size	L 749mm x W 201mm x H 119mm	L 1346mm x W 201mm x H 119mm
Warranty	5 Years	

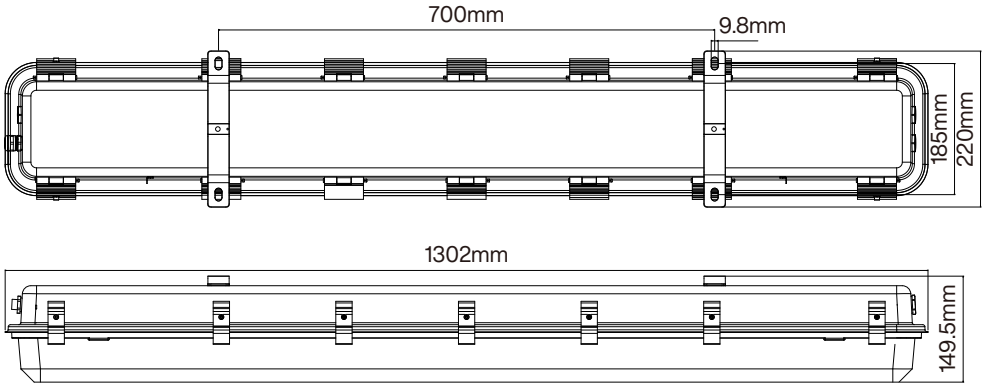
* Emergency function is optional ONLY in Non-American market.
** This is the MAX ambient temperature - can be lower depending on the wattage and zone of the fitting. See IECEX certificate for detailed information.

PRODUCT DIMENSIONS

R2



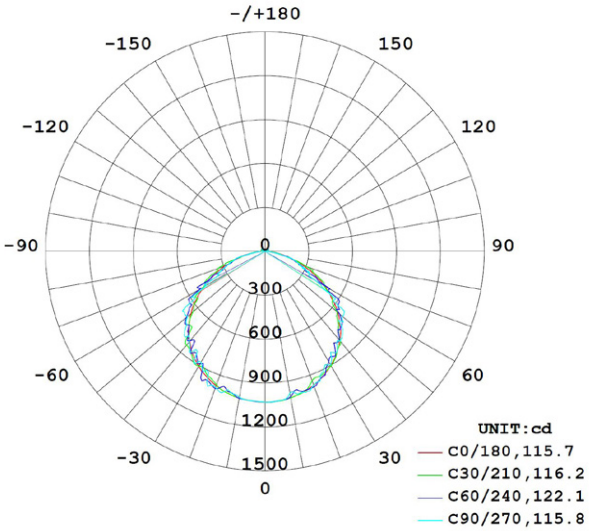
R4



Model	Net Weight (Product)	Product Dimensions	Gross Weight*	Carton Quantity	Package Dimensions
EX-XXW R2YZDA	5.27kg	L 698mm x W 220mm x H 133mm	6.55kg	1 pc	L 700mm x W 350mm x H 175mm
EX-XXW R2YZDA w/EM	6.5kg	L 698mm x W 220mm x H 133mm	7.43kg	1 pc	L 700mm x W 680mm x H 175mm
EX-XXW R4YZDA	8.92kg	L 1302mm x W 220mm x H 149mm	11.2kg	1 pc	L 1320mm x W 350mm x H 175mm
EX-XXW R4YZDA w/EM	10.2kg	L 1302mm x W 220mm x H 149mm	11.54kg	1 pc	L 1320mm x W 680mm x H 175mm

*The gross weights are estimated values.

PHOTOMETRIC



AVERAGE BEAM ANGLE(50%):117.4 DEG

ORDERING GUIDE

EX - xxW Rx Y Z D A
① ② ③ ④ ⑤ ⑥ ⑦

1	Model Series	EX - Explosion Proof Product
2	Wattage	20W | 30W | 40W | 50W
3	Product Code	R2 | R4
4	Dimming Option	Y = Dimmable | N = Non Dimmable
5	Color Temperature	27 = 2700K | 40 = 4000K | 50 = 5000K | 60 = 6000K
6	Beam Angle	D120 = 120°
7	Lens Type	Blank = Clear | F = Frosted

For Example:

EX - 50W - R4 - Y 40 D120 S
① ② ③ ④ ⑤ ⑥ ⑦

EM DRIVER SPECIFICATION FEATURES - EM-10W

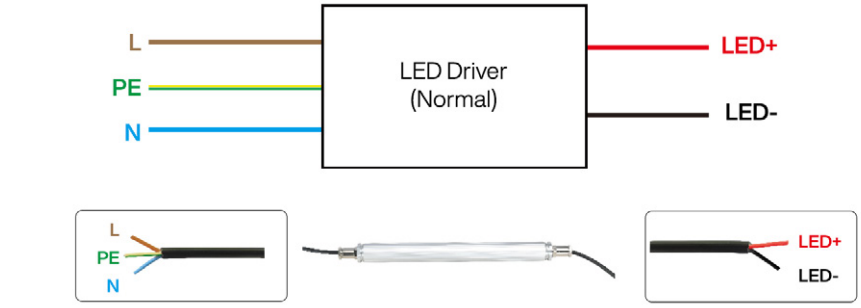
Input Rating				Emergency Output Rating	
120-270V AC	50/60Hz	Max. 0.6A	Max 10-50W	28-50V DC	10W

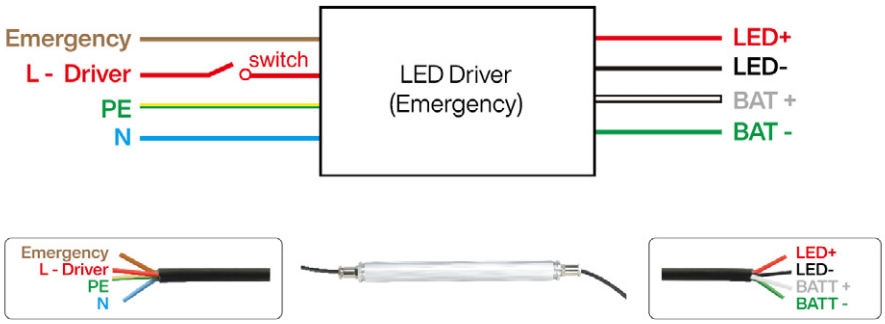
Charging Time	Emergency Run Time	Response Time	Rated Ambient Range	Battery Life Expentancy24
>36hr	>120min	< 1 second	-10°C to +45°C	5 years

DRIVER SPECIFICATIONS FEATURES - R2/R4

Specification	Nominal Voltage	Nominal Capacity	Resistance
18650	3.7V	3400mAh	≤ 30mΩ

WIRING GUIDES

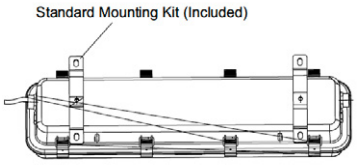


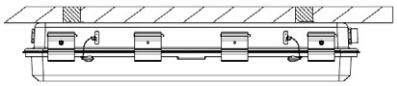


INSTALLATION - CEILING MOUNT

Kit **Installed**

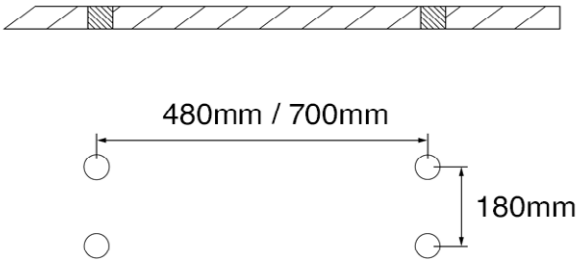
Provided with two stainless steel mounting kits welded at the back of Housing.





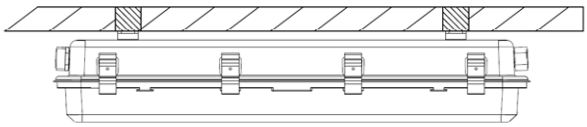
1

Drill 4 holes according to below measurements and install expanded screws.
R2 - 480mm | R4 - 700mm



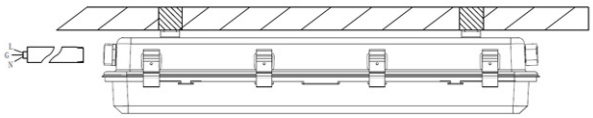
2

Intall the light to the ceiling and tighten the nuts.



3

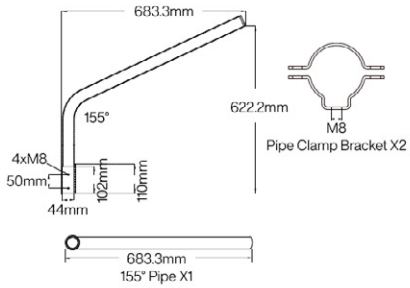
Connect the wires and conduit

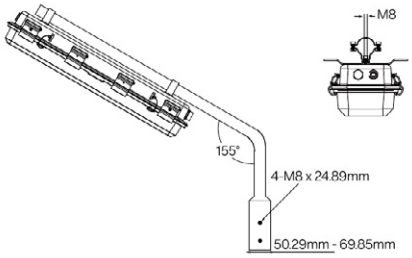


INSTALLATION - POLE MOUNT

Kit **Installed**

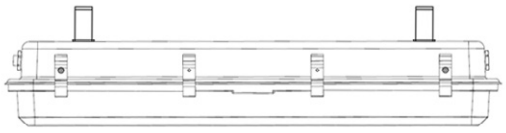
(1) 155° Pipe
(2) Pipe Clamp Bracket

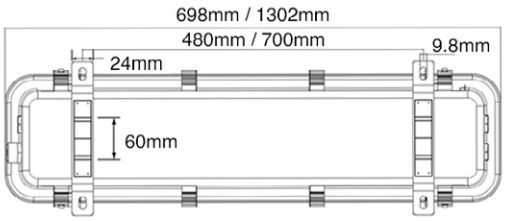




1

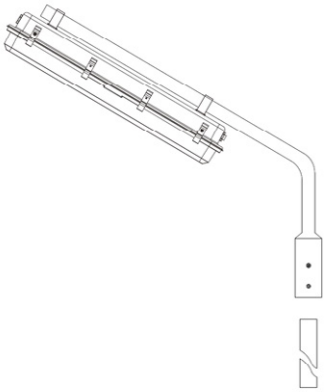
Fix the lamp to the pole provided by mounting rings welded at the back of lamp Tighten the screws on the mounting rings.





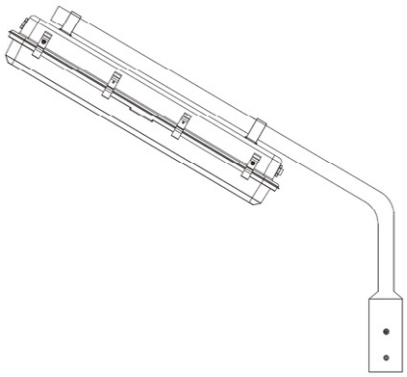
2

Place the pole provided to the top of your pole. Then tighten four set screws shown below.



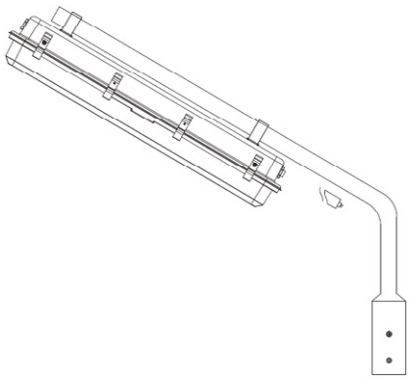
3

Connect the wires and conduit.



4

Installation is complete. Suitable for all instalaltion angles.

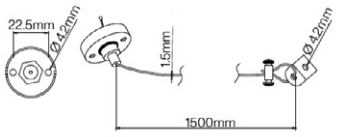


INSTALLATION - ROPE MOUNT

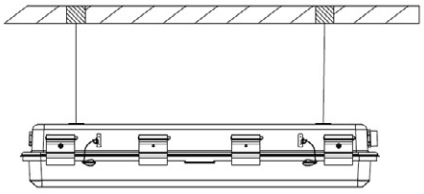
CABLE MOUNTING

Provided with two stainless steel wire. Measured 1mm diameter.

Kit

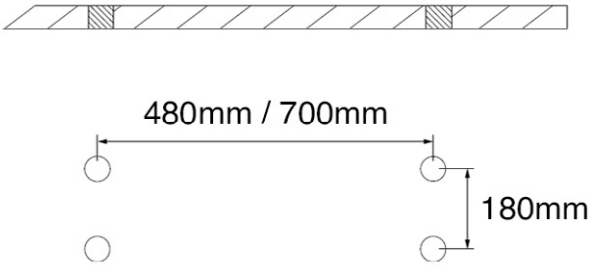


Installed



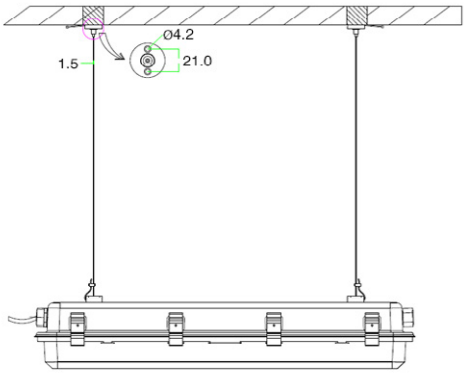
1

Drill 4 holes on ceiling according to below measurements and install expanded screws.
R2 - 480mm | R4 - 700mm



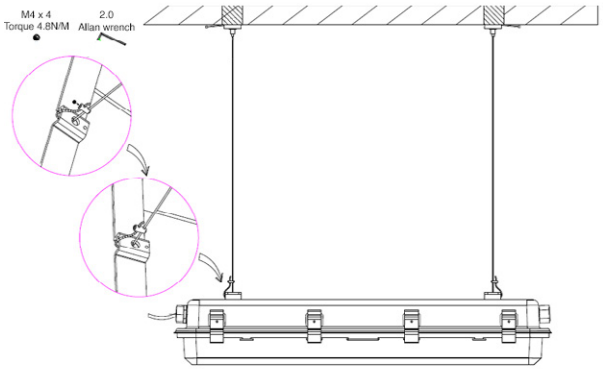
2

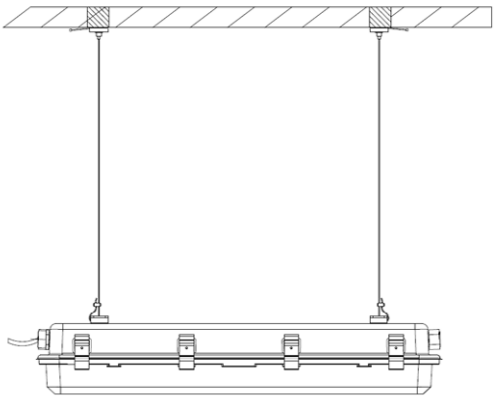
Install suitable expansion bolts (not provided) to the celling.



3

Install the luminaire to the ceiling by expansion bolts.



4

Connect the wires and conduit.