

EX Pod

ZONE
21/22

ZONE
1/2

EX

IP
68

A standout luminaire with IP68 level protection & impressive operating temperature range.



This IP68 fitting is designed for durability in harsh environments and available for Zone 21/22 as well as Zone 1/2.



Proudly manufactured in
South Africa using
European LED Technology



kV Protection:
4kV, 10kV on
request

IP
68

Indoor /
Outdoor



Impact
Resistance:
IK08/5J



5 Year
Warranty

energywise

Better light
through research.

INTRODUCING



This IP68 fitting is designed for durability in harsh environments and available for Zone 1/2 as well as Zone 21/22.

Our EX Pod is the perfect combination of durability and output. Housed inside an impact resistant polycarbonate tube and available for Zone 21 and 22 locations which are hazardous because of the presence of combustible dust and fibers and Zone 1 or 2 which are hazardous due to the presence of combustible liquids or gases.

Our EX fittings are manufactured using approved EX technology sourced from the leading component manufacturers in Europe. We then put the new luminaries through months of testing to ensure that the final product could deliver against our exacting specifications.

The final result, an EX light several years in the making, yet on the very tip of the latest technological advancements in LED EX light technology, available today.

KEY FEATURES

MODULAR

- With extra Lumen Packages up to 21000 lm by pairing multiple pods.

4 SIZE OPTIONS

- EX Pod 1420mm
- EX Pod 1700mm
- EX Pod 1980mm
- EX Pod 2260mm

CASING

- Impact rating IK08/5J (ZONE 21/22)
- Impact rating IK08/10J (ZONE 1/2)

TEMPERATURE

- Ambient room temperature -25°C to +40°C.



*25°C is for Textbooks, Not Africa's Sun:
All EW Lights are designed for the 30°C Reality. Minimum.

IP65

EX ZONE 21/22

EX ZONE 1/2



kV Protection:
4kV, 10kV on request



5000K standard
3000K, 4000K, 6500K available
CR>80



Indoor / Outdoor



Impact Resistance:
IK08/5J



Casing Diffuser:
Polycarbonate

8 Different wattage, length & lumen options

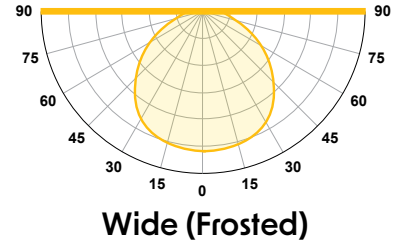
	LOW OUTPUT	HIGH OUTPUT	POD 103
Raw Lumen:	4410 lm	5150 lm	
Effective Lumen:	3080 lm	3550 lm	
Wattage:	25W	33W	
Power Factor:	0.95	0.95	
Raw Efficacy:	176 lm/w	157 lm/w	
Effective Efficacy:	123 lm/w	108 lm/w	
Max Ta:	35°C	35°C	
L&B:	L90 B10 L80 B10	L80 B10	
1420mm x 50mm			

Raw Lumen:	5890 lm	6870 lm	POD 104
Effective Lumen:	4100 lm	4730 lm	
240V:	34W	44W	
Power Factor:	0.95	0.95	
Raw Efficacy:	176 lm/w	157 lm/w	
Effective Efficacy:	123 lm/w	108 lm/w	
Max Ta:	35°C	35°C	
L&B:	L90 B10 L80 B10	L80 B10	
1700mm x 50mm			

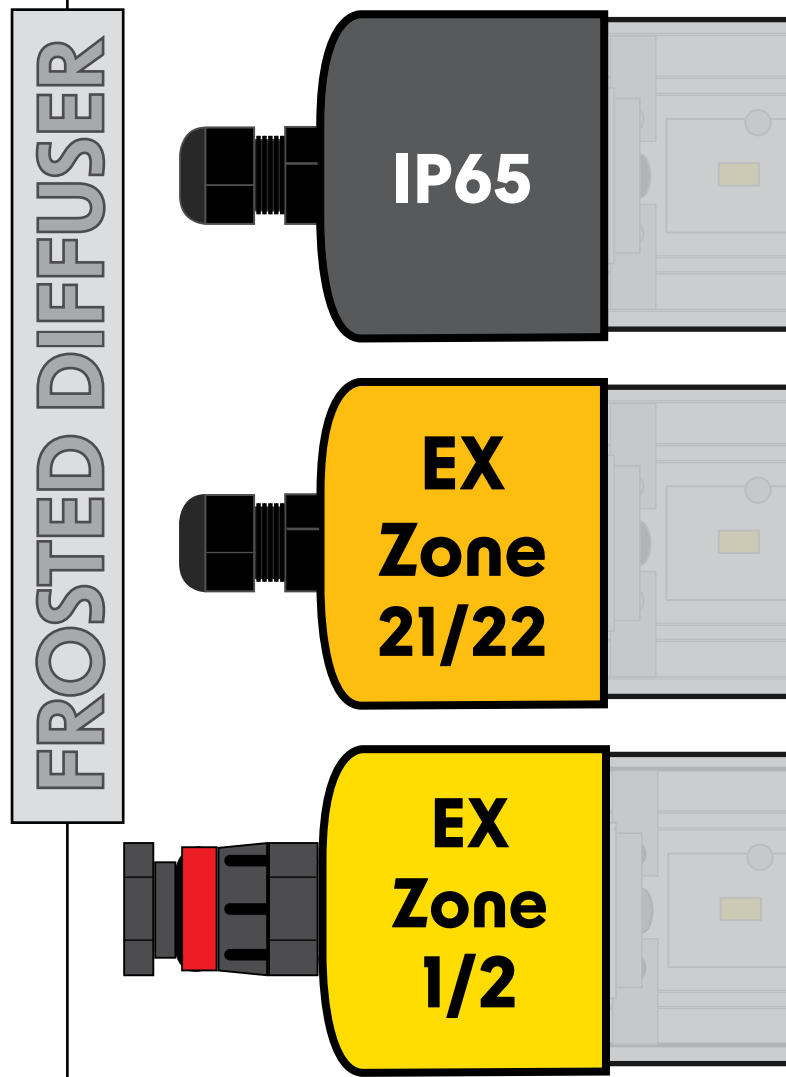
Raw Lumen:	7360 lm	8590 lm	POD 105
Effective Lumen:	5130 lm	5910 lm	
240V:	42W	55W	
Power Factor:	0.95	0.95	
Raw Efficacy:	176 lm/w	157 lm/w	
Effective Efficacy:	123 lm/w	108 lm/w	
Max Ta:	35°C	35°C	
L&B:	L90 B10 L80 B10	L80 B10	
1980mm x 50mm			

Raw Lumen:	8830 lm	10,300 lm	POD 106
Effective Lumen:	6160 lm	7100 lm	
240V:	50W	66W	
Power Factor:	0.95	0.95	
Raw Efficacy:	176 lm/w	157 lm/w	
Effective Efficacy:	108 lm/w	108 lm/w	
Max Ta:	35°C	35°C	
L&B:	L90 B10 L80 B10	L80 B10	
2260mm x 50mm			

Distribution option



3 Different protection grade options



Zone 1/2 Available in:

Group I: Mining applications
(methane and coal dust risks)

Group IIA: Surface industries
(general industrial gases like propane)

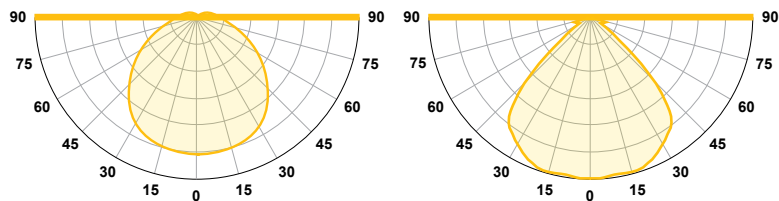


Distribution Options

The light you need, where you want it.

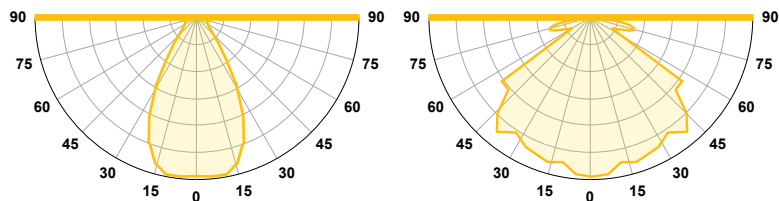
EX Pods protect your LEDs, and offer light onto a specific area, surface, or object. Floodlighting is a basic element of both interior and exterior lighting. These indoor luminaries are not only able to project a wide spread of light, with the use of lenses we can also provide task lighting.

Task (focused) lighting provides increased light for specific tasks in a room that may already have some ambient light. Task lighting is especially useful for seeing small objects or objects of low contrast. We can offer solutions to combine several pods to get the exact lighting you require.



Wide (Frosted)

Wide 90°



Medium 60°

Extra Wide 120°



A Closer Look

Engineered to the highest standards.

Housing

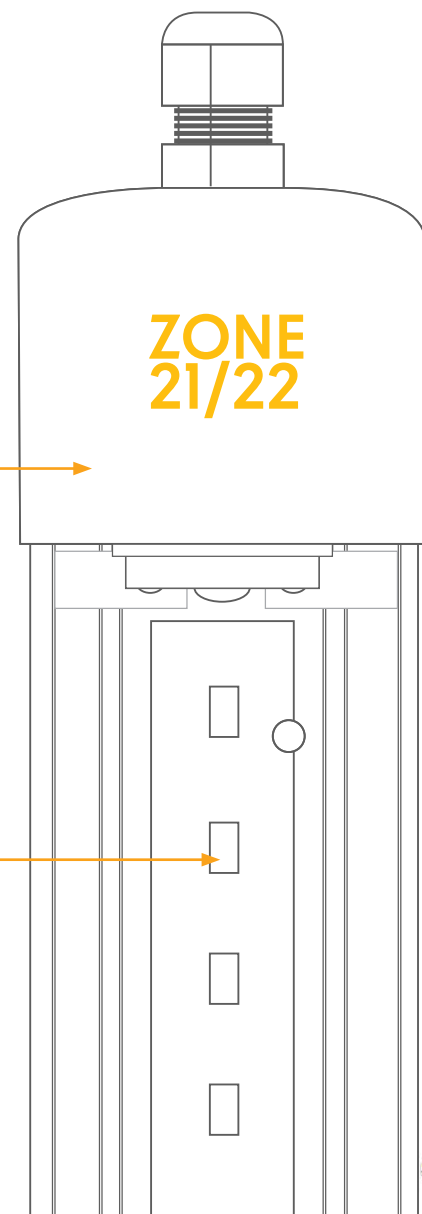
Designed & engineered using polycarbonate for harsh environments.

Driver

Only the highest quality drivers from Europe with F3, 4kV, 100K hours. Driver can either be housed within the LED tube or piggy backed in a separate tube above the LEDs.

LEDs

Source from the best component manufactures in Europe to ensure maximum lifespan, quality and light spectrum.



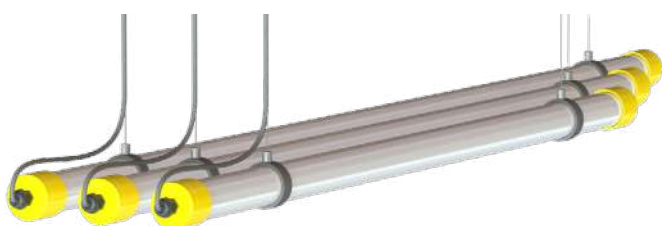
Installation & Configurations

Easy to install , **Saving** you time & money

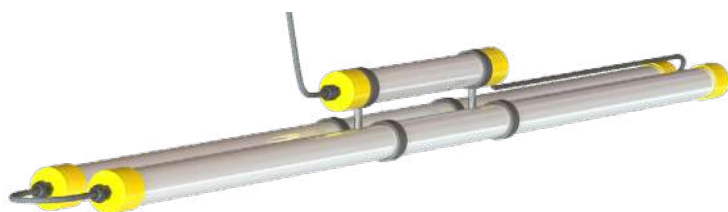


Pendant mounting

Slick, rubberised, easy to install.



Banking / Stacking - For increased lumen output.



Remote Driver / Control Gear - Piggy back configuration for uninterrupted light.

Disclaimer:

Although every effort is made to ensure that at the time of publication, the technical details here within, are accurate, true and in line with the latest production specifications, we do reserve the right to change or upgrade any of the details without prior notice, agreement or warning, for any of our products or components.

Our products and their performance are in constant evolution through:

- technology upgrades to improve energy efficiency and performance, increased safety and cost effectiveness

- to comply or conform to suppliers updates or according to new safety standards.

The true nature of any upgrade is always to provide a better product, therefore, there will be no recourse for any complaints or claims of any nature regarding changes to specs.

We are ISO 9001-2015 compliant and our assembly line follows IEC 60958 guidelines – our products are covered by a Product Liability Policy.

Our LED products are covered by a 5 year warranty*

*T&C's apply, please check with Head Office for further details.

energywise

chemical agents

Resistance KEY:

✓	Resistant
⊙	Relatively Resistant
⊘	Non-resistant

Chemical agent	Polycarbonate	Aluminum
Acetic acid 10%	✓	✓
Acetone	⊘	✓
Alcoholic beverages	✓	✓
Aluminum sulphate	✓	✓
Ammonia 5%	⊘	✓
Aniline	⊘	✓
Arsenic acid 20%	✓	✓
Benzene	⊘	✓
Bencylic alcohol	⊘	⊙
Benzyl	⊘	✓
Bromine	⊘	⊘
Calcium Chloride	✓	✓
Calcium nitrate	✓	✓
Carbon tetrachloride	⊘	✓
Carbonic acid	⊘	✓
Caustic potash	⊘	⊘
Cement	✓	✓
Chlorhydric acid 1-5%	✓	⊘
Chlorine liquids (vapours)	⊘	⊘
Chloroform	⊘	✓
Chromic acid	⊙	⊘
Citric acid 20%	✓	✓
Copper sulphate	✓	⊘
Diesel-naphtha oil	⊙	✓
Ethyl alcohol	✓	✓
Ethyl chloride	⊘	⊙
Ethyl ether	⊘	✓
Food oils and fats	⊘	✓
Formic acid 10%	✓	⊘
Glycerine	✓	✓
Hexane	✓	✓
Iodine	⊘	⊙
Iron chloride	✓	⊙
Isopropyllic alcohol	⊙	✓
Lubricating oil	✓	✓
Magnesium sulphate	✓	✓
Methanol	⊘	✓
Mineral oils	✓	✓
Nitric acid 20%	⊙	⊘
Oxygen	✓	✓
Ozone	✓	✓
Perchloric acid 10%	✓	⊘
Petrol	⊘	✓
Phenol	⊘	✓
Potassium bromide	✓	⊙
Potassium nitrate	✓	✓
Pothassium permanganate	✓	✓
Sea climate	✓	⊙
Silicon oils	✓	✓
Soda bleach 15%	⊘	⊙
Sodium chloride	✓	⊙
Sodium hydroxide 5%	⊘	⊘
Sodium sulphate	✓	✓
Sugar	✓	✓
Sulphur	✓	✓
Sulphuric acid 30%	✓	⊘
Toluene	⊘	✓
Trichloroethylene	⊘	✓
Zinc sulphate	✓	⊙

Features

Standard across the EX Pod range.



Indoor / Outdoor



Polycarbonate encapsulation.



Colour temperature 5600K



Colour rendition index 80+



L&B Life Rating: L90 B10



Earth connection and CLASS I insulation fixture.



Optic impact rating IK08/5J.



Voltage surge protection up to 4 kV.



Suspended/pendent mount.



Plug & Play



Modular



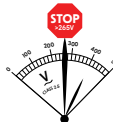
5 year warranty:
Please visit
www.energywise.co.za

Extras

Optional Extras



IES files available.



VOLTpro

Effective lumen output after warmup:

We follow the same practice as other professional manufacturers in providing Effective Performance Data (Lumens, Watts and L&B) that are inclusive of driver and LED thermal losses during the warm-up period. This can only be achieved by performing the Energy and Photometric Measurement after the LED, within the fitting, is left ON, until a stable and constant Lumen output is reached, ie. reaching a thermally stable condition within the LED assembly at a Ta of 35°C.

Unfortunately it's not uncommon to find suppliers using incomplete data suggesting Efficacy Lumen value to be 10 to 20% higher than the True Effective value.

This misrepresentation is achieved by using Raw LED photometric data that does not include any of the driver losses (generally 2-5 %) and any thermal adjustment losses (this can take 20-240 min & account for 7-15%)

In some extreme cases Effective Lumen is completely misquoted and only the Raw value is mentioned with much higher values.

In both these cases True Effective Lumen is misrepresented and unlawful.

Designed and
Manufactured by

energywise

**Better Light
Through Research.**

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Postal address: PO Box 1166, Kloof, South Africa, 3640



Energywise lighting options

Energywise specialises in LED luminaries for industrial, EX, commercial and horticultural applications.

Lights on

INDUSTRIAL



Bay XP
Factories, Warehouses,
Cold rooms etc.

Standard
Height: 6-25m
IP: 65
Temp: 40/65°C

Bay XL
Factories, Warehouses,
Supply rooms etc.

Standard
Height: 3-20m
IP: 40
Temp: 30°C

Bay XE
Factories, Warehouses,
Supply rooms etc.

Standard
Height: 6-25m
IP: 20
Temp: 30°C

DUSTPROOF
Warehouses, Car
parks, Corridors.

Standard
Height: 2.5-8m
IP: 66
Temp: 35°C

Torch Bulkhead
Heavy industrial areas.

Standard
Height: 2-10m
IP: 65
Temp: 30°C



HIGHbay XF
Light industrial econo
low bay.

Standard
Height: 2-10m
IP: 20
Temp: 30°C

LOWbay XF
Light industrial econo
low bay, Task lighting.

Standard
Height: 2-10m
IP: 20
Temp: 30°C

Plate XP
Swiss army knife
of lighting.

Standard
Height: 0.35m
IP: 65
Temp: 35°C

TOBLO bay
Factories, Warehouses,
Supply rooms etc.

Standard
Height: 6-25m
IP: 20
Temp: 40/30°C

Retrofit 44
Converting old HID
tech to LED

Standard
Height: 8m
IP: 00
Temp: 30°C

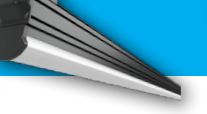
Retrofit 22
Converting old HID
bulkhead to LED

Standard
Height: 10m
IP: 00
Temp: 35°C

Bricklight
Recessed wall light

Standard
Height: 2m
IP: 00
Temp: 30°C

RETAIL & COMMERCIAL



LEDrail 1000
Shops, Production
facilities, parking

Standard
Height: 2.5-10m
IP: 40
Temp: 30°C

LEDrail 2000
Shops, Sheds,
Underground parking

Standard
Height: 2.5-10m
IP: 40
Temp: 30°C

LEDrail 4000
Retail, board rooms,
department stores.

Standard
Height: 2.5-6m
IP: 40
Temp: 35°C

LEDrail 8000
Retail, board rooms,
department stores.

Standard
Height: 2.5-6m
IP: 40
Temp: 35°C

LEDrail 4-1000
All retail outlets,
showrooms, offices etc

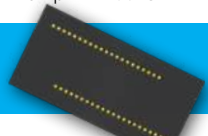
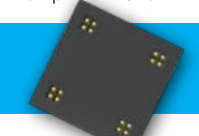
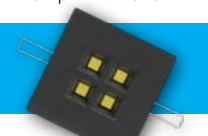
Standard
Height: 2.5-10m
IP: 40
Temp: 35°C

LEDrail 4LCO
Shops, Production
facilities, showrooms etc

Standard
Height: 2.5-10m
IP: 40
Temp: 35°C

DLBR-LED
Glare free
precision lighting

Standard
Height: 2.5-10m
IP: 40
Temp: 35°C



Downlighter
Offices, retail and
hospitality settings.

Standard
Height: 0.15m
IP: 40
Temp: 30°C

Panel 600x600
Offices, healthcare,
educational facilities.

Standard
Height: 0.6m
IP: 40
Temp: 30°C

Panel 1200x600
Offices, commercial,
educational settings.

Standard
Height: 0.6m
IP: 40
Temp: 30°C

EX Bay XP
Factories, Warehouses,
Mills, Marine etc.

Standard
Height: 6-25m
IP: 65
Temp: 40°C

**EX DUSTPROOF
PREMIUM** Warehouses,
Car parks, Mills.

Standard
Height: 2.5-8m
IP: 65
Temp: 35°C

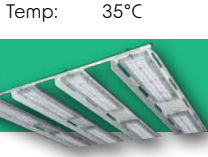
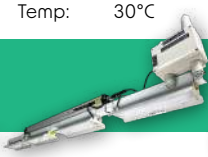
EX DUSTPROOF
Warehouses, Car
parks, Corridors, Mills.

Standard
Height: 2.5-8m
IP: 65
Temp: 35°C

EX Pod
Factories, Mines,
Marine etc.

Standard
Height: 2-5m
IP: 68
Temp: 40°C

EARTH



EX Torch
Heavy industrial
areas.

Standard
Height: 2-10m
IP: 65
Temp: 40°C

EARTHbay
Horticulture, Open
areas etc

Standard
Height: 2.5m
IP: 65
Temp: 35°C

EARTHplate
Horticulture, Rack/
Under shelf etc

Standard
Height: 0.5m
IP: 65
Temp: 35°C

EARTHpod
Horticulture,
Propagation, Racks etc.

Standard
Height: 0.2m
IP: 65
Temp: 35°C

EARTHaxis
Grow tent
horticulture

Standard
Height: 0.2m
IP: 65
Temp: 35°C

Job done

energywise

Better light
through research.