

EX Pod

ZONE
21/22



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



Indoor /
Outdoor



Impact
Resistance:
IK08/5J

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.

*25°C is for Textbooks, Not Africa's Sun:
All EW Lights are designed for the 35°C Reality.

KEY FEATURES

MODULAR

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

4 SIZE OPTIONS

- EX Pod 1350mm
- EX Pod 1630mm
- EX Pod 1910mm
- EX Pod 2190mm

CASING

- Impact rating IK08/5J

TEMPERATURE

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

ZONE 21/22



Specifications for the CLEAR POD



kV Protection:
4kV, 10kV on
request



5000K standard
3000K, 4000K,
6500K available
CR>80 R9>13



**Indoor /
Outdoor**



**Impact
Resistance:**
IK08/5J



**Casing
Diffuser:**
Polycarbonate



Modular:
Expandable
system

8 different wattage, length & lumen options

EX POD 103

Raw Lumen:
Effective Lumen:

3629 lm

4249 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

27W
0.95

33W
0.95

137 lm/w

130 lm/w

Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

1350mm x 50mm

EX POD 104

Raw Lumen:
Effective Lumen:

4839 lm

5665 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

35W
0.95

44W
0.95

137 lm/w

130 lm/w

Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

1630mm x 50mm

EX POD 105

Raw Lumen:
Effective Lumen:

6049 lm

7081 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

44W
0.95

54W
0.95

137 lm/w

130 lm/w

Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

1910mm x 50mm

EX POD 106

Raw Lumen:
Effective Lumen:

7259 lm

8498 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

53W
0.95

65W
0.95

137 lm/w

130lm/w

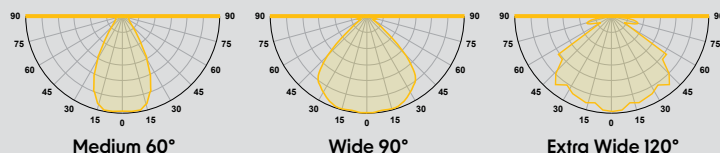
Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

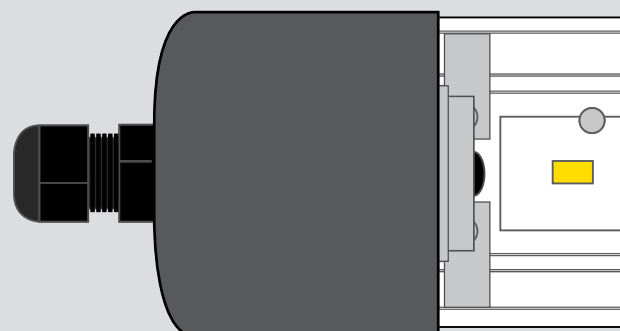
2190mm x 50mm

3 different distribution options

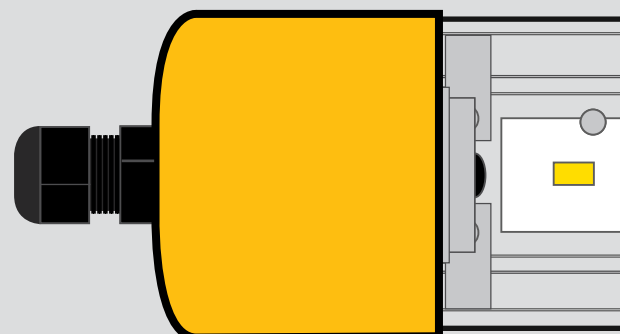


3 different protection grade options

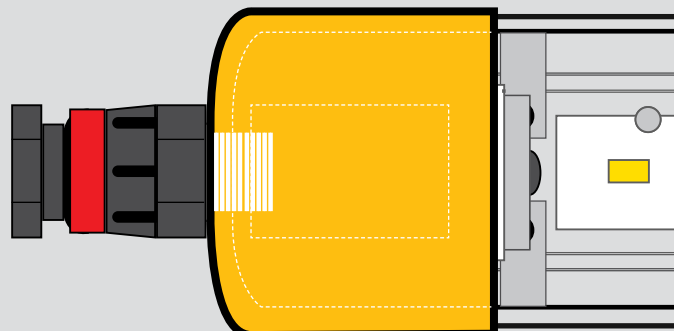
IP65



Zone 21/22



Zone 1/2



Specifications for the FROSTED POD



kV Protection:
4kV, 10kV on
request



5000K standard
3000K, 4000K,
6500K available
CR>80 R9>I3



**Indoor /
Outdoor**



**Impact
Resistance:**
IK08/5J



**Casing
Diffuser:**
Polycarbonate



Modular:
Expandable
system

8 different wattage, length & lumen options

EX POD 103

Raw Lumen:
Effective Lumen:

2052 lm

2364 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

18W
0.95

21W
0.95

117 lm/w

111 lm/w

Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

1350mm x 50mm

EX POD 104

Raw Lumen:
Effective Lumen:

4104 lm

4728 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

35W
0.95

43W
0.95

117 lm/w

111 lm/w

Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

1630mm x 50mm

EX POD 105

Raw Lumen:
Effective Lumen:

5130 lm

5910 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

44W
0.95

53W
0.95

117 lm/w

111 lm/w

Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

1910mm x 50mm

EX POD 106

Raw Lumen:
Effective Lumen:

6156 lm

7092 lm

240V:
Power Factor:
Raw Efficacy:
Effective Efficacy:

53W
0.95

64W
0.95

117 lm/w

111 lm/w

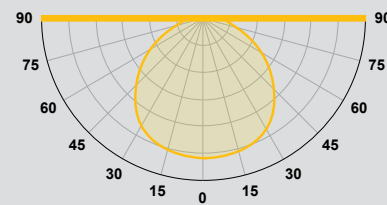
Max Ta:
L&B:

40°C
L90 B10
L80 B10

40°C
L80 B10

2190mm x 50mm

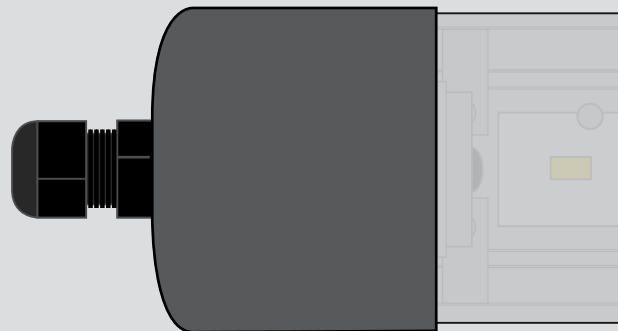
Distribution option



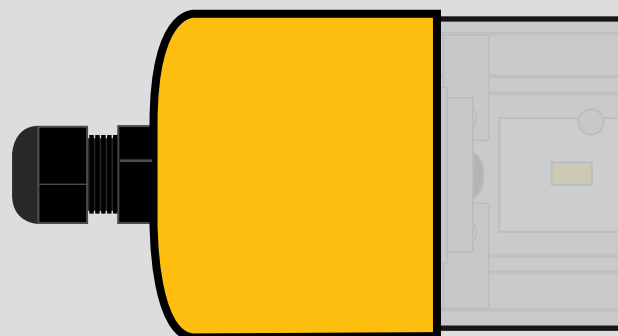
Wide (Frosted)

3 different protection grade options

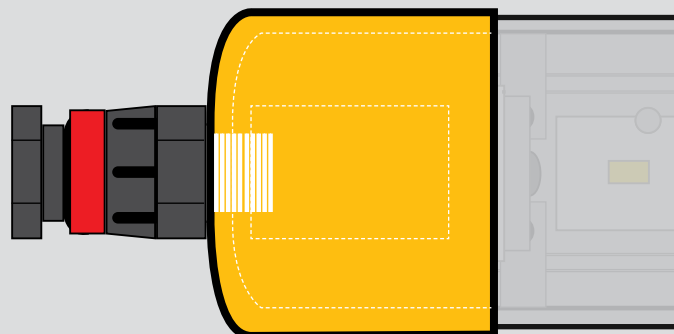
IP65



Zone 21/22



Zone 1/2

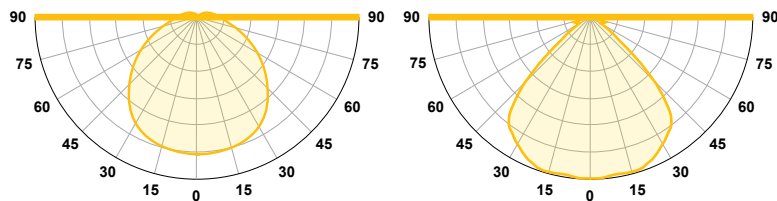


Distribution Options

The light you need, where you want it.

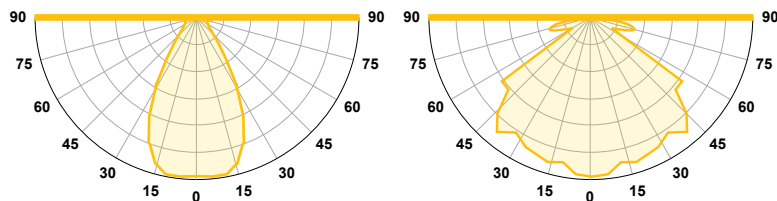
EX Pods protect your LEDs, and offer light onto a specific area, surface, or object. Floodlighting is a basic element of both interior and exterior lighting. These indoor luminaries are not only able to project a wide spread of light, with the use of lenses we can also provide task lighting.

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

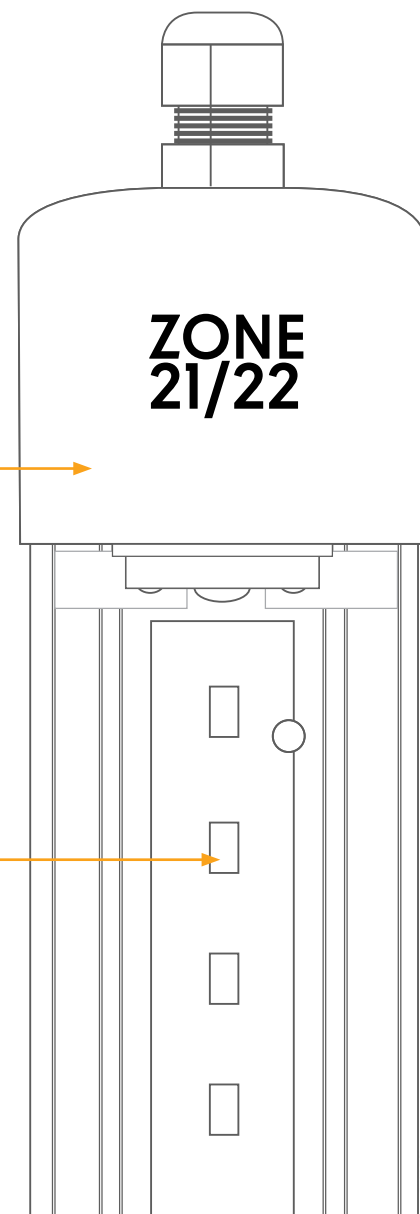
Designed & engineered using polycarbonate for harsh environments.

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.

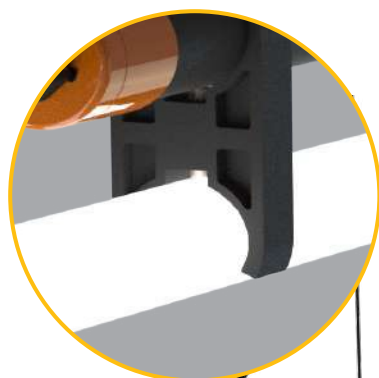
LEDs

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



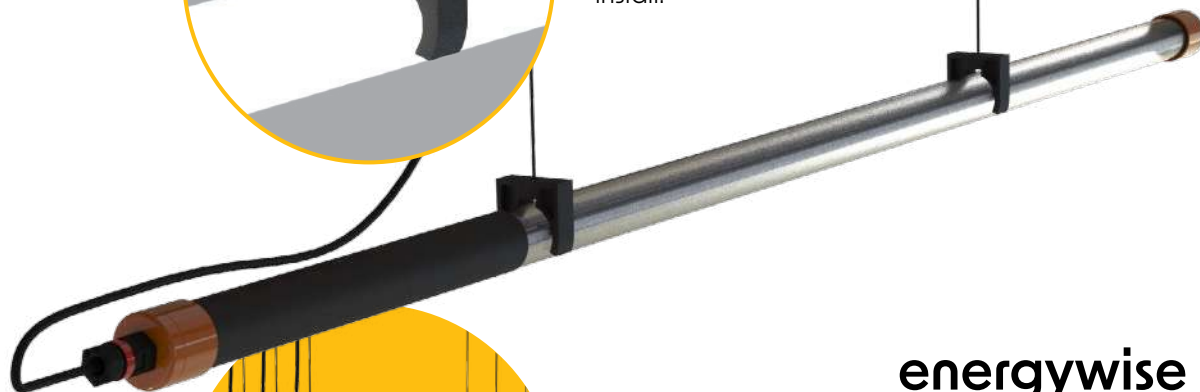
Installation & Configurations

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



Pendant mounting

Slick, rubberized, 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	Aluminium
Acetic acid 10%	✓	✓
Acetone	⊖	✓
Alcoholic beverages	✓	✓
Aluminium sulphate	✓	✓
Ammonia 5%	⊖	✓
Aniline	⊖	✓
Arsenic acid 20%	✓	✓
Benzene	⊖	✓
Benzyl 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	✓	⊕
Isopropyl alcohol	⊕	✓
Lubricating oil	✓	✓
Magnesium sulphate	✓	✓
Methanol	⊖	✓
Mineral oils	✓	✓
Nitric acid 20%	⊕	⊖
Oxygen	✓	✓
Ozone	✓	✓
Perchloric acid 10%	✓	⊖
Petrol	⊖	✓
Phenol	⊖	✓
Potassium bromide	✓	⊕
Potassium nitrate	✓	✓
Potassium 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+



World class LED Life rating



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

QMS-EXP-EWBR-240819

Extras

Optional Extras



Excellent luminous Efficacy (Lm/W)



IES files available.

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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Permit number
MASC-098MR



Energywise lighting options

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

INDUSTRIAL

Lights on



Bay XP
Factories, Warehouses,
Cold rooms etc.

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



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 4-100
All retail outlets,
showrooms, offices etc

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



LEDRAIL 4LCO
Shops, Production
facilities, showrooms.

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

EX



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

Standard
Height: 6-25m
IP: 65
Temp: 40°C
Zone: 21/22



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

Standard
Height: 2.5-8m
IP: 65
Temp: 40°C
Zone: 21/22



EX DUSTPROOF
Warehouses, Car parks,
Corridors, Mills.

Standard
Height: 2.5-8m
IP: 65
Temp: 40°C
Zone: 21/22



EX Pod
Factories, Mines,
Marine etc.

Standard
Height: 2-5m
IP: 68
Temp: 40°C
Zone: 21/22



EX Torch
Heavy industrial areas.

Standard
Height: 2-10m
IP: 65
Temp: 40°C
Zone: 21/22

EARTH



EARTHbay
Horticulture, Open
areas etc

Standard
IP: 65
Temp: 35°C



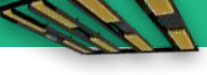
EARTHplate
Horticulture, Rack/
Under shelf etc

Standard
IP: 65
Temp: 35°C



EARTHpod
Horticulture,
Propagation, Racks etc.

Standard
IP: 65
Temp: 35°C



EARTHaxis
Grow tent
horticulture

Standard
IP: 65
Temp: 35°C

Job done

energywise

Better light
through research.