

# EX Torch

ZONE  
21/22

Ex tb IIIC T85°C Db IP65  
MASC S/20-2181X

EX

IP  
65

## Who says tough can't be pretty?

Our industrial LED bulkhead is composed of high-pressure LM6 Marine grade cast aluminum body and clear polycarbonate cover all wrapped up with an IP65 rating and able to withstand temperatures of 40°C ambient. Available in 4 different light distributions and standard with a replaceable 10kV surge protection this luminaire is rated for zone 21 and zone 22.



Proudly manufactured in  
**South Africa** using  
European LED Technology



**kV Protection:**  
Up to 10kV  
Standard



**Outdoor/  
Indoor**



**LM6 Marine  
Grade Cast  
Aluminum**



**5 Year  
Warranty**

**energywise**

Better light  
through research.

# INTRODUCING



**Marine grade high-pressure die cast aluminum body and clear polycarbonate cover wrapped up with an IP65 rating.**

**Our EX TORCH** range is based off of the same chassis of our industrial Torch Bulkhead. What this means for you is a fitting whose body has proved itself at cooling, protecting and housing luminaries in some of the most rugged environments in Africa.

**We then combined** this chassis with EX technology sourced from the leading component manufacturers in both Europe. These new systems were then put through months of testing to ensure that the final product could deliver against our exacting specifications.

**The final result**, an EX light at the leading edge of technological advancements in LED EX lighting technology.

## KEY FEATURES

### LENSES

- 4 different optics.

### FRONT COVER

- Impact rating IK08/5J

### TEMPERATURE

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

### MOUNTING OPTIONS

- Surface mounting brackets
- Pole mounting brackets
- Swivel mounting bracket
- Adapter 44 mounting bracket



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

# Specifications

The perfect configuration for its job.



**kV Protection:**  
up to 4kV, 10kV  
on request



**Indoor/Outdoor**



**Impact Resistance:**  
IK08/5J



**Lenses:**  
Polycarbonate



**Construction:**  
Aluminum &  
Stainless Steel



**Marine Grade Aluminum**



**L&B Life Rating**  
L80 B10  
60 000 hrs

## EX TORCH

Raw Lumen:  
Effective Lumen:

10,560 lm  
8584 lm

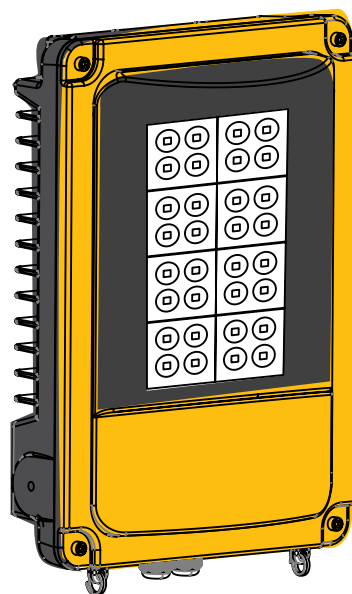
**Wattage:**  
Power Factor:  
Raw Efficacy:  
Effective Efficacy:

**67W**  
0.95  
**160 lm/w**  
**130 lm/w**

Max Ta:  
L&B:  
Hrs:

**40°C**  
L80 B10  
60 000 Hrs

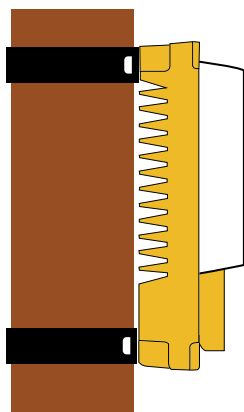
Fitting Size LxBxH: **450mm x 280mm x 115mm**



## Installation

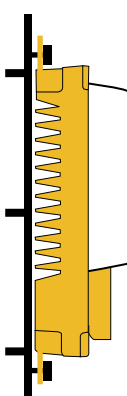
Easy to install , **Saving** you time & money

The EX Torch is a purpose designed LED bulkhead built for an industrial environment where dust is a potential hazard. Four easily attached mounting feet as standard. Alternatively pole brackets or extender 44 bracket or swivel bracket is optional.



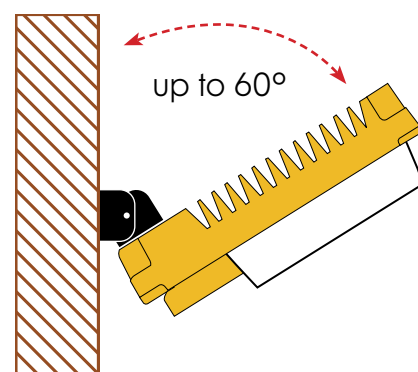
### Option 1 Pole Brackets

Ideal for pole mounting.



### Option 2 Adapter 44 Bracket

Seamless integration.



### Option 3 Swivel Bracket

Seamless angle adjustments.

#### Disclaimer:

While every effort is made to ensure the accuracy of technical details at the time of publication, we reserve the right to modify or upgrade any product or component specifications without prior notice. Our products undergo continuous improvements in technology, energy efficiency, safety, and cost-effectiveness to meet evolving industry standards and supplier updates.

All upgrades are made to enhance product quality, and as such, no claims or complaints will be entertained regarding specification changes.

We are ISO 9001:2015 compliant, and our assembly line adheres to IEC 60958 guidelines. Our products are covered by a Product Liability Policy, and our LED products come with a 5-year warranty (T&Cs apply—please contact Head Office for details).





# Distribution Options

The light you need,  
where you want it.

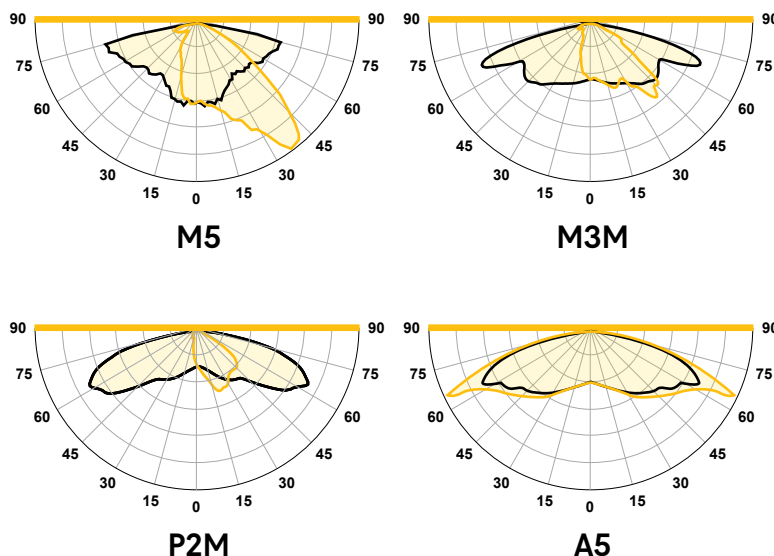
Our LED bulkhead offers a range of optical lenses designed to direct light precisely where it's needed, optimizing both efficiency and visibility. Each lens provides a unique distribution pattern tailored for different applications.

## Available Beam Options:

**P2M:** A controlled beam designed for targeted illumination, reducing light spill and enhancing efficiency in areas requiring direct lighting.

**M5:** A medium-wide distribution offering balanced coverage, ideal for pathways, corridors, and general-purpose lighting.

**A5:** A broader asymmetrical beam for illuminating large open spaces such as parking areas or pedestrian walkways.



## A Closer Look

Engineered to the  
highest standards.

### Heat-sink

This industrial bulkhead is specifically designed for LEDs, it has an external heat sink allowing for effective heat dissipation outside of the fitting.

### Cover

Polycarbonate cover offers great IK08 impact protection. The continuous rubber gasket allows for a water-resistant (IP65) assembly.

### Lenses

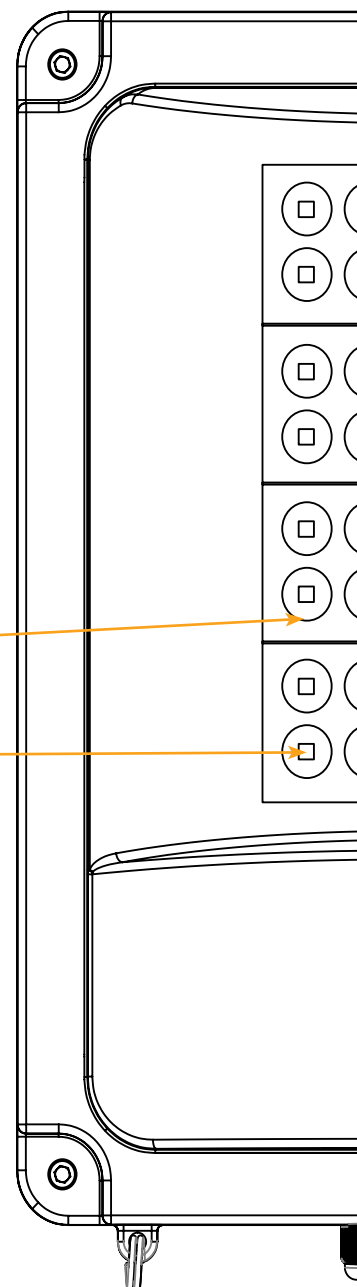
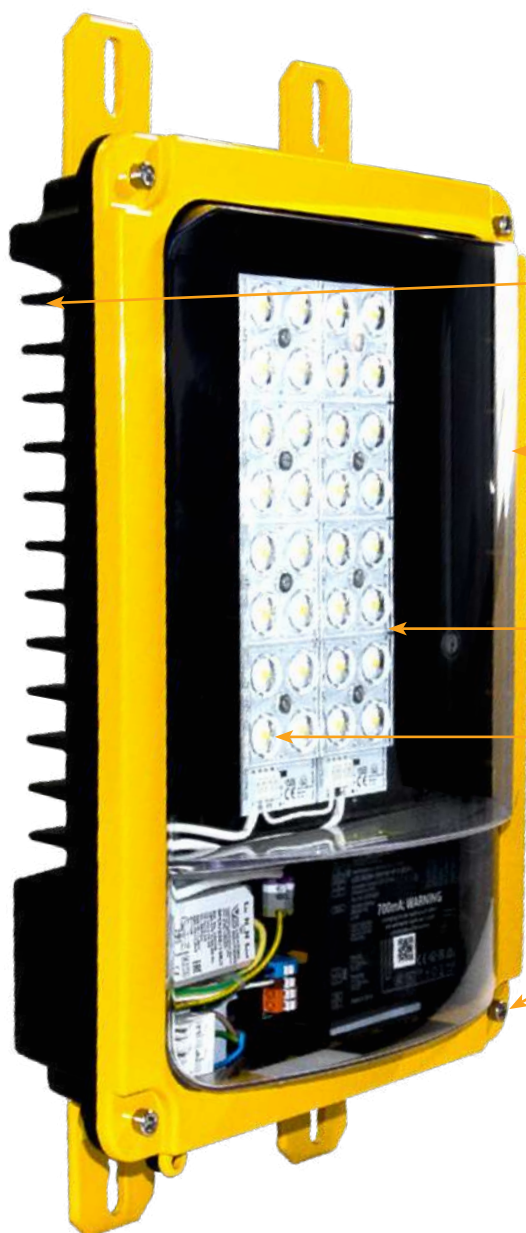
For your choice of distribution options.

### LEDs

Sourced from the best component manufacturers in Europe to ensure maximum lifespan, quality and light spectrums.

### Finishings

All fasteners are Stainless Steel 316 rust free longevity.



# Features

## Standard across the EX Torch range.



Water resistant.



Recyclable aluminum.



Polycarbonate lens and front cover.



Serviceable: All units are serviceable and all parts replaceable.



5000K Standard, 4000K, 6500K on request.



Colour rendition index 75+, 80+ on request



Top Bin Chips <3 MacAdams



Earth connection and CLASS I insulation fixture.



Front cover impact rating IK08/5J.



Replacable voltage surge protection 10kV.



Aluminum alloy with stainless steel 316 fasteners.



Surface mount.



LM6 Marine Grade Cast Aluminum



L&B Life Rating: L80 B10, 60 000 hrs

# Extras

## Optional extras



IES files available.



VOLTpro

### Effective Lumen Output After Warm-up

We adhere to industry best practices in providing accurate Effective Performance Data (Lumens, Watts, and L&B) that account for driver and LED thermal losses during the warm-up period.

To ensure precise measurements, we conduct Energy and Photometric Testing only after the LED within the fitting has been powered on long enough to reach a stable and constant lumen output—achieving thermal equilibrium at an ambient temperature ( $T_a$ ) of 35°C.

Unfortunately, some suppliers misrepresent efficacy by inflating lumen values 10–20% above the true effective output. This is often done by using raw LED photometric data, which:

- Excludes driver losses (typically 2–5%)
- Ignores thermal adjustment losses, which can take 20–240 minutes and account for 7–15% reduction in output

Given these factors, the actual Effective Lumen Output is often lower than raw values suggest. In extreme cases, some suppliers report only raw LED values, completely disregarding real-world performance.

For transparency and accuracy, we ensure our data reflects true effective lumens, providing reliable performance metrics you can trust

**5 year warranty:**  
Please visit  
[www.energywise.co.za](http://www.energywise.co.za)



Designed and  
Manufactured by

**energywise**

**Better Light  
Through Research.**

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Physical address: Unit 5 Edstan Business Park, 2 Ibhumbesi Road, Riverhorse Valley, Durban, South Africa, 4017

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



**MASC  
CERTIFIED**



**MADE IN  
SOUTH AFRICA**

# Energywise lighting options

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

## INDUSTRIAL

						
<b>Bay XP</b> Factories, Warehouses, Cold rooms etc.	<b>Bay XL</b> Factories, Warehouses, Supply rooms etc.	<b>Bay XE</b> Factories, Warehouses, Supply rooms etc.	<b>DUSTPROOF</b> Warehouses, Car parks, Corridors.	<b>VANDAL-RESISTANT DUSTPROOF</b> Car parks, Corridors, Mills.	<b>PUREBox Panel</b> Medical & laboratory, Clean rooms etc.	<b>Torch Bulkhead</b> Heavy industrial areas.
<b>Standard</b> Height: 6-25m IP: 65 Temp: 40/65°C	<b>Standard</b> Height: 3-20m IP: 40 Temp: 30°C	<b>Standard</b> Height: 6-25m IP: 20 Temp: 30°C	<b>Standard</b> Height: 2.5-8m IP: 66 Temp: 35°C	<b>Standard</b> Height: 2.5-8m IP: 66 Temp: 35°C	<b>Standard</b> Height: 3-5m IP: 54 Temp: 35°C	<b>Standard</b> Height: 6-25m IP: 65 Temp: 30°C





						
<b>Pod IP65</b> Tamperproof and nearly unbreakable.	<b>Bay XF</b> Get the job done, Glare-Free.	<b>Plate XP</b> Swiss army knife of lighting.	<b>TOBLO bay</b> Factories, Warehouses, Supply rooms etc.	<b>Bay XT</b> Distribution centers, Warehouses etc.	<b>Retrofit 44</b> Converting old HID tech to LED	<b>Retrofit 22</b> Converting old HID bulkhead to LED
<b>Standard</b> Height: 2-5m IP: 65 Temp: 35°C	<b>Standard</b> Height: 2-10m IP: 20 Temp: 30°C	<b>Standard</b> Height: 6-25m IP: 65 Temp: 35°C	<b>Standard</b> Height: 6-25m IP: 40 Temp: 40/30°C	<b>Standard</b> Height: 3-20m IP: 40 Temp: 35°C	<b>Standard</b> IP: 00 Temp: 30°C	<b>Standard</b> IP: 00 Temp: 35°C

## RETAIL & COMMERCIAL

						
<b>LEDrail 1000</b> Shops, Production facilities, parking	<b>LEDrail 2000</b> Shops, Sheds, Underground parking	<b>LEDrail 4000</b> Retail, board rooms, department stores.	<b>LEDrail 8000</b> Retail, board rooms, department stores.	<b>LEDrail 4-100</b> All retail outlets, showrooms, offices etc	<b>LEDrail 4LCO</b> Shops, Production facilities, showrooms etc	<b>Linear 4-300</b> Glare free precision lighting
<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 30°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 30°C	<b>Standard</b> Height: 2.5-6m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-6m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 35°C

						
<b>Downlighter</b> Offices, retail and hospitality settings.	<b>Panel 595x595</b> Offices, healthcare, educational facilities.	<b>Panel 1195x595</b> Offices, commercial, educational settings.	<b>EX Bay XP</b> Factories, Warehouses, Mills, Marine etc.	<b>EX DUSTPROOF PREMIUM</b> Warehouses, Car parks, Mills.	<b>EX DUSTPROOF</b> Warehouses, Car parks, Corridors, Mills.	<b>EX Pod</b> Factories, Mines, Marine etc.
<b>Standard</b> IP: 40 Temp: 30°C	<b>Standard</b> IP: 40 Temp: 30°C	<b>Standard</b> IP: 40 Temp: 30°C	<b>Standard</b> Height: 6-25m IP: 65 Temp: 40°C	<b>Standard</b> Height: 2.5-8m IP: 65 Temp: 35°C	<b>Standard</b> Height: 2.5-8m IP: 65 Temp: 35°C	<b>Standard</b> Height: 2-5m IP: 68 Temp: 40°C

## EARTH

			
<b>EX Torch</b> Heavy industrial areas.	<b>EARTHbay</b> Horticulture, Open areas etc	<b>EARTHplate</b> Horticulture, Rack/ Under shelf etc	<b>EARTHpod</b> Horticulture, Propagation, Racks etc.
<b>Standard</b> IP: 65 Temp: 40°C	<b>Standard</b> From canopy: 0.5-2m IP: 65 Temp: 35°C	<b>Standard</b> From canopy: 0.4-2m IP: 65 Temp: 35°C	<b>Standard</b> From canopy: 0.2-1m IP: 65 Temp: 35°C

Lights on. Job done.

**energywise**

Better light  
through research.