

EXPLOSION PROTECTED

LED BULKHEAD



IP65 EXPLOSION PROTECTED TITAN BULKHEAD

Approved for Hazardous Locations
Zone 1, Zone 21 & Zone 22

- **46W & 54W**
High Efficiency Output
- **Zones 1 / 21** (Gas & Dust)
- **Zones 2 / 22** (Gas & Dust)
- **IK10** – Impact Resistant



ZONE 1



ZONE 21



ZONE 22



IP65

- Approved for Hazardous Locations
- Rugged Aluminum Housing
- Corrosion Resistant Finish
- Safe and Easy Installation



Gas Platforms



Oil & Gas Plants



Industrial Facilities



Dusty Environments





HAZARDOUS AREA TERMINOLOGY & HAZARDOUS (HAZLOC) ZONES - EXPLAINED

(ATEX / IECEx / PESO)

HAZARDOUS ATMOSPHERE

(EXPLOSIVE GAS / VAPOUR / DUST)

HAZARDOUS ZONES

ZONE
0

ZONE 0 - CONTINUOUS GAS

Explosive gas atmosphere present continuously or for long periods

ZONE
1

ZONE 1 - FREQUENT GAS

Likely to occur during normal operation

ZONE
2

ZONE 2 - OCCASIONAL GAS

Not likely - If it occurs, it will be for short duration



GAS GROUPS (BY TYPE OF GAS)

IIC

→ Hydrogen, Acetylene

HIGHEST RISK

IIB

→ Ethylene

IIA

Propane, Methane

→ Lower Risk

TEMPERATURE CLASSES (T-CLASS)

T1 - 450°C

(Max Surface Temp)

T2 - 300°C

T3 - 200°C

T4 - 135°C

T5 - 100°C

T6 - 85°C

High

(Ignition Temp) ↓

STANDARDS & CERTIFICATION



IEC 60079 / ATEX Directive



IECEx Scheme



PESO (India)



Compliance **Mandatory**
for Hazards

PROTECTION CONCEPTS



Ex d - Flameproof



Ex e - Increased Safety



Ex i - Intrinsic Safety



Ex p - Pressurization



Ex m - Encapsulation

ENCLOSURES & COMPONENTS (SS) - CERTIFIED



Enclosure



Terminal
Block

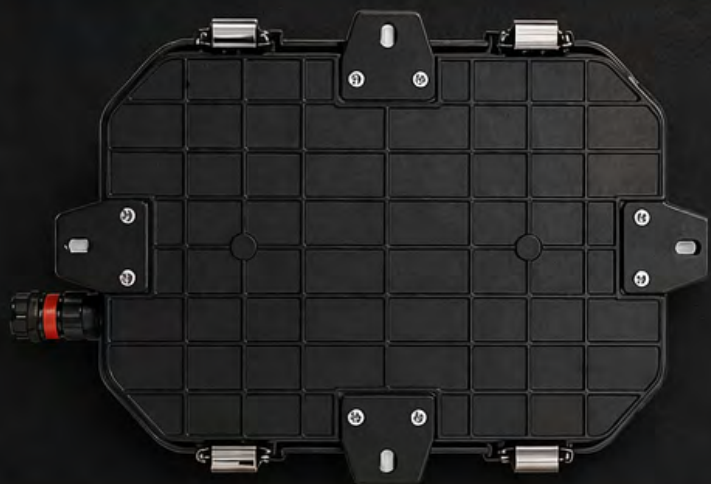


Cable
Gland



Lamp

PHARMA • OIL & GAS • MARINE • PETROCHEMICAL - USE ATEX/IECEx/PESO CERTIFIED STAINLESS STEEL ENCLOSURES & COMPONENTS



EX eb mb IIC T4 Gb

EX db IIIC T135°C Db

LED BULKHEAD



SPECIFICATION	46W	54W
POWER (W)	46W	54W
AC INPUT POWER (V AC)	220 - 240V AC 50Hz	
POWER FACTOR (PFC)	0.98	
TOTAL LUMINOUS FLUX (lm)	5980lm	6858lm
LUMINOUS EFFICACY (LM/W)	130lm/W	127lm/W
CORRELATED COLOUR TEMPERATURE (°K)	3000K / 4000K / 5000K / 6500K	
COLOUR RENDERING INDEX (RA)	80Ra	
LUMEN MAINTENANCE	70,000 Hrs (L80 B20) @ 25°C	
PROTECTION RATING	IP65	IK10
LUMINAIRE HOUSING	Aluminium Casing / Stainless Steel latches / High Impact polycarbonate Diffuser	
EX MARKING	Ex eb mb IIC T4 Gb; Ex db IIIC T135°C Db	
SANS CERTIFICATION	• SANS 60079-0: 2019 General requirements • SANS 60079-7:2023 Explosive Atmospheres - part 7 • SANS 60079-18: 2022 • SANS 60069-31: 2023 • ARP0108:2018 • NCoP2398:2022 National code of Practices for Machinery in Hazardous locations	





130 lm/W
HIGH EFFICACY



IP65
WATER & DUST
PROTECTION



IK10
MAXIMUM IMPACT
RESISTANCE



EX RATED
FOR HAZARDOUS
ENVIRONMENTS

APPLICATIONS


MINING

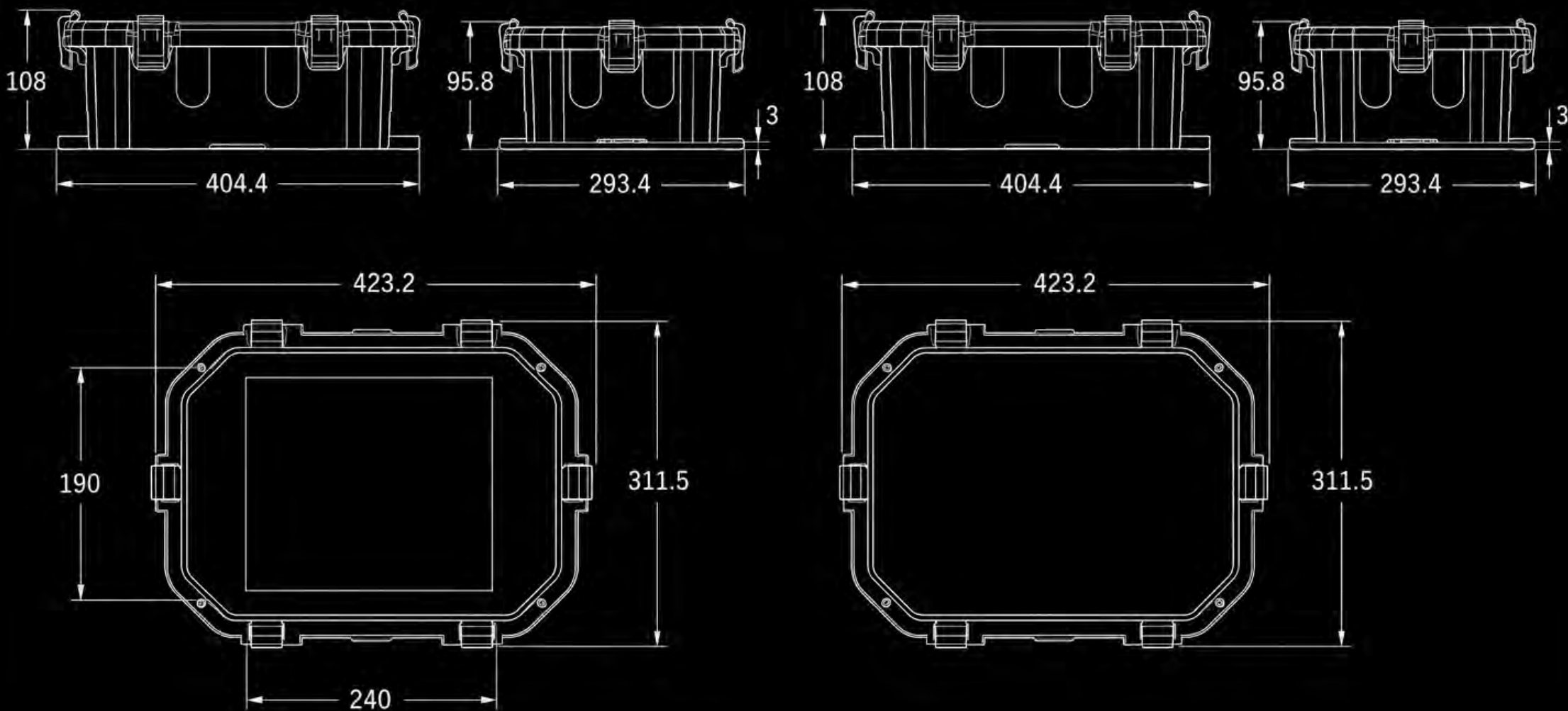

OIL & GAS


CHEMICAL


INDUSTRIAL

ZONE LED

WEIGHT: 6.2KG



PRODUCT:
RUGGED PROTECTIVE CASE

MATERIAL:
ALUMINIUM

COLOUR:
BLACK

DIMENSIONS:
ALL DIMENSIONS IN MM

WEIGHT:
6.2KG

ZONE LED

CONTACT US

WE'RE HERE TO HELP.



WEBSITE

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