

# PHAKAMISA Safety Products

**CONTACT** 

**Phillip Louwrens 083 256 1413** 

plouwrens@telkomsa.net

Riekert Louwrens 083 391 4273

riekertl@telkomsa.net

P.O. Box 6822 Oberholzer 2502

Fax: (018) 788 2271



# PHAKAMISA Safety Products

#### **Introduction**

Phakamisa Engineering has been in Business from 2007.

We have a proven track record within the Mining Industry. We have been providing the Mining Industry with various products and services, always ensuring that our Customer's needs are at the top of our priority list.

We, as a Company, are committed in providing our Customers with the best Product at the best price ensuring Quality Service and on-time deliveries at all times.

#### Mission Statement

We Believe in Providing our Customers with High Quality Workmanship, Quick Service, and On-time Deliveries regardless of size and location.

#### Environmental, Occupational Health and Safety Policy Statement

Phakamisa fully acknowledge moral responsibilities towards the environment and wellbeing of all those affected by the company's activities.

Phakamisa regards the Environmental, Occupational Health and Safety being affected by our operations to be of vital importance and committed to: "Achieve and maintain the highest practicable level of Environmental and Occupational Health and Safety control in all areas of the Company's operations".

Phakamisa promote the importance of the Environmental and Occupational Health and Safety Policies in the workplace.

#### Phakamisa will:

- \* Strictly comply with all applicable legal international regulations through designing, constructing and controlling projects to practice safe work environment and reduce the impact of its operations on air, water, land and natural resources.
- \* Minimize workplace exposure to hazards, prevent injuries, incidents and damage by providing appropriate training to personnel to ensure Environmental, Occupational Health and Safety issues and responsibilities are clearly understood.
- \* Regularly review its operational control to continually improve the Environmental, Occupational Health and Safety profile of the organization.
- \* Prevent pollution through effective control and conservation of natural resources through re-use, recycle and reduction of energy consumption.
- \* Ensure continuous improvements in our activities to eliminate and prevent any hazards associated with our work.

# INTRINSIC SAFE, RECHARGEABLE, SURROUND

162 LED U/G\_LIGHT SYSTEMS

EFFORTLESS, EASY
ILLUMINATION IN THE STOPE
PANEL

The Storage/Charging Box is placed at the Face Winch - the Charging Box is connected to the 32VAC auxiliary plug on the Winch Starter Box supplying power to the Multi- Charger.

The Rechargeable Surround LED Lights are placed inside the lockable Storage/Charging box and connected to the Charger Cables to be charged while stored safely.



#### NO NEED TO REMOVE LIGHT UNITS TO THE WAITING PLACE OR STORE TO BE CHARGED

#### **SYSTEM CONSISTS OF:**

- 1 x Steel Carry, Storage & Charging Box







- 4 or 5 x Intrinsic Safe, Li-ion, Rechargeable 162 LED Light Units

#### **PRODUCT SPECIFICATION DATA**

#### **UNIT SPECIFICATION DATA**

- High Brightness
- Clear Polycarbonate Sleeve
- Light Weight and Rugged
- Low heat source
- Low power consumption (400mA/unit)
- High efficiency (+29lux @ 2m)
- Shock resistant
- Splash proof
- Steel hook for hanging
- The switch on the top for easy turn on/off.

#### **4 UNIT SYSTEM**

32VAC 4 UNIT RECHARGEABLE SURROUND LED STOPE LIGHTING SYSTEM COMPLETE (Consists of: 4 x Li-Ion Rechargeable 162 LED Light Units, 1 x Carry Box, 1 x Charge Box with 4 delivery connections [fixed inside Carry Box])

#### **LED SPECIFICATION DATA**

- 162 x 5050SMD LEDs
- Approximately 1120 Lumens
- LEDs rated for 75,000 Hours of working life

#### **BATTERY SPECIFICATION DATA**

- 11.1v 3800MAh. Li-ion battery pack
- Overload protection
- No Memory Effect
- Recharges In 5 8 Hours
- Working time: 8 to 9 hours when fully charged
- 220 or 110 or 32 VAC Input Charger

#### **5 UNIT SYSTEM**

32VAC 5 UNIT RECHARGEABLE SURROUND LED STOPE LIGHTING SYSTEM COMPLETE (Consists of: 5 x Li-lon Rechargeable 162 LED Light Units, 1 x Carry Box, 1 x Charge Box with 5 delivery connections [fixed inside Carry Box])





SANS 60079



PELAKAMISA

Safety Products

INTRINSIC SAFE, COMPACT, RECHARGEABLE,

# U/G LED LIGHT SYSTEMS

The Compact, Rechargeable, LED Light Systems consist of Robust, Li-ion Rechargeable LED Strip Light Units and powder coated mild steel, lockable, rapid charging boxes with individual charging points and charging status indication lights.



The Light Systems will effectively illuminate the work area and will improve visibility





Low Power
Illumination Mode
82 hours



Normal Power
Illumination Mode
8 hours 30 min

Improved visibility will assist with the identification of hazardous conditions and situations

Robust, Compact, Lightweight, Cost Effective, Highly Efficient Rechargeable Underground Lighting Systems

The RED, AMBER & GREEN Warning/Indication LED Lights can indicate safe or unsafe conditions/areas or can be used to indicate different tasks performed during the Room & Pillar mining process.















Warning/Indication Mode

The system's Charging Boxes are available in 2 Unit, 3 Unit, 4 Unit, 5 Unit and 6 Unit Charging Boxes





SABS Approved INTRINSICALLY SAFE



PHAKAMISA Safety Products

# LED FLOOD LIGHTS

# Keep your CRITICAL AREAS constantly ILLUMINATED while SAVING POWER and drastically reducing Maintenance and Labour Costs

Manufactured using only the highest quality components, the High Intensity LED Flood Light is designed specifically for industrial applications where reliability and performance are paramount.

Able to work side by side with people in the harshest of environments it is ideally suited for most situations where bulb maintenance is difficult or impossible.

Every component of the High Intensity LED Flood Light has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications

# 2 YEAR WARRANTEE



#### 10Watt High Power LED Flood Light

 Working Voltage:
 85 - 240VAC

 Power:
 10W

 Power factor:
 PF>0.9

 Lumens
 +940Lm

 Life Time:
 50000Hours

Viewing Angle: 120°

Size: 115x85x90mm



#### 50Watt High Power LED Flood Light

Working Voltage: 85 - 240VAC
Power: 50W
Power factor: PF>0.9
Lumens +4700Lm
Life Time: 50000Hours

Viewing Angle: 120°

Size: 290x240x140mm



#### 150Watt High Power LED Flood Light

Working Voltage: 85 - 240VAC
Power: 150W
Power factor: PF>0.9
Lumens +14100Lm
Life Time: 50000Hours
Viewing Angle: 120°

Size: 425x325x180mm



#### 30Watt High Power LED Flood Light

 Working Voltage:
 85 - 240VAC

 Power:
 30W

 Power factor:
 PF>0.9

 Lumens
 +2820Lm

 Life Time:
 50000Hours

Viewing Angle: 120°

Size: 125x185x125mm



#### 100Watt High Power LED Flood Light

Working Voltage: 85 - 240VAC Power: 100W Power factor: PF>0.9 Lumens +9400Lm Life Time: 50000Hours

Viewing Angle: 120°

Size: 425x325x180mm



#### 200Watt High Power LED Flood Light

Working Voltage: 85 - 240VAC
Power: 200W
Power factor: PF>0.9
Lumens +18800Lm
Life Time: 50000Hours

Viewing Angle: 120°

Size: 455x325x200mm



PHAKAMUSA

Safety Products

# LED RIBBON ROPE LIGHTS

### 220VAC ~ 14,4Watt/m LED RIBBON ROPE LIGHT







Incandescent Bulbs

LED Ribbon Rope Light

EFFECTIVELY AND EFFICIENTLY ILLUMINATING TRAVELLING WAYS,
CHAIRLIFTS, CONVEYER BELTS, HAULAGES ETC. TO IMPROVE VISIBILITY AND
IDENTIFICATION OF HAZARDOUS CONDITIONS AND SITUATIONS

### 220VAC ~ RED & GREEN LED RIBBON ROPE LIGHT





220VAC LED Ribbon Rope Light Red



220VAC LED Ribbon Rope Light Green

AN EFFECTIVE AND EFFICIENT VISUAL INDICATION OF SAFE AND UNSAFE AREAS AND CONDITIONS.

RED: INDICATING AND WARNING ABOUT DANGEROUS AREAS, FOULING MARKS, TIP AREAS, HAZARDOUS CONDITIONS AND SITUATIONS ETC.

GREEN: INDICATING TRAVELLING WAYS, WALKWAYS, REFUGE BAYS ETC.

Power Cord is supplied with either a 2Pin Plug, E27 Edison Screw or Female Kettle Plug Adaptor



Power Cord with 2Pin Plug Adaptor



Power Cord with E27 Edison Screw Adaptor



Power Cord with Female Kettle Plug Adaptor



PHAKAMISA Safiatw

Products

# 2 YEAR WARRANTEE

# LED TUBE LIGHTS

The solution to the inefficiency of standard fluorescent T8 tube lights has arrived.

(0.00 to 10.00 to 10.

Simply replace your existing fluorescent bulbs and enjoy 55%+ savings on electricity consumed. Our LED T8 Tube Lights can be installed with ease into existing sockets by removing or bypassing the existing ballast. A thick AL circuit board enclosed in a clear PC tube and an Aluminum extruded back heat sink give these T8 replacements the durability and quality that our customers have come to expect from our products. SMD LEDs (3014SMD, Epistar Chip) transfer heat better than standard fluorescent bulbs which increases their working life. These LED T8 Tube Lights contain NO MERCURY, emit NO RF interference and are manufactured under ROHS

4 Foot (1200mm) T8 LED Tube Light

**Power Consumption:** 

18W Power

 LED Amount:
 288

 Lumen Flux:
 1600-1850lm

 Size:
 1200\*30mm

 Weight:
 0.46kg

5 Foot (1500mm) T8 LED Tube Light

Power Consumption: 22W LED Amount: 360 Lumen Flux: 1800-2100Im

 Size:
 1500\*30mm

 Weight:
 0.52kg

# IP65 VAPOUR PROOF, DUST PROOF, CORROSSION PROOF LIGHT FITTINGS

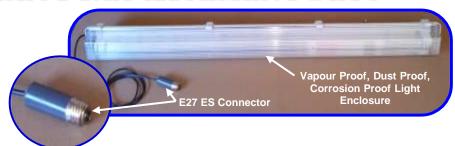
ABS Base Clear Polycarbonate Diffuser Cover Vapour Proof Dust Proof Corrosion Proof



4 Foot (1280mm) and 5 Foot (1580mm) - Single and Double Tube Units Available

## **E27/ES DIRECT REPLACEMENT SETS**

The E27 / ES Direct Replacement Set can be installed with ease into existing E27 Edison Screw Sockets



7 ~ Simply unscrew the E27 Incandescent Light Bulb



2~ Screw in the E27 ES Connector of the Direct Replacement Set





# LED RECHARGEABLE

PORTABLE WORK LI

WATERPROOF 10W

combination of a high quality powder coated steel cradle stand and superior quality 10&20W, IP65, Rechargeable LED Flood Lights to create the perfect working illumination.

Perfect for anyone requiring a robust, mobile, bright, waterproof and energy efficient flood light in their working environment.

The battery can be charged from empty in ±5 hours and once fully charged, will last an incredible 4/6 hours at full brightness.

ECHARGEAB



**lumen** 

960 lumen



- IP65 Waterproof Protection
- Non Slip Rubber Handle
- -10W: 7.4V 4.4AH Lithium Battery
- -20W: 7.4V 8.8AH Lithium Battery
- *130<sup>o</sup> Beam Angle*
- 12VDC Car Charger
- 240VAC Charger

- Charge Time: 4-5 hours

- Working time: 10W - 6 hours

20W - 8 hours

- Net Weight: 10W: 850g 20W: 1920g

- Certification: CE. ROHS





Charging Socket



Small and Lightweight





# LED HIGH BAY LIGHTS





maintenance costs, and a superior quality of light.

100W 150W Model: >80 Colour Rendering Index (CRI): Colour Temperature (Kelvin): 6000K IP Rating (Ingress Protection): **IP56 Rated Lifetime:** >40000 hrs **Beam Angle Degrees:** 120° **Operating Temperature:** -10°C - 55°C Warrantee: 2 years Number LEDs: **Luminous Flux:** 8465lm 12695lm



# 200WATT, 22 000 LUMEN UFO HIGH BAY LIGHT



An extremely bright, 22 000 Lumen, 200 Watt, Dimmable LED UFO High Bay Light.

Designed specifically to replace conventional lighting in a wide variety of industrial applications, both indoor and outdoor.

The LED High Bay lights were designed to meet the most demanding specification criteria while offering maximum energy savings, reduced maintenance costs, and a superior quality of light.

#### Specs:

Replaces 600 Watt Metal Halide 60% Energy Reduction

22,000 Lumens

**Cool White 6000K Colour Temperature** 

**IP65-Rated** 

**DLC, ETL Certified** 

50,000 Hour Operating Life









PELATRAMOISA

Safety Products

# IP65, RECHARGEABLE, 10W LED PORTABLE WORK LIGHT with MOUNTING MAGNET

A combination of a high quality powder coated steel cradle stand and superior quality 10W, IP65, Rechargeable LED Flood Light with a Thermoplastic Rubberized Base Magnet to create the perfect working illumination.

Perfect for anyone requiring a robust, mobile, bright, waterproof and energy efficient work light in their

The battery can be charged from empty in ±5 hours and once fully charged, will last an incredible 6 hours at full brightness.

#### Specifications:-

Working Power: 10W
LED Light Source: Epistar COB
Lumen output: 960lm
IP Rating: IP65
Beam Angle: 120°

Power supply: Li-ion 7.4V, 4,4Ah

12VDC Car Charger 240VAC Charger

Charge Time:4-5 hoursWorking time:6 hoursNet Weight:850g

High Quality Powder Coated Steel Cradle Stand

> Thermoplastic Rubberized Corrosion Resistant Base Magnet

Non Slip Rubber Handle & Base End Caps







960

lumen

#### Features:-

- Durable Aluminium Light Housing
- Robust Tempered Glass Lens
- High Efficiency Reflector
- High Quality Powder Coated Steel Cradle Stand
- Thermoplastic Rubberized Corrosion Resistant Base Magnet
- IP65 Waterproof Protection
- Non Slip Rubber Handle & Base End Caps
- Rotates 100° Up/Down & 360° Left/Right
- Small, Compact & Lightweight













PHAKAMISA Safety



# MAGNETIC, RECHARGEABLE, PERSONAL, PORTABLE LED WORK LIGHT

The Perfect Compact, Rechargeable, Robust, Portable, Bright, Waterproof and Energy Efficient Work Light







#### Specifications:-

Led Type: 4 x Cree 3W LED

Power: 12W Magnetic Base

Switch Mode: Low/ High/ SOS

Brightness: High - 800lm, Low - 400lm

Color Temperature: 6000-6500K

Waterproof: IP67 Beam:Spot / Flood

Material: Aluminium Alloy Housing, PC Lens Battery: 3.7V 4400mAh Li-lon Battery Rechargeable

Life span: 10,000 Hours

Battery Work Time: 5 hours low /2 hours high

Battery Charge Time: 6-8 hours Battery Charging: USB Port Size: L122 x W97 x H103 mm





PHARAMISA

Safety Products

### **32V LED WINCH LIGHTS**

#### ac 15W ES/ **LED** Winch Light



**Working Voltage:** 32VAC Power: 15W +1480Lm Lumens **IP65 IP Rating:** Life Time:

>30 000Hours



# 32VAC <u>10W</u> LED Flood Winch Light

**Light Source: Epistar LED Working Voltage:** 32VAC 10W Power: +900Lm Lumens **Fixture Efficiency:** >90%

White(2700 - 7000K) **Emitting Colour:** >30 000Hours Life Time:

120° Viewing Angle:



# <u>/</u> IP66 LED Winch Light



32VAC Working Voltage: 12W Power: +1260Lm Lumens IP Rating: **IP66** >30 000Hours Life Time:

# 32VAC 15W IP66 LED Winch Light

Working Voltage: 32VAC Power: 15W Lumens +1590Lm IP Rating: **IP66** >30 000Hours Life Time:



# 32VAC LED Ribbon Rope Winch Light



Length: Working Voltage: 32VAC

Watt/Meter: 14,4W@32VACW

**Lumens per Meter:** +1020Lm IP Rating: **IP65** 

>30 000Hours Life Time:

- Very easy to install. Connects to current winch stop-start box's 32V auxiliary output socket
- Illuminates area Improves visibility
- Low Maintenance
- Ensures compliance to Regulation 15.3.1 (Illumination of machinery)



# ALUMINIUM FEMALE KETTLE SOCKET BOX



Specifications

- Cast Aluminium Enclosure
- Lid with IEC C13 Chassis Female 15A/250V 3PIN Inline Socket Plug

Also supplied with ES/E27 Adaptors

- Robust & Corrosion Resistant

595235555555555555555

- Mechanical glands
- -IP65 Rating

We also fit the Aluminium Kettle Socket Boxes, to customer specified spacing and cable requirement, to make up string sections

# IP65, 4 FOOT, TWIN <u>LED</u> TUBE LIGHT WITH KETTLE PLUG ADAPTOR

**Specifications** 

Vapour Proof, Dust Proof, Corrosion Proof Light Enclosure

Size: 4 Foot (1275 x 134 x 98mm)

Volt: 110V/220V

Lamp: 2 x 20W T8 LED Tube Light

Base: ABS

Cover: Clear Polycarbonate Diffuser

IP Rating: IP65 (Vapour Proof Dust Proof Corrosion Proof)

1m Cable with Female Kettle Plug Connector

4 Foot (1200mm) T8 LED Tube Light (2 Year Warranty)

Input: 85 - 260VAC

Power Consumption: 20W

LED Amount: 288

 Lumen Flux:
 1920-1990lm

 Size:
 1200x30mm

 Weight:
 0.46kg

# IP65, 4 FOOT, TWIN <u>FLUORESCENT</u> TUBE LIGHT WITH KETTLE PLUG ADAPTOR

#### **Specifications**

Size: 4 Foot (1275 x 134 x 98mm)

Volt: 220V Also supplied with Ballast: Electronic ES/E27 Adaptors

Lamp: 2 x 36W T8 Fluorescent Tube Light

Base: ABS

Cover: Clear Polycarbonate Diffuser

IP Rating: IP65 (Vapour Proof Dust Proof Corrosion Proof)

1m Cable with Female Kettle Plug Connector



# ES/E27ALUMINIUM LIGHT BOX



Clear Polycarbonate Lens for the Aluminium Light Box is also available



Aluminium Light Box with Polycarbote Lens fitted

The casted Aluminium Light Box, fitted with an Edison Screw Lamp Holder, can accommodate Incandescent Light Bulbs, Compact Fluorescent Energy Saving Light Bulbs and LED Light Bulbs.

We also fit the Aluminium Light Boxes, to customer specified spacing and cable requirement, to make up lengths of lighting cable.





PELATRAMISA

Safety Products



# **SOLAR LED STREET LIGHTS**



The 12W & 24W Solar LED Street Lights come as complete units including LED Street Light, Solar Panel, Battery, Wall Mounting Bracket and Pole Mounting Bracket.

#### WHY USE SOLAR POWERED LIGHTS?

In many instances lighting at night can be a costly and complicated matter.

Issues such as no available grid power or expensive trenching and cabling requirements can prevent adequate lighting being installed.

Solar Powered lights are fully self-contained, so when you choose to install one there are no trenches, no external cabling and no need to connect to the main power grid.

POWER	IP RATING	SOLAR PANEL	LED TYPE	BRACKET	BATTERY TYPE	WARRANTY
12W	IP65	12W polycrystalline	12x1W SMD LED	Pole mounting and wall mounting bracket included	Li-Ion	3 years
24W	IP65	24W polycrystalline	24x1W SMD LED	Pole mounting and wall mounting bracket included	Li-Ion	3 years







220VAC Charger



12VDC Car Charger

3.6V, 3500mAh, NiMh Rechargeable Battery



This 300 Lumen LED Flashlight features an intense beam of light that projects an output of 150 meters. The flashlight is constructed of aircraft grade anodized aluminum and can withstand a 1 meter drop test. This flashlight contains a rechargeable battery that permits a 4+ hour run time with each charge. This aluminum flashlight has an optimized reflector system that allows for maximum light output. The LED flashlight comes complete with both AC and DC charging adaptors, allowing for the capability to charge the flashlight in the office or in the car.

Corrosion Resistant / Water Resistant / Shock Resistant



# ILLUMINATED INFORMATION SIGNS ILLUMINATED, FLASHING, ACRYLIC LED DISPLAY SIGN WITH BATTERY BACK-UP



Wording to customer's specification





#### **Specifications**

Battery Type: Rechargeable 12V, 2.4Ah Emergency Time: More Than 8 Hours Supply Voltage: 220-240VAC 50/60Hz

**Housing Material: Powder Coated Mild Steel** 

Panel: Plexiglass Panel Dimensions: 360x305x70mm

### **4FT ILLUMINATED INFORMATION SIGN**



he light units are used as Illuminated Information Signs with a Vinyl Stickers on the clear diffuser cover sides

4 Foot (1200mm) T8 LED Tube Light

Power Consumption: 18W LED Amount: 288

 Lumen Flux:
 1700-1950lm

 Size:
 1200x30mm

 Weight:
 0.46kg

Vapour Proof, Dust Proof, Corrosion

Proof Light Enclosure
Size: 4 Foot (1280mm)

Volt: 110V/220V

Lamp: 1 x 18W T8 LED Tube Light

**ABS** Base

**Cover: Clear Polycarbonate Diffuser** 

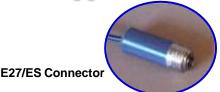
Vapour Proof Dust Proof Corrosion Proof



555555555555555555555555555555



#### Also Supplied with E27/ES or Kettle Plug Connector



Kettle Plug Connector



PHAKAMOSA

Safety Products

**SOLO LED STROBE LIGHT** 



Conspicuous, Highly Visible, flashing Strobe lights for:

- Refuge Chambers
  - Vehicles
- Hazard areas etc.





- 12VDC /24VDC /110VAC /220VAC

- Low current consumption
- Shock and vibration resistant (Impact Resistant Lens & Enclosure)
- Waterproof Cable Gland Entry
- Over Voltage Protection
- Simple Screw Mount Base
- 15 Selectable flash-rate/Pattern combinations as well as steady on option.
- Life expectancy 150 000 hours @ 70% duty cycle.
- Dimensions: 142mm high x 116mm diameter base
- LED colours: Red, Green, Yellow, Blue or White.

### AX35B XENON STROBE LIGHT



- 12V DC 150mA 24V DC - 60mA 110V AC - 28mA 220V AC - 14mA
- Candlepower: 100 000
- Flashes per min.: 120
- Intensive weatherproof Xenon Strobe
- Acrylic lens with ABS base
- Base Mounted
- · Colours: Red, Green, Yellow, Blue & Clear

## AX26 XENON STROBE LIGHT

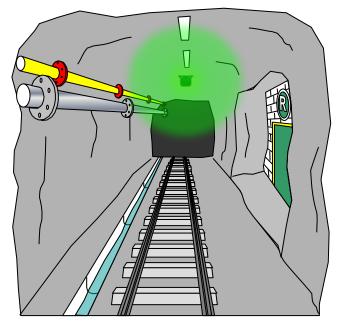


- 24V DC 400mA
   110V AC 100mA
   220V AC 50 mA
- Candlepower: 900 000
- Flashes per min.: 120
- · Acrylic lens with ABS base.
- Base Mounted
- Super-intensive light
- · Colours: Red, Green, Yellow, Blue or Clear



PHAKAMISA Safety Products

# REFUGE BAY INDICATION LED WARNING LIGHT & SIREN COMBO





DUAL COLOUR LED LIGHT
AND SIREN UNIT
Placed outside Refuge
Chamber to indicate
position of refuge bay to
workers and Rescue
Personnel

CONTROL SWITCH AND
BATTERY BACK-UP UNIT
Placed inside Refuge Chamber
to supply power and to activate
the Emergency Mode of the
LED Light & Siren Unit



The Emergency LED Light & Siren Combo was specifically designed for Refuge Bay location indication. The system consists of a Dual LED Light & Siren Unit with 2 x Dual Colour (Green/Red) 30LED Lights and 2 x 85db Sirens (placed outside the Refuge Bay at a clearly visible position) and a Control Switch and Battery Back-up Unit with a Twist-to-Release Emergency Push Button Control Switch and Battery Back-up (installed inside the Refuge Bay)

When the system is in Normal Mode (no emergency) the green LED light will continuously flash (or constant ON) indicating the position of the Refuge Bay entrance to all personnel in the area.

In case of any emergency where the Refuge Bay is utilised for safeguarding personnel, the Emergency Switch on the Control Switch and Battery Back-up Unit inside the Refuge Bay is activated to switch the system to Emergency Mode. This will activate the Red LED Light, which will continuously flash, and the Siren, which will sound at 2 second intervals. The system will visually and Audibly indicate the position of the Refuge Bay to any rescuers.

Depending on the rechargeable back-up battery (1,4Ah or 3.8Ah) the Emergency LED Light & Siren Combo will still work continuously for ± 5 -10 hours during power failures

### **SPECIFICATIONS Housing Material:**

- Robust polycarbonate housings Tamper Proof LEDs:
- 30 Bright Green LEDs Rated 50,000 Hours Switching:
- IP64 Latching, Twist-to-Release, Push Button Switch Battery:
- 1,4 AH or 3.8AH, 12 volt sealed lead-acid

#### **Battery Performance:**

- 1.4AH: ±5 hours operation on a fully charged battery
- 3,8AH: ±10 hours operation on a fully charged battery

#### **Charger:**

-110/220V AC Supply voltage - 13.2V DC Charge voltage. The control board has low voltage protection and overcharge protection to prevent deep discharge of, and damage to battery.

Please Note!

This system is also available as a SINGLE COLOUR System.

Normal & Emergency Mode both Green Light

Normal & Emergency Mode both Red Light

#### **NORMAL MODE**

Green LED light flashes to indicate position of refuge bay to workers



#### **EMERGENCY MODE**

Red LED light flashes and the high pitch buzzers sounds at 2 seconds intervals to indicate position of refuge bay to rescue teams.





PHAKAMISA Safety

# CRITICAL AREA LED LIGHT WITH BACK-UP BATTERY

KEEP ALL HIGH RISK AND CRITICAL AREAS SUCH AS TIPS, CROSSCUTS, MINI SUB-STATIONS, HOIST ROOMS, REFUGE BAYS etc. ILLUMINATED DURING POWER **FAILURES AND EMERGENCY SITUATIONS** 



The LED Light will automatically stay on in case of a power failure and will illuminate the area for ±7 to10 hours

- With active power supply the Battery will be on Permanent Charge while the LED Light illuminates the area.

- In case of any Power Failure or Power Cut to the supply power the LED Light will continue illuminating Critical Areas for up to 10 hours.

(The Back-Up Lights can also be made to be OFF with active power supply and to switch ON automatically during any power failure)



10W LED Emergency **Back-Up Flood Light** 



30W LED Emergency

30W LED Emergency

Back-Up Flood Light -

Separate Units

**Back-Up Flood Light** 

The Critical Area Back-Up Flood Lights can be supplied as Fixed Light & Battery Units or as Separate Light & Battery Units connected to each other with a cable (cable length according to customer's specification)

#### **SPECIFICATIONS**

Power: 10W; 30W Voltage: 12V

. Lumens: 10W - 880lm; 30W - 2460lm . LEDs: Epistar(CREE) SMD LED

. Beam: Flood beam . Long life: 50000 hours

. Working temperature: -40°C~ 65°C

. Body: Aluminium housing, stainless steel bracket, Toughened Plexiglas lens

#### **BATTERY & ELECTRONICS**

. Battery: 12 Volt Sealed Lead Acid

. Battery Capacity: <u>10W</u> - 7.2A/h; <u>30W</u> - 24A/h

. Battery Performance: ± 7-10 hours. To prevent deep discharge of, and damage to battery, the low voltage disconnect device trips at 9.5V. Overcharge protection

. Charger: 110/220V AC Supply voltage - 13.2V DC Charge voltage

. Housing Material: Polycarbonate



# 4 FOOT, 18W LED TUBE -RECHARGEABLE- BACK-UP LIGHT

KEEP ALL HIGH RISK AND CRITICAL AREAS SUCH AS TIPS, CROSSCUTS, MINI SUB-STATIONS, HOIST ROOMS, REFUGE BAYS etc. ILLUMINATED DURING POWER FAILURES AND EMERGENCY SITUATIONS

The LED Light will automatically stay on in case of a power failure and will illuminate the area for ± 4 to 5 hours



- In case of any Power Failure or Power Cut to the supply power the LED Light will continue illuminating Critical Areas for up to 5 hours.

#### **SPECIFICATIONS**

#### **LIGHT FIXTURE**

Base - ABS

Lens - Clear Polycarbonate Diffuser Cover

Vapour Proof
Dust Proof
Corrosion Proof

#### **LED TUBE LIGHT**

Input Power - 12VDC Power Consumption - 18W Lumen Flux -1600-1850Im Size - 1200x30mm (4 foot) **BATTERY & ELECTRONICS** 

**Battery Type: Lithium-Ion** 

Battery Construction: 3x3 cell array Battery voltage: 11.8 volts Nominal

Battery Capacity: 6.6 A/Hrs

Battery protection:

- Cell balance

- Under voltage cut-off

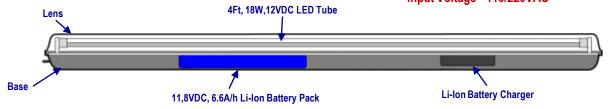
- Over Charge cut-off

**Charge Current: 3.0 Amps Max** 

Charge time: 3 Hrs Max

Charging Voltage: 12.9VDC Charge voltage

Input Voltage - 110/220VAC



The Back-Up Lights can also be made to be OFF with active power supply and to switch ON automatically during any power failure



# PORTABLE LED SAFETY FLASHING LIGHT



- Rechargeable Battery operated
- Can be used anywhere
- Portable
- Durable
- Polycarbonate enclosure
- Super bright red LED's
- Highly reflective





#### **UNIT SPECIFICATION DATA**

- Light Weight and Rugged
- Water, oil and shock resistant
- Durable Polycarbonate enclosure
- Super bright red L E D's
- Highly reflective High Brightness
- The switch is on the handle for easy turn on/off
- 220V AC charging adapter
- Use 2 x "DD" Batteries or Rechargeable Batteries

#### **BATTERY SPECIFICATION DATA**

- 2 Cell Ni-cad Rechargeable Battery Pack
- Continuous discharging time ~ 340 hours (one work cycle)
- Rechargeable Battery Life 450 Work cycles



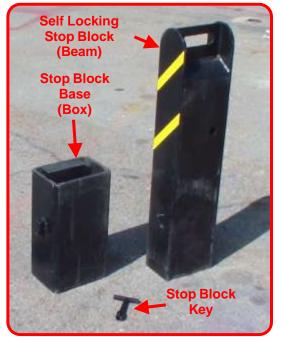
Tripod & Signs are available as optional extras



PHAKAMISA Safety

# SHAFT SAFETY DEVICES SELF-LOCK

# SAFETY STOP BLOC



When the Stopblock is dropped into the base assembly a free moving Locking Mechanism locks the stopblock into position which prevents the stopblock to be removed without a kev.

The SELF-LOCK STOP BLOCK consists of:

A Self Locking Stop Block (with free moving, gravity operated locking mechanism)

A Stop Block Base which is permanently fixed (concreted in between the rails)

A Stop Block Key that unlocks the Self Locking Stop Block before it can be REMOVED from its concrete covered base

It ensures a very **SAFE** and Tamper Free method of preventing Rolling Stock to enter RESTRICTED and UN-AUTHORIZED AREAS such as Shaft Stations, Vent Doors, Refuge Bays, Waiting Places and Workshops.

**Specifications** 

**Beam** 

Material: Lenath:

Length above box:

Weight:

Box Material:

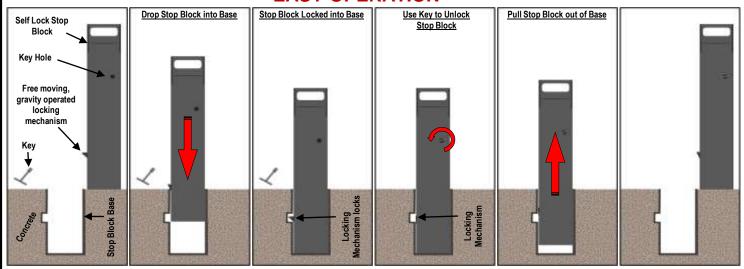
Size:

RSJ 203x133x22mm

880mm 580mm 23kg

5mm Plate 400x220x140mm

#### **EASY OPERATION**





## OTHER LED PRODUCTS WE SUPPLY

**LED Corn Cob Bulbs** 



**LED Dimmible Bulbs** 



**LED Filament Candle Bulbs** 





220V LED Flood Light with Sensor



10W 20W 30W 50W

12V <u>& 220V LED Surface Panel Lights</u>



Round & Square Available

**LED Drop In Panel Lights** 



**LED Bulbs** 





**LED Filament Bulbs** 





**LED Down Lights** 



**12VDC LED Flood Lights** 



12VDC 10W 12VDC 20W 12VDC 30W

12V & 220V LED Sunked Panel Lights





**Round & Square Available** 

#### Recessed & Surface Mount LED LBR Fittings





### FLAME/EXPLOSION PROOF

# FLAMEPROOF (FLP) PRODUCTS

# (Ex)

#### FLP Double Tube 1Ft & 2Ft Lights



I.A No: SABS MS/03-193
Rating: Ex d I/IIB T6
Zone 1 & 2

SANS 6079-0 & 1 Voltage: 12V / 24V AC/DC / 110VAC / 128VDC / 220VAC

#### **FLP Maxi Light with Reverse LEDs**



I.A No: SABS MS777/M588 Rating: Ex d I/IIC T4

Zone 1

SANS 60079-0 & 1

Voltage: 12V AC/DC

Wattage: 20W / 35W / 50W IRC

Dimensions: D- 140mm L- 165mm W- 186mm

#### FLP Rotating LED Flasher- Type HFRL



I.A No: SAEx MS/07-032X

Rating: Ex d ib I/IIB T4 (IP65) Zone 1 / 21 / 22 SANS 60079-0 / 1 / 11

Voltage: 12V / 24V AC/DC / 110VAC / 128VDC / 220VAC

LED colour: Red, Green, Amber, Blue and White

Dimensions: D- 160mm H- 140mm

#### FLP Double Rotating LED Flasher- Type HFRLD



I.A No: SABS M/04-447 Rating: Ex d I [ib] T4

Zone 1

SANS 60079-0 & 1

Voltage: 12V / 24V AC/DC / 110VAC / 128VDC / 220VAC

LED colour: Red, Green, Amber, Blue and White

Dimensions: D- 160mm H- 170mm

# FLP Rotating LED Flasher & Siren Combo-Type HAFC



I.A No: SABS MS/08-716

Rating: Ex d ib I T4 (IP65) Zone 1 / 21 / 22

SANS 60079-0/1/11

Voltage: 12V / 24V AC/DC / 110VAC / 128VDC / 220VAC LED colour: Red, Green, Amber, Blue and White Dimensions: L- 222 mm H- 195mm W- 155mm

# FLP Rotating LED Flasher with Battery Backup-Type HFRLB



I.A No: SABS M/R473

Rating: Ex d ib I T4

Zone 1

SABS 60079-0 & 1

Voltage: 12V / 24V AC/DC / 110VAC / 128VDC / 220VAC

LED colour: Red. Green, Amber, Blue and White

Dimensions: D- 190mm H- 152mm

## FLAME/EXPLOSION PROOF

# FLAMEPROOF (FLP) PRODUCTS

#### **BANSHEE EX MONO MOTORIZED SIREN S1**



VOLTAGE:
DUTY CYCLE:
SOUND OUTPUT:
SOUND FREQUENCY:
RANGE:
CURRENT CONSUMPTION:
CLASSIFICATION:
CERTIFICATION:
GAS GROUPS:
IGNITION GROUP:

12VAC/DC, 24VAC/DC 1 Min on and 8 min off 113 dB(A) at 1m 950 - 1200HzAPP. 600m In still air on open field 12V-9A, 24V-4.8A Exd I/IIC 150°C MS -XPL/06849 I, IIA, IIB, IIC T6 - 85°C 11.3kg

depending on the sound selection

#### **BANSHEE EX DUPLO MOTORIZED SIREN S1**

VOLTAGE:
DUTY CYCLE:
SOUND OUTPUT:
SOUND FREQUENCY:
RANGE:
CURRENT CONSUMPTION:
CLASSIFICATION:
CERTIFICATION:
GAS GROUP:
IGNITION GROUP:
WEIGHT:

110VAC, 220VAC 10 Hours Continuous 116 dB(A) at 1m 950 - 1200HzAPP. 1000m In still air on open field 110V-2A, 220V-1A Exd I/IIC 150°C MS - XPL/06849 I, IIA, IIB, IIC T6 - 85°C 11.3kg

WEIGHT:



#### **BANSHEE EX MULTI ELECTRONIC SOUNDER**



VOLTAGE: 12VDC24VDC110VAC220VAC
DUTY CYCLE: Continuous rated
SOUND OUTPUT: 110 dB(A) at 1m
SOUND FREQUENCY: 800 - 2400HzAPP.
RANGE: 800m In still air on open field
CURRENT CONSUMPTION: The amps vary from 40-70mA

CLASSIFICATION: Exd I/IIC 150°CDIP A21 (for group 21)
CERTIFICATION: MS - XPL/06849
GAS GROUPS: I, IIA, IIB, IIC
IGNITION GROUP: T6 - 85°C
WEIGHT: 11.3kg

#### **BANSHEE EX LED BEACON S1**

DUTY CYCLE:
CURRENT CONSUMPTION:
COLOUR:
LIGHT SOURCE:
LIGHT OUTPUT:
CLASSIFICATION:
CERTIFICATION:
GAS GROUP:
IGNITION GROUP:

**VOLTAGE:** 

WEIGHT:

12VDC, 24VDC, 110VAC, 220VAC
Continuous rated
12V-150mA, 24V-125mA, 110V-60mA, 220V-45mA
Amber, Red, Blue & Green
24 Hi-Bright LED's
5 Joule
Exd I/IIC 150°DIP A21 (for group 21)
MS - XPL/06849
I, IIA, IIB, IIC
T6 - 85°C
9.5kg

WEIGHT:



#### **BANSHEE EX MULTI SOUNDER & LED BEACON COMBO S1**



VOLTAGE: 12VDC24VDC110VAC220VAC

DUTY CYCLE: Continuous rated

CURRENT CONSUMPTION: Amps vary from 80 - 250mA depending on sound selected

COLOUR: Red, Amber, Blue & Green

APP RANGE: 800m In still air on open field

COLOUR:
APP RANGE:
Blue & Green
800m In still air on open field
LIGHT SOURCE:
24 Hi-Bright LED's
SOUND OUTPUT:
CLASSIFICATION:
Ext I/IIC 150° / DIP A21 (for group 21)
CERTIFICATION:
MS - XPL/06849
GAS GROUPS:
I, IIA, IIB, IIC
IGNITION GROUP:
T6 - 85°C

11.3kg

# OTHER PRODUCTS & SERVICES

#### Products Manufactured and Supplied according to Mine Specifications:

- \*Material Cars
- \*Flat Cars
- \*High Back Material Cars
- \*V-Shape Cars
- \*Hoppers
- \*Bogie Cars
- \*Funky Slides
- \*Pipe Sleeves
- \*Bearer Sets
- \*Spreader Bars for Pipes
- \*Rail Switch Pulling Devices













#### Products Manufactured and Supplied to Mining Industry:

- \*Self Locking Safety Stop Block (Key Operated)
- \*Vula-Vala Twin Shaft Stop Block
- \*Vula-Vala Auto Lock Stop Block
- \*Mono Winch Barricades
- \*Vula-Vala Twin Stop Block
- \*Wooden T-Sprags
- \*Vula-Vala Auto Lock Stop Block
- \*Foot Operated Rail Switching Devices
- \*Winch Equipment Boc for Night Shift Cleaning
- \*Water Board (Pilot Board)
- \*Barricades
- \*Steel Non Slip Step Ladders (various degree) **Pilot Boards**
- \*Wooden Step Ladder according to requirements (interlocking)











P.O. Box 6822 Oberholzer

Fax: (018) 788 2271







# OTHER PRODUCTS & SERVICES

#### Services according to Mine Specifications:

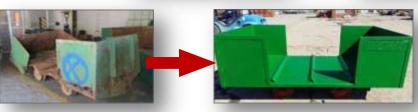
- \*Side Tipper Refurbishment
- \*Refurbishment of all type of Material Cars and Explosive Cars
- \*Civil Works
- \*Sandblasting



**Side Tipper Refurbishment** 



**Explosive Car Refurbishment** 



**Material Car Refurbishment** 



Hoist Control on top of shaft ~ Pitseng Shaft -Sibanye Gold





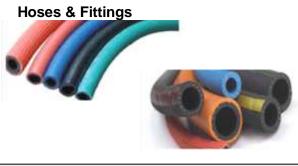


Installation of Gates & Fencing

#### Other Products Supplied to the Mining Industry:







**PHAKAMISA** 

Stainless Steel Pipe
Repair Clamps



P.O. Box 6822 Oberholzer 2502

Fax: (018) 788 2271

# OTHER PRODUCTS & SERVICES

### Rubber Products Supplied to the Mining Industry:







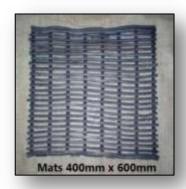






















# **PHAKAMISA SAFETY PRODUCTS**

P.O. Box 6822 Oberholzer 2502

Cell: 083 256 1413 e-mail: plouwrens@telkomsa.net

Tel/Fax: 018 788 2271

Reg No: 2007/24878/23 VAT No: 4500274495