

## Passionate About Innovation

NAUTITECH® is an Australian provider of smart electronic and electrical solutions for OEMs and mine sites in the underground mining industry. We design and manufacture equipment that delivers **Communications** and **Visibility**, supports **Automation**, and provides a platform for **Asset and Condition Monitoring** of underground equipment.

Our core products include **Methane Monitoring** and **Shutdown** systems, **Underground Communications**, **Thermal** and **HD Cameras**, **IS Lights** and **Displays**. We collaborate, test, and research to continually improve what we deliver to our customers.



**NAUTITECH®**  
DEVOTED TO SOLUTIONS IN HAZARDOUS AREAS

# I.S. LIGHTS



**Light up hazardous areas underground without the need for flameproof enclosures**

Over time, the I.S. solution could represent significant cost savings due to a reduction in inspections, maintenance, and machinery down time.

## Service & Support

- ✓ AS3800 and IECEx service facility
- ✓ NATA certified calibration lab
- ✓ Field installation, maintenance & training
- ✓ Audits & compliance checks of explosion proof equipment including diesel machines
- ✓ 12 months warranty on new parts

## We offer full product life cycle support

The reliability and quality of NAUTITECH® solutions have been proven to provide a competitive advantage.



## Intrinsically safe LED lights

- Safe in **GROUP I** and **ZONE 0** hazardous environments
- Flexible use as reverse tail, headlights, indicators, hazard, work area or spotlight
- Independent light banks allow flexibility such as independent and anti-phase strobing, individual On/Off control, and high/low beam
- Multiple colours, intensity & beam angle options
- Robust stainless steel IP65



**Full 1-Year Warranty backed with post-purchase support**



### New South Wales

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Castle Hill, NSW 2154

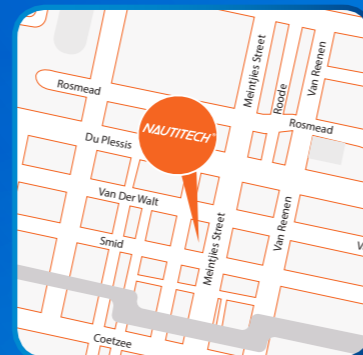
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# INTRINSICALLY SAFE LED LIGHTS

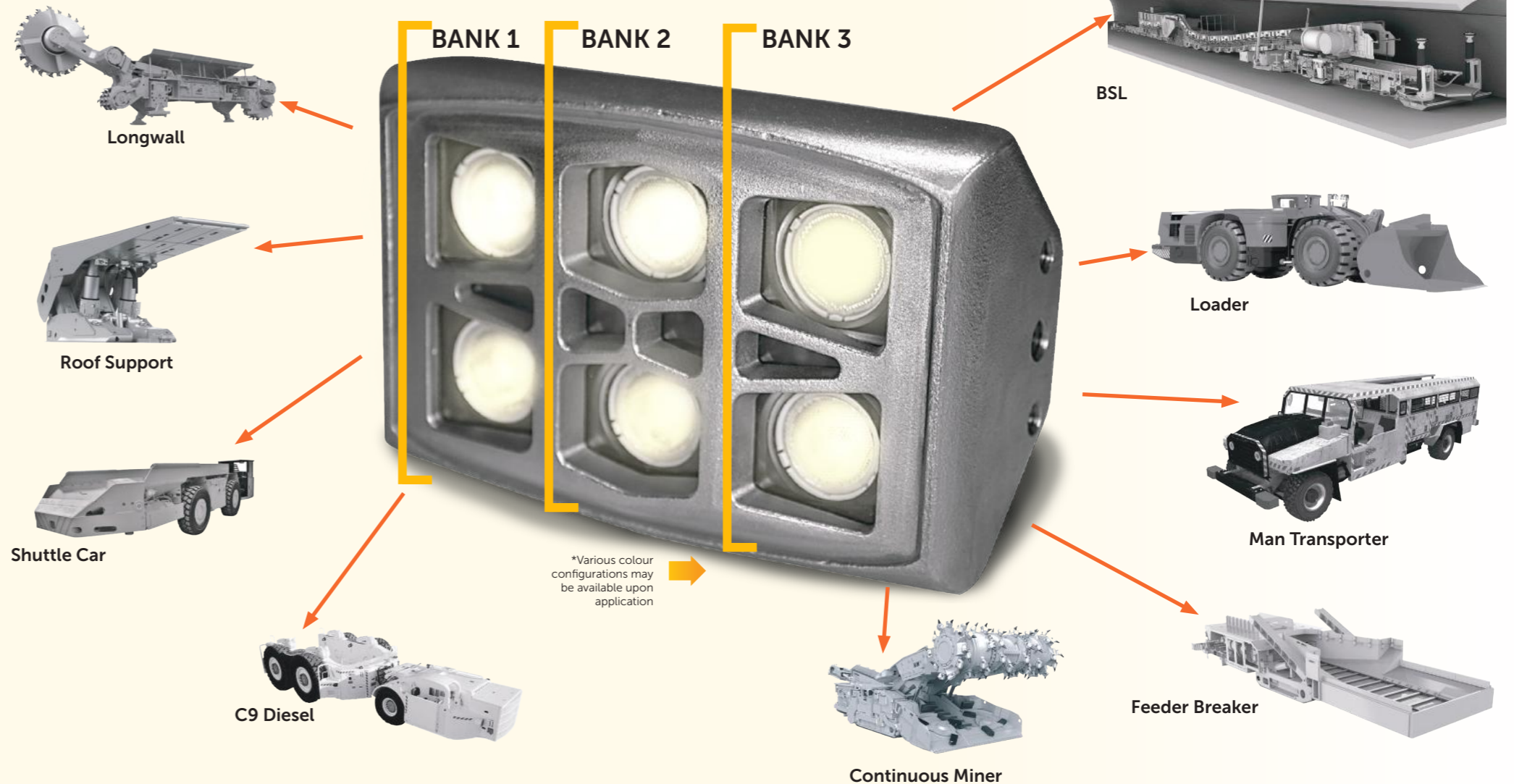
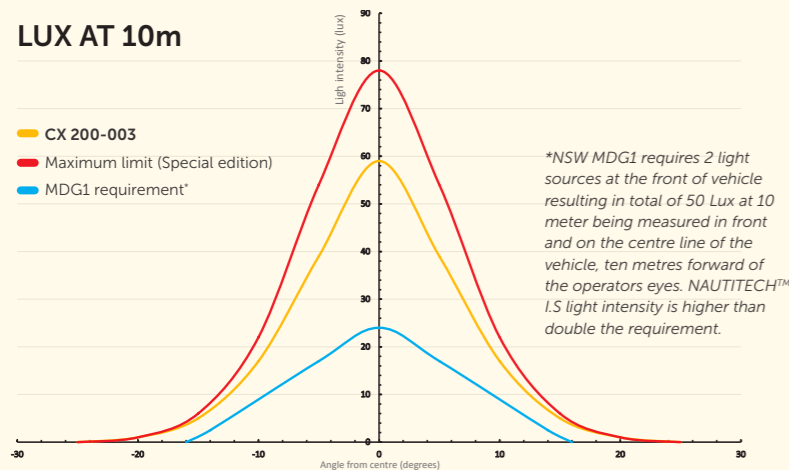
**Typical Applications:** Longwall, BSL, continuous miner, shuttle car, diesel machines, and other mobile machinery

## Standard Variants Available

- ✓ Beam angle: 60° or 5°
- ✓ Colours: white, red, green or yellow
- ✓ Operation: flashing, non-flashing, triggered
- ✓ Use: reverse tail, hazard, signal, traffic, work areas and spot lighting
- ✓ Preset intensity as required

A robust safety plan for NO-GO Zones could include triggered lights to designate safe access or hazardous situations while machinery is in operation.

### LUX AT 10m



## SPECIFICATIONS



### I.S. LIGHTS

I.S. Parameters	
U <sub>i</sub>	20V
L <sub>i</sub>	Negligible
C <sub>i</sub>	Negligible

- 3 x Independent circuits
- High efficiency, long life
- 1200 lumens (max)
- Cool running
- IP 67 connector
- Rated from 10.5-20V DC
- -20°C < Ta < +60°C
- Suitable for 12V applications
- Tailor made cables

### LIGHT INTERFACE MODULE

Output Parameters	
U <sub>o</sub>	20V
I <sub>o</sub>	1.2 A
C <sub>o</sub>	2uF
L <sub>o</sub>	100uH
Rated Voltage	12 - 18.7V
Rated Current	11A
Tested Temperature	-20°C < Ta < +60°C

- 8 x GPIO ports with dual switches EX ib | Mb
- 1 port with single switch Ex ib | Mb
- Backplane power
- Configuration via Bluetooth
- Crocodile scale enclosure
- IP65 enclosure with IP67 connector

