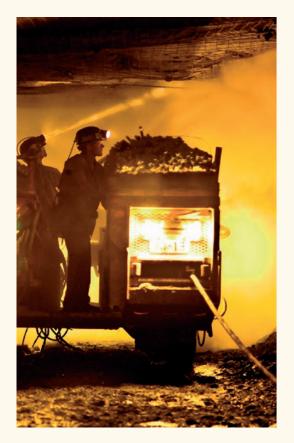
## Intrinsically Safe LED Lights Specifications



#### **I.S LIGHTS**

I.S PARAMETERS		• 3 x Independent circuits
		<ul> <li>High efficiency, long life</li> </ul>
Ui	20V	1200 lumens (max)
Li	Negligible	Cool running
		IP 67 connector
Ci	Negligible	
CI	Negligible	Rated from 10.5-20V DC

#### **I.S LIGHT INTERFACE MODULE**

OUTPUT PARAMETERS	
Uo	20V
lo	1.2 A
Co	2uF
Lo	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 I Mb

○ -20°C < Ta < +60°C

• 1 port with single switch EX ib I Mb

- O Backplane power
- Configuration via Bluetooth
- Crocodile scale enclosure
- IP66 ingress protection

## Flameproof LED Lights Specifications

Supply voltage	= 12V - 24V AC/DC	
Power - Mega Lux and Laser Lux	<= 9.5W	12
Power - Dyna Bright and Bright CAM	<= 4.5W	
Operating temperature (external)	-40°C to +60°C	En e .
Storage temperature (external)	-55°C to +95°C	A Lor
Shock	50G – 3Axis	
Bump	15G – 3Axis	100
Vibration	Random Vibration 3 Axis (7Hz-500Hz)	11/120
Humidity	5 – 95% non-condensing	A BIL
Sinusoidal Resonance	IEC 60068-2-6	·
Random Vibration	MIL-STD810G	- 1
Bump and Shock Test	IEC 60068-2-27	



## NAUTITECH<sup>®</sup> Mining Systems is an Australian owned and managed company devoted to the design and manufacture of products that improve safety and productivity in hazardous areas.

Our key products dominate the markets they are in and include methane safety systems, broadband power-line modems and thermal or HD cameras.

Talk to us about the Methane Master, SPITFIRE modem range, I.S Cubex system, as well as 7" and 10" Displays.

Our engineers are experts at designing and developing products for Zone 0

#### **CUSTOMER FEEDBACK**



GE Minina

The people at NAUTITECH<sup>®</sup> have a very helpful and hands on approach, the culture is very positive. Dave, Valley Longwall International (VLI)

#### Diversified Mining Services

NAUTITECH<sup>®</sup> staff provide us with exceptional customer service and product knowledge, they have bent over backwards to help us Peter, DMS (PPK)

### **SERVICE & SUPPORT**

✓ Full 1-Year Warranty

### WE OFFER FULL PRODUCT LIFE CYCLE SUPPORT

#### nautitech.com.au

E sales@nautitechmining.co.za

P +27 (0) 78 800 2589

**AUSTRALIA - SYDNE** 

3/9 Packard Avenue

Castle Hill NSW 2154 P +61 (2) 9899 6857

(Regional Office)

3/16 Transport Ave

Paget QLD 4740

P 0488 221 031

SOUTH AFRICA

E sales@nautitech.com.au

**AUSTRALIA - QUEENSLAND** 

E sales@nautitech.com.au

(Head Office)

#### **NAUTITECH®**

NAUTITECH<sup>®</sup> are the innovation leaders, they are always raising the bar in terms of safety and reliability.

#### Blake, GE Mining



- ✓ CODE & AS3800 service
- ✓ NATA CH4 sensor calibration
- ✓ Installation, repairs, maintenance & training
- ✓ Dossier audits & compliance checks for Diesel machines
- ✓ Audit, fault diagnosis, and repair of 3rd party installations
- ✓ Provision of manuals & quotes for new systems

To ensure product longevity, we recommend that you consult NAUTITECH® to ensure proper installation, cabling, configuration and training.





# by NAUTITECH®

## Intrinsically Safe LED Lights

#### • SAFE IN ZONE 0

- Powered intrinsically using the NAUTITECH<sup>®</sup> PSM
- Flexible use as headlights, indicators, hazard or standalone light (when paired with NAUTITECH<sup>®</sup> I.S PSM)
- Independent light banks allow flexibility such as Independent and Anti-phase strobing, Individual On/Off control, and High/Low Beam
- Multiple colours, flashing, intensity & beam angle options
- Compact, light, SS65 robust enclosure

# Flameproof LED Lights

- Robust 316 S/S enclosure
- IP66 (Ingress Protection rating)
- Multiple colours available (Dynabrite)
- Switching according to vehicle direction (Dynabrite)
- Six (6) rear and side gland entries
- Lights can be made dimmable by request
- Certified for Group I



## Intrinsically Safe LED Lights

Flameproof LED Lights



MASC

65 LUX 1.3M COVERAGE

65 LUX 1.3M COVERAGE

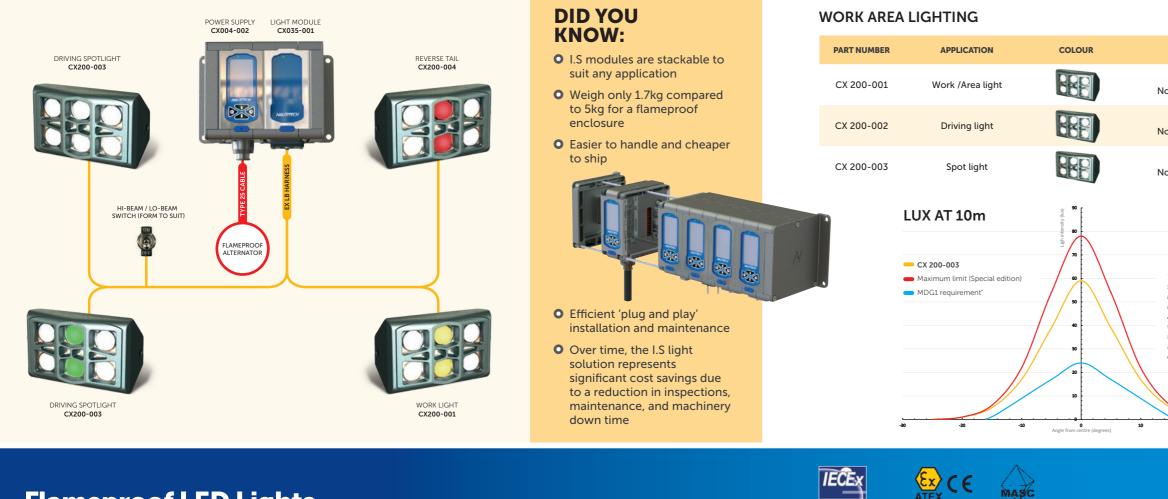
130 LUX 1.3M COVERAGE

300 LUX

0.5M COVERAGE

5m

IECEX ITA 12.0007X FM13ATEX0088X MASC MS/14-0066X



NAUTITECH®	+61 2 9899 6857 nautitech.com.au	NAUTITECH®	
by Nautitech	All features of the Megalux plus more power and narrower beam An intense 'laser beam' like light for extreme clarity of tunnel walls, the coal seam, transfer points or anywhere that can benefit from acutely concentrated lighting	6° VI DISTANCE 0	EW ANGLE
<b>DECADER</b> by Nautitech	<ul> <li>Suggestions: Shearer, continuous miner, shotcreter, pump stations, main power supply sub stations, surface loading tunnels and conveyor transfer points</li> <li>View the coal seam start and end points more clearly</li> <li>Improved vision in the presence of coal dust and water sprays</li> </ul>	15° V	IEW ANGLE
	<ul> <li>All the features of the Dynabrite plus a built-in HD video camera</li> <li>High resolution 2048 x 1536 HD camera</li> <li>2-in-1 reduces total expenditure on lights &amp; cameras</li> <li>Free up machine space by using fewer enclosures</li> <li>Reduce installation &amp; maintenance labour</li> </ul>	Includes integrated HD video camera	IEW ANGLE
	<ul> <li>Suggestions: Shuttle car, loader, grader, man transporter, shearer carrier</li> <li>The perfect LED head light for mobile plant</li> <li>Built to withstand heavy vibration and impact</li> <li>Long lasting LED globes</li> <li>Compact enclosure length</li> </ul>	Available in white and red/blue	IEW ANGLE



## **Standard Variants**





		the second second	
BANK 1	BANK 2	BANK 3	
2 x 60°	2 x 60°	2 x 60°	
on flashing	Non flashing	Non flashing	
2 x 5°	2 x 60°	2 x 5°	
on flashing	Non flashing	Non flashing	
2 x 5°	2 x 5°	2 x 5°	
on flashing	Non flashing	Non flashing	

\*NSW MDG1 requires 2 light sources at the front of vehicle resulting in total of 50 Lux at 10 meter being measured in front and on the centre line of the vehicle, ten metres forward of the operators eyes. NAUTITECH  $^{\mbox{\tiny TM}}$ I.S light intensity is higher than double the requirement.



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PART NUMBER	APPLICATION	COLOUR	BANK 1	BANK 2	BANK 3
CX 200-004	Reverse + tail light		2 x 60° Non flashing	2 x 60° Non flashing	2 x 60° Non flashing
CX 200-005	Hazard + tail light		2 x 60° Flashing anti-phase with Bank 3	2 x 60° Non flashing	2 x 60° Flashing anti-phase with Bank 1
CX 200-006	Injury light		2 x 60° Flashing anti-phase with Bank 3	-	2 x 60° Flashing anti-phase with Bank 1
CX 200-007	Hazard light		2 x 60° Flashing anti-phase with Bank 3	-	2 x 60° Flashing anti-phase with Bank 1
CX 200-008	Hazard + spot light		2 x 60° Flashing anti-phase with Bank 3	2 x 5° Non flashing	2 x 60° Flashing anti-phase with Bank 1
CX 200-009	Tail + spot light		2 x 5° Non flashing	2 x 60° Non flashing	2 x 5° Non flashing
CX 200-010	Hazard + injury light		2 x 60° Flashing anti-phase with Bank 3	2 x 60° Non flashing	2 x 60° Flashing anti-phase with Bank 1
CX 200-011	Traffic lights		2 x 60° Non flashing	2 x 60° Non flashing	2 x 60° Non flashing
CX200-012	Signal Traffic		2 x 60° Non flashing	2 x 60° Non flashing	2 x 60° Non flashing

## Dimensions

