

NAUTITECH™

DEVOTED TO SOLUTIONS IN HAZARDOUS AREAS

Intrinsically Safe

LIGHTS



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Intrinsically Safe (I.S) LED Lights designed with flexibility in mind for use on mobile & fixed underground equipment in Zone 0. Use as a headlight or standalone light in any situation when paired with the Nautitech I.S Power Supply Module (PSM).

- ✓ Multiple colour, flashing, intensity & beam angle options
- ✓ Compact, light, SS65 robust enclosure
- ✓ 100% Australian owned and made
- ✓ Full 1 year warranty



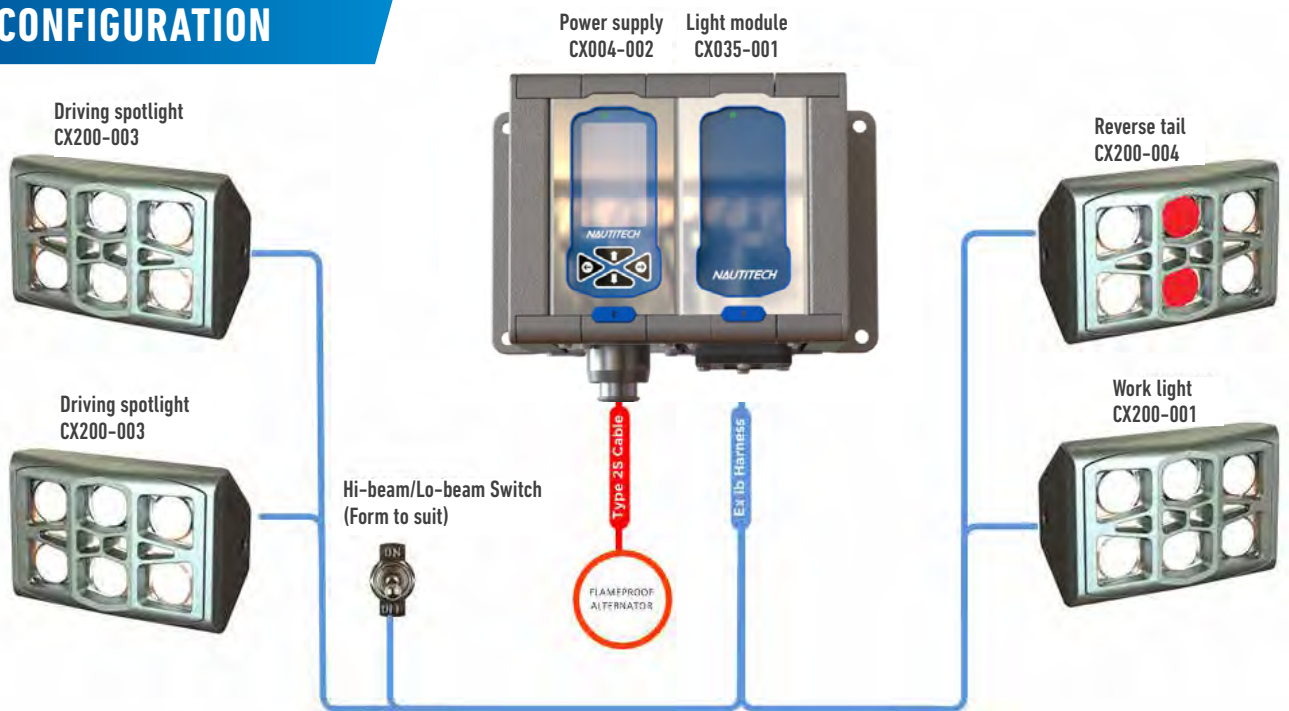
LIGHT UP ZONE 0

APPLICATIONS

The light fitting is available in many forms suiting varied applications in hazardous zones such as:

- ✓ Vehicle driving lights
- ✓ Vehicle indicating lights
- ✓ Vehicle hazard light
- ✓ Work/Area lights
- ✓ Traffic lights

TYPICAL CONFIGURATION



DID YOU KNOW.....

- ◆ Our I.S modules stack together in any order to suit any application.
- ◆ Nautitech's I.S light weigh 1.7kg compared to 5kg for a flameproof enclosure, therefore easy to handle, cheaper to ship.
- ◆ Installation/maintenance costs are significantly lower eg) With I.S it's simply "plug and play".
- ◆ Financial modeling indicates the cost of an I.S lighting solution represents significant cost savings over time due to a reduction in inspections, maintenance & machinery downtime.



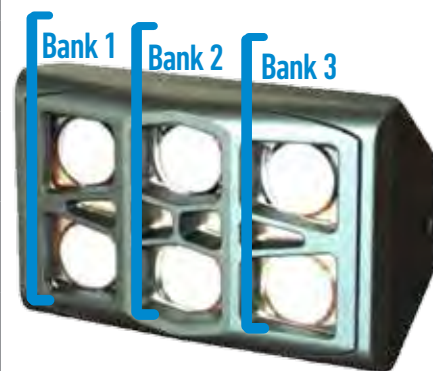
Different functionality can be facilitated with three independent light banks including:

- ✓ Independent strobing
- ✓ Anti-phase strobing
- ✓ Individual control (On/Off)
- ✓ High beam/low beam

Alternatively all circuit banks can be powered from a single source. The light fitting can be powered intrinsically by the Nautitech PSM.

STANDARD VARIANTS

Part number	Application	Colour	Bank 1	Bank 2	Bank 3
CX 200-001	Work/Area light		2 x 60° Non flashing	2 x 60° Non flashing	2 x 60° Non flashing
CX 200-002	Driving light		2 x 5° Non flashing	2 x 60° Non flashing	2 x 5° Non flashing
CX 200-003	Spot light		2 x 5° Non flashing	2 x 5° Non flashing	2 x 5° Non flashing
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



*Other configurations may be available upon application



**BE INTRINSICALLY SAFE
IN ZONE 0**

SERVICE & SUPPORT

Nautitech provides a full support service for customers:

- ✓ CODE & AS3800 overhauls and machine rewires
- ✓ NATA - CH4 sensor calibration
- ✓ Installation, repairs, maintenance & training of all Nautitech products
- ✓ Dossier audits & compliance checks for diesel machines
- ✓ Audit and repair of 3rd party installations to remove any intermittent faults
- ✓ Provision of manuals & quotes for new systems

Our assistance is available throughout the product's life cycle & its renewal. As our systems are EX ia certified, we advise Nautitech's involvement in service & code work to ensure the product's longevity.

SPECIFICATIONS

I.S Lights

3 x independant circuits

High efficiency, long life

1200 lumens (max)

Cool running

IP67 connector

Rated from 10.5-20V DC

-20°C < Ta < 60°C

I.S Light Interface Module (LIM)

The LIM supplies I.S power to certified light fittings.

- ✓ 8 x GPIO ports with dual switches Ex ib I Mb
- ✓ 1 x port with single switch Ex ib I Mb
- ✓ Backplane power
- ✓ Configuration via bluetooth
- ✓ Crocodile scale enclosure
- ✓ IP66 ingress protection

OUTPUT

$U_o = 20V$

$I_o = 1.2A$

$C_o = 2\mu F$

$L_o = 100\mu H$

-20°C < Ta < +60°C

Rated Voltage: 12-18.7V

Rated Current: 11A

CERTIFICATIONS



IECEX MSC 15.0002X
Intrinsically Safe
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It is recommended that only Nautitech ancillary equipment be used which is listed in our product manuals. Doing otherwise may result in less than optimal operating performance or failure of which Nautitech will not be held responsible for.