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**Making Hazardous  
Environments Work**

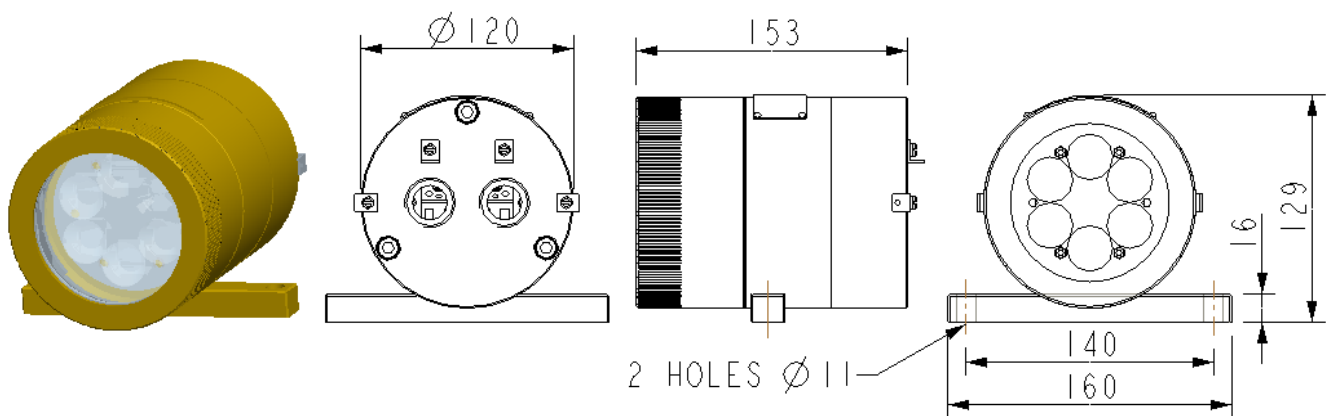
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## **TYPE ML103 MINING LED LUMINAIRE**

### **EXPLOSION PROOF EQUIPMENT**

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**Certified as complying with the applicable requirements of 30 CFR Part 18  
CERTIFICATION NUMBER 18-XPA100016-0**



### **IMPORTANT**

1. Read this leaflet carefully before commencing to install the luminaire and retain it for future reference.
2. Check the rating label to ensure that the luminaire is suitable for the supply provided. Both 12V and 24V units are AC/DC.
3. The operating temperature range is  $-15^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$ .
4. The luminaire **MUST** be earthed.
5. Under **NO** circumstances should a luminaire be opened, even when isolated, when an explosive gas or dust environment is present.
6. The luminaire housing is can be manufactured from aluminium, brass, steel, or stainless steel.
7. **DO NOT LOOK DIRECTLY INTO BEAM.**

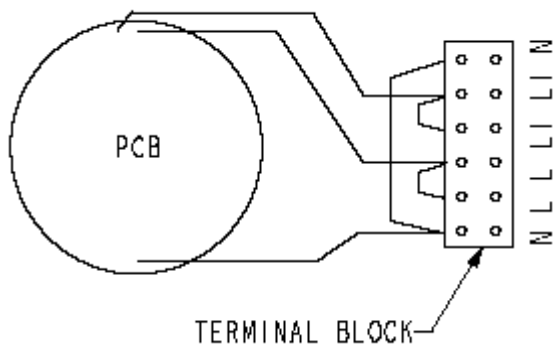
### **INSTALLATION**

#### **a) Mounting**

The luminaire is supplied with mounting brackets as shown in the diagram on the front of this leaflet. The luminaire must be securely fastened in place. It can be mounted in any attitude.

#### **b) Cable entries**

Up to two cable entry holes for packing gland assemblies. Access to the terminal block is made by removing the three socket cap head screws on the rear of the unit. The terminal block is suitable for up to 4mm<sup>2</sup> cable.



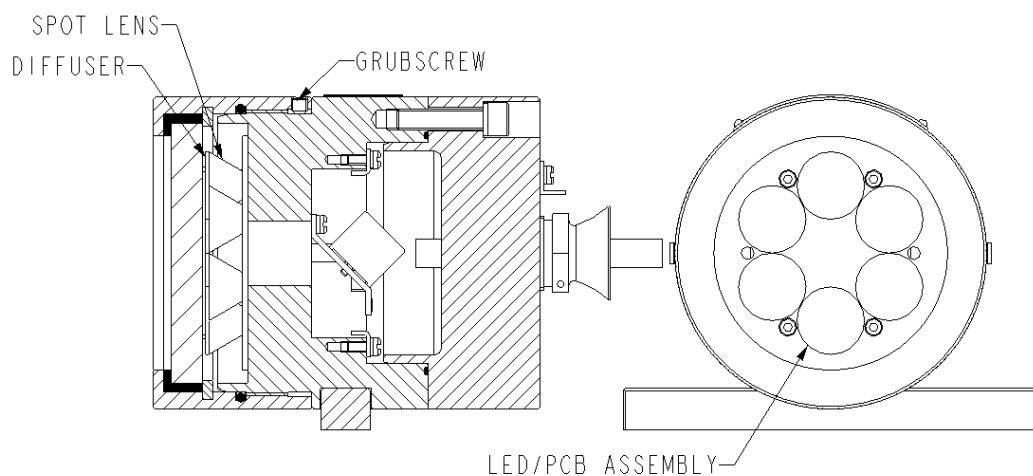
**WIRING DIAGRAM**

The luminaire can be switched between white LED's ( forward ) and red ( rear/tail ). N and L for white, or N and L1 for red.

All terminal screws, used and unused should be fully tightened down.

Only one conductor per terminal.

### **FITTING OR REPLACING LED/PCB AND OR LENSES AND DIFFUSERS**



1. Remove the retaining screws from the rear cover. Remove cover and unscrew terminal screws connecting cables from the PCB.
2. Loosen the grubscrew in the lampglass assembly so that the whole assembly can be unscrewed and removed.
3. Remove the four screws and washers holding the PCB in place and remove the PCB.
4. Replace the PCB connecting the cables to the terminal block ensuring all terminal screws are fully tightened down. Fasten the PCB in place using the four screws and washers.
5. If spot lenses are to be fitted, place over the LED's and press in place so that the self adhesive pad is firmly adhered to PCB.
6. If diffusers are to be fitted, locate over spot lens and press gently in place ensuring the clips are engaged.
7. Grease the threaded spigot on the main body and the spigot on the rear cover with a non-setting grease such as silicone grease.
8. Ensure O ring is fitted then crew the lampglass assembly fully home and tighten the grubscrew.
9. Re-fit rear cover ensuring O ring is in place in main body. Fully tighten the 3 fixing screws and washers provided.

## **MAINTENANCE AND INSPECTION.**

The following list indicates some of the points that should be given particular attention. Suitable repairs should be carried out if required:-

- a) Clean all flameproof paths using a non-metallic or suitable non-corrosive cleaner and examine the flameproof paths for signs of damage. Replace damaged parts.
- b) Dirty lampglasses should be cleaned.
- c) Replace cracked or damaged lampglass assemblies.
- d) Replace any missing fasteners with items of the correct type and quality.
- e) Fit new gaskets, lock-washers, etc as appropriate.
- f) Grease all flamepaths and screw threads with a non-setting grease (e.g. silicone )
- g) Ensure that blind tapped holes are clear of dirt, etc that could prevent correct closure of joints.
- h) Do not over-tighten fasteners on re-assembly.
- i) Ensure all mountings are secure and not corroded.
- j) Check packing glands for tightness and check the luminaire is efficiently earthed.
- k) Check resined joints for deterioration. If damaged then the assembly must be replaced in its entirety.  
Resined components cannot be repaired except by the manufacturer.
- l) Any mechanically damaged parts must be replaced.

## **GENERAL**

All components that are replaced should be in accordance with the manufacturer's specification. Failure to use approved parts invalidates the certification and approval of the luminaire and may make it dangerous.

NO modifications should be made to the luminaire without the knowledge and approval of the manufacturer.



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*We reserve the right to change characteristics of our products. All data is for guidance only.*

