



The Petrel XN Zone 2 Fluorescent Luminaire Range from PFP Ltd
Standard & Emergency Versions
Application, Installation and Maintenance Instructions



General Data

Certificate No. Epsilon Ex02ATEX1167 Protection II 3 GD EEx nC II T4 135°C
 Models available: 1x18W, 1x36W, 1x58W, 2x18W, 2x36W, 2x58W - Non Emergency versions
 1x36W, 1x58W, 2x18W, 2x36W, 2x58W - Emergency versions with integral battery.
 All versions T4 @ T amb -40°C to +55°C
 In accordance with EEC Directive 89/336/EEC for Electromagnetic Compatibility.
 The luminaire utilises electronic control and is suitable for operation from an electrical supply of 220-250V 50-60Hz

WARNING

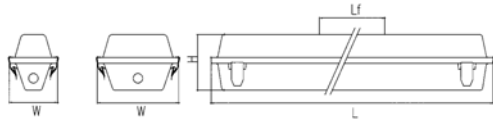
Under no circumstances must any additional holes be drilled in the equipment as this would invalidate certification.
 The luminaire should not be used in conditions of severe low frequency vibration (<5Hz, amplitude>1.5mm). If in doubt, contact the Manufacturer
 Certification and specification data is shown on the equipment nameplate. Check that the equipment is suitable for the application concerned - i.e. that the gas grouping, temperature classification, equipment voltage etc. are appropriate to the application. This may be done by reference to BSEN60079 for UK installations or by equivalent Codes of Practice for other countries. The equipment must be installed by suitably trained and qualified personnel and as required by the applicable Codes of Practice for the country concerned.

Special Considerations

The equipment is designed and tested to meet IP65 but in order to maintain the validity of the certification the enclosure must maintain a rating of IP54 minimum. When re-closing the luminaire, care must be taken to ensure that the gasket is in good condition and fully functional and that the diffuser seats properly onto the gasket face. The enclosure material is principally polycarbonate and GRP with a foamed polyurethane gasket and the performance of these materials should be considered with regard to attack from aggressive substances which may be present in the hazardous area. Clean enclosure only with a damp cloth.
 These luminaires use instant start electronic ballasts which are designed for intermittent switching duty only.

Mounting Arrangements

Mounting is by two M8 screws or studs which are fitted by drilling the enclosure on the centres Lf. Care must be taken to ensure that a minimum protection of IP54 is achieved to retain certification requirements.



	L	W	H	Lf	No of Clips
1X18W	703	102	108	500	4
1X36W	1312	102	108	800	8
1X58W	1612	102	108	1100	10
2X18W	703	172	108	500	4
2X36W	1312	172	108	800	8
2X58W	1612	172	108	1100	10

Access to the Enclosure

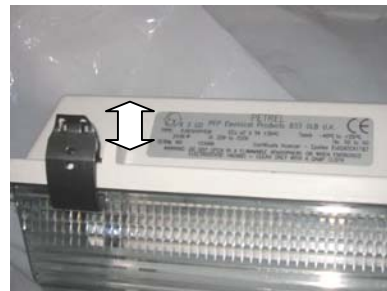
WARNING

These luminaires must not be opened in a flammable area or when energised.

Access to the enclosure is obtained by releasing the retaining clips which then will allow removal of the polycarbonate diffuser.

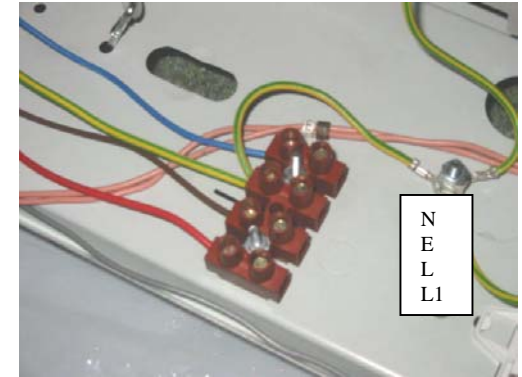
Access to the control gear is obtained by removing the lamp(s) as instructed below and then pinching together the stainless steel retaining clips which will allow the reflector and control gear assembly to be removed.

When replacing the diffuser take care to ensure that it is placed symmetrically on the body moulding and gasket and that the retaining clips are correctly located and fastened.

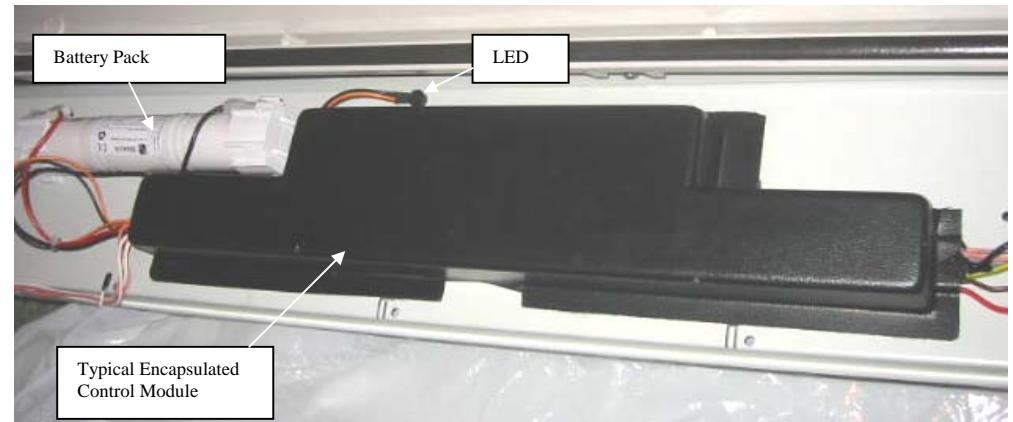


Electrical Connections & Components

Access for electrical connection is obtained by removing the lamps (if fitted), removing the internal reflector by pinching together the two retaining clips and allowing the reflector with control gear to drop from the body supported by the two straps provided. The electrical terminals are rated to accept up to 4mm² cable.
 Cable entry to the luminaire must be made with a gland suited to the cable being used which will ensure an IP rating of IP54 minimum.
 Two M20 cable entries are provided at one end of the luminaire and sealing plugs to achieve a minimum rating of IP54. Ensure all unused entries are fitted with an approved sealing plug and that these are correctly fitted.
 Luminaire is manufactured in accordance with EN 60598.
 L is the normal line supply and L1 is the permanent supply for emergency luminaires.



Luminaires may be supplied with three phase looping facility if required.



Lamp Fitting & Replacement

The luminaire is designed to accept T8 lamps of the appropriate rating. The lamps are fitted by engaging the two pins at each end of the lamp into the slots provided in the lampholder, sliding the lamp into the holder and then rotating the lamp through 90° to make electrical connection.
 The condition of the lamp should be checked at regular intervals and replacements fitted as required.

Replacements and Spares

To maintain certification, only identical components may be used for replacement.