

EU-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- EU-Type Examination Certificate Number:** ITS20ATEX305480X Issue 0
- Product:** Pioneer LED Light
- Manufacturer:** BME Nitech Ltd.
- Address:** Unit 2A, Nevis Business Park,
Balgownie Road,
Bridge of Don
Aberdeen, AB22 8NT, UK
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-18:2015+A1:2017 and EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:



Ex eb ib mb IIC T4 Gb
II 2GD Ex ib mb tb IIIC T135°C Db
-20°C ≤ Ta ≤ +40°C

Certification Officer:

M Newman

Date:

13 February 2020

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

SCHEDULE:

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11. Description of Equipment or Protective System

The BME Nitech Ltd. Pioneer LED (PI-Z1-LED) Temporary Light is a transportable luminaire powered by 110 / 230V ac mains supply for providing a light source for use in hazardous areas where explosive gas atmospheres or explosive dust atmospheres may be present.

The equipment comprises a light head mounted on an adjustable bracket to permit adjustment of the light distribution provided by the luminaire.

The LED light sources are placed behind a polycarbonate lens, which is coated in an anti-static coating.

The equipment is provided with a permanently attached cable and Ex Certified plug connector.

The supply cable and LED light source are not user serviceable and must be returned to the manufacturer for service if damaged.

12. Report Number

Intertek Report: 102743640LHD-001 Issue 1 dated 12th February 2020.

13. Special Conditions of Certification

(a). Special Conditions of Use

- The luminaire and its attached cable are not user serviceable.
- If the supplied plug is not suitable for the intended supply, the attached supply cable shall be terminated in a manner suitable for the surrounding Ex environment.
- Refer to the manufacturer's instructions for guidance on the durability of the anti-static coating on the lens.

(b). Conditions of Manufacture (Routine Tests)

- Encapsulated parts shall be visually inspected.
- A dielectric strength test shall be performed at on the completed luminaire at 500V ac for 1 minute between the battery terminals and the case of the equipment.
- The low voltage connections of the encapsulated modules shall be routinely tested at 500V ac for 1 minute between the connections connected together and the case of the module.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 102743640LHD-001 Issue 1 dated 12th February 2020.

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15. Drawings and Documents

Title:	Drawing No. :	Revision:	Date:
Pioneer Zone I LED Light-Head Assembly Non-Linkable	EX-DRW-001-19	2	06-02-2020
Pioneer Zone I LED LED Tray Assembly Detail Drawing	EX-DRW-001-20	2	06-02-2020
Pioneer Zone I LED Lens Assembly Detail Drawing	EX-DRW-001-21	2	06-02-2020
Pioneer Zone I LED Light-Head Assembly Linkable	EX-DRW-001-22	2	06-02-2020
Pioneer Zone I LED Light-Head Wiring Non-Linkable	EX-DRW-002-5	2	06-02-2020
Pioneer Zone I LED Wiring Linkable and Non-Linkable	EX-DRW-002-8	2	06-02-2020
Pioneer Zone I LED Light-Head Wiring Linkable	EX-DRW-002-9	2	06-02-2020
Pioneer Zone I LED Light-Head Machining Non-Linkable	EX-DRW-003-1B	2	06-02-2020
Pioneer Zone I LED Light-Head Machining Linkable	EX-DRW-003-1D	2	06-02-2020
Pioneer Zone I LED Label	EX-DRW-003-20	2	06-02-2020
Items List for Zones I and II LED PCB	ARCV35	D	24-10-2019
ARCV30 Zone I & II LED PCB Schematic	ARCV31	D	24-10-2019
ARCV30 PCB Details	ARCV32	D	24-10-2019
Items List for Zone I Mains LED Driver Assembly	ARCV55	C3	20-01-2020
Nitech ARCV50 Guardian Mains LED Control Schematic	ARCV51	B	01-11-2017
ARCV40 PCB Details	ARCV42	C1	28-10-2019
LED Driver Potting Details	ARCV46	B1	17-01-2020
LED Control Box	ARCV47	C	28-10-2019
Mains LED PSU Potting Details	ARCV56	B1	17-01-2020
Mains LED PSU Box	ARCV57	B	23-10-2018
EPS-15	EPS-15-R0.SchDoc	R0	2012-10-23

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