



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ITS 20.0013X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-13

Applicant: **BME Nitech Ltd.**
Unit 2A, Nevis Business Park,
Balgownie Road,
Bridge of Don
Aberdeen AB22 8NT
United Kingdom

Equipment: **Pioneer LED Light**

Optional accessory:

Type of Protection: **Increased safety, Intrinsic Safety, Encapsulation, Dust**

Marking: Ex eb ib mb IIC T4 Gb
Ex ib mb tb IIIC T135°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Mark Newman

Position:

Certificate Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road
Leatherhead
Surrey, KT22 7SA
United Kingdom



IECEX Certificate of Conformity

Certificate No.: **IECEX ITS 20.0013X**

Page 2 of 3

Date of issue: 2020-02-13

Issue No: 0

Manufacturer: **BME Nitech Ltd.**
Unit 2A, Nevis Business Park,
Balgownie Road,
Bridge of Don
Aberdeen AB22 8NT
United Kingdom

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/ITS/ExTR20.0025/00](#)

Quality Assessment Report:

[GB/ITS/QAR20.0001/00](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx ITS 20.0013X**

Page 3 of 3

Date of issue: 2020-02-13

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.

Annex:

[Annex for IECEx Certificate of Conformity IECEx ITS 20.0013X Issue 0.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEx ITS 20.0013X	Issue No. 0
Annex No. 1		

Technical Documents for Guardian CFL			
Title:	Drawing No.:	Rev. Level:	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

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.

Certificate issued by:

intertek

Total Quality. Assured.

Intertek Testing & Certification Limited
Intertek House, Cleeve Road,
Leatherhead, Surrey, KT22 7SA

Page 1 of 1

SFT-IECEx-OP-HAZ-19f
(10/23/2017)