



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 CSAE 24.0057X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2025-01-20
Applicant: **Detectronic Limited**
Ground Floor Office Suite
16 Lindred Road
Brierfield, Nelson
Lancashire BB9 5SR
United Kingdom
Equipment: **LIDoTT Sensor**
Optional accessory:
Type of Protection: **Intrinsic Safety 'ia'**
Marking: Ex ia IIB T4 Ga
-20 °C ≤ Tamb ≤ +60 °C

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Director Operations, UK & Industrial Europe

Signature:
(for printed version)

Date:
(for printed version)

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:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **Detectronic Limited**
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16 Lindred Road
Brierfield, Nelson
Lancashire BB9 5SR
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Manufacturing locations: **Detectronic Limited**
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16 Lindred Road
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United Kingdom

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

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/CSAE/ExTR24.0059/00](#)

Quality Assessment Report:

[GB/SIR/QAR08.0019/15](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The LIDoTT Sensor is a level (distance) measuring device for use within the sewer networks. It is housed in a custom plastic moulded case and designed for connection to suitable certified associated equipment. The LIDoTT Sensor will be fastened to the sewer wall by means of a bracket and bolts.

The device has three sensors (piezo, pressure and temperature) mounted in the base (transducer plate) of the case and the LIDoTT Sensor communicates and is powered by a connecting cable exiting from the top of the housing.

The LIDoTT contains, a Tadiran SL2780 or Tadiran SL2880 or Xeno XL-205F as an auxiliary supply, contained within the enclosure.

The equipment has the following safety description:

Ui = 13.65V
Ii = 150 mA
Pi = 0.65W
Ci = 0
Li = 0

Incorporating the following changes:

1. Addition of alternative safety components.
2. Addition of alternative non-safety components.
3. Removal of components erroneously identified as safety components.
4. Alternative potting compounds added.

Conditions of Manufacture

1. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
2. The LIDoTT Sensor is designed in accordance with general electrical safety standards e.g. IEC 60950 or IEC 61010-1

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth. This is particularly important if the equipment is installed in a Zone 0 location.
2. Only Tadiran SL2780, SL2880 or Xeno XL-205F batteries may be used as an auxiliary supply. This must only be changed when it can be proved that the local atmosphere contains no hazardous gas and must be changed by a suitably authorised person.