

DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

[2] **EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**

[3] EC-Type Examination Certificate Number: **DNV 11 ATEX 02569X** Rev. 1

[4] Equipment or Protective System: **IR3Flame Detector type ZT-500EX**

[5] Applicant – Manufacturer or Authorized representative: **GLT EXPORTS LIMITED**
[6] Address: **Block 3BA 630, SHIWHIA IND. Complex,
72-78, MORFA ROAD, SWANSEA, SA12EN,
UNITED KINGDOM**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in section 14.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2006 and EN 60079-1:2007

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.

[12] The marking of the equipment or protective system shall include the following:

 **II 2 G Ex d IIC T6 - 40 °C ≤ T_{amb} ≤ 75 °C**

Høvik, 2011-09-19
for Det Norske Veritas AS


Marianne Spæren
Certification Manager

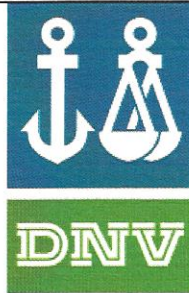


Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The digitally signed and electronically distributed document is the original and valid certificate. Ref.: www.dnv.com/digitalsignatures

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.





[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV 11 ATEX 02569X

Rev. 1

Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2011-3357	2011-09-09
1	Missprint corrected.	2011-3357	2011-09-19

[15] **Description of Equipment or Protective System**

The flame detector type ZT-500EX comprises a flameproof enclosure made of aluminium (A16061). The enclosure has a body and lid. There is a glass cemented in the lid. The enclosure has one cable entry. This is a threaded hole for use with a M20 cable gland. The enclosure has been tested with 4 times the reference pressure. No routine pressure test is required.

Type Identification

ZT-500EX

Electrical Data

24VDC, 0.84W norm, 1.68W max.

Degrees of protection (IP Code)

IP 67

[16] **Project No.:** PRJC-336673-2011-PRC-KOR

Descriptive Documents

Number	Title	Rev.	Date
VS-EX-750165	ZT-500EX NAME PLATE	A	2011.08.04
VS-EX-750100	FX-500EX HOUSING ASSY	A	2009.11.05
VS-EX-720120	FX-20/500EX MIDDLE COVER ASSY	A	2009.11.05
VS-EX-720140	FX-20/500EX BACK COVER ASSY	A	2009.11.05
VS-EX-750110	FX-500EX FRONT COVER ASSY	A	2009.11.05

[17] **Special Conditions for Safe Use**

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN 60079-1.

[18] **Essential Health and Safety Requirements**

See part 9 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

