




# 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 12 ATEX 1338X**
- [4] Equipment or Protective System: **UV/IR FLAME DETECTOR type RFD-2FT\***
- [5] Applicant – Manufacturer or Authorized representative: **REZONTECH CO., LTD.**
- [6] Address: **805, Megavally, 268, Hakeui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Korea**
- [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: 2009, EN 60079-1: 2007 and EN 60079-31:2009**
- [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 GD Ex d IIC T6/T5 Gb - 40 °C ≤ T<sub>amb</sub> ≤ 65 °C / -40°C ≤ Ta ≤ 75°C**  
**Ex t IIIC T85°C/T95°C Db**

Høvik, 2012-10-29  
for Det Norske Veritas AS

  
\_\_\_\_\_  
**Haakon Knudsen**  
*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](http://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 12 ATEX 1338X

### Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2012-9483	2012-10-29

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

The flameproof enclosures UV/IR FLAME DETECTOR type RFD-2FT\* has been tested according to EN 60079-0:2009, EN60079-1:2007 and EN 60079-31:2009. The flame detector type RFD-2FT\* comprises a flameproof enclosure made of aluminium Al6061. The enclosure has a body and lids. There is a glass cemented in the lid. The enclosure has one cable entry. This is a threaded hole for use with M20 or NPT ½". The enclosure has been tested with 4 times the reference pressure. No routine pressure test is required.

\* is identified by a color code as follows:

N: Metal, N-1: Gold, 5-1: Blue

### Electrical Data

24VDC, 70mA

### Degrees of protection (IP Code)

IP 66 / IP 67

[16] **Project No.:** PRJC-343436-2011-PRC-KOR

### Descriptive Documents

Number	Title	Rev.	Date
Ex-ENG-2FT-000-01	Assembly	A	2012-02-17
Ex-ENG-2FT-001-01	Body	A	2012-02-17
Ex-ENG-2FT-002-01	Cover	A	2012-02-17
Ex-ENG-2FT-003-01	Glass	A	2012-02-17
Ex-ENG-2FT-004-01	Window Cover	A	2012-02-17
Ex-ENG-2FT-005-01	Glass guide	A	2012-02-17
Ex-ENG-2FT-006-01	Name Plate & Label	A	2012-02-17
Ex-ENG-2FT-007-01	O-Ring	A	2012-02-17
Ex-ENG-2FT-008-01	Molding compound	A	2012-02-17

[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/IEC 60079-1.

The tensile strength of the fastener elements of each part of the flame proof casing must be at least equal to 600 N/mm<sup>2</sup>.

[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.