



# DET NORSKE VERITAS

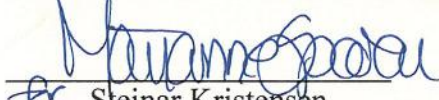
## EC-TYPE EXAMINATION CERTIFICATE

- [2] **EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DNV 09 ATEX 72779X**
- [4] Equipment or Protective System: **ALPHA series Limit Switch**
- [5] Applicant – Manufacturer or Authorized representative: **Alpha Controls Ltd.**
- [6] Address: **Alpha House, Hindley Industrial Estate, Swan Lane, Hindley Green, Wigan, Greater Manchester, WN2 4HR - UK**
- [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 report no. : **2009-3294 rev. 02**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0: 2006 and EN 60079-1: 2004**
- [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 IIB T6**

This EC-Type Examination certificate is valid until 2019-09-21

Høvik, 2010-04-19  
for Det Norske Veritas Certification AS

  
Steinar Kristensen  
Certification Manager



  
Håkon S. Håkonsen  
Technical Reviewer

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

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 09 ATEX 72779X

### Certificate History

Revision	Description	Issue date
-	Original certificate	2010-04-19

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

The ALPHA series limit switch is used for the position indication and feedback signal of automatic control system. The equipment comprises a flameproof enclosure including a shaft operating the indication device. The enclosure may be of Stainless Steel or Aluminium.

### Type Identification

ALS-500M Aluminium Alloy Enclosure

ALS-600M Stainless Steel Enclosure

### Electrical Data

125 – 250 VAC, 15 A

### Degrees of protection (IP Code)

IP66

### Routine tests

Each enclosure must be routine pressure tested with 15 bar for 60 seconds according to clause 16 of EN 60079-1

[16] **Report No.:** 2009-3294 rev. 02

**Project No.:** PRJC-192242-2009-PRC-CHN



### Descriptive Documents

Number	Title	Rev.	Date
ALS500-000	Assembly drawing	-	2009-02-08
ALS600-000	Assembly drawing	-	2009-12-10
ALS500-001	Body ( 2 sheets)	-	2009-02-08
ALS500-002	Cover	-	2009-02-08
ALS600-001	Body (2 sheets)	-	2009-12-10
ALS600-002	Cover	-	2009-02-08
ALS210-013	Indicator O-ring	-	2009-02-08
ALS210-015	Shaft O-ring	-	2009-02-08
ALS400-007	Shaft Sleeve	-	2009-02-08
ALS500-003	Body O-ring	-	2009-02-08
ALS500-007	Shaft	-	2009-02-08
ALS500-010	Label	-	2009-05-02
ALS500-014	Earthing label	-	2009-02-08
ALS500-015	Warning label	-	2009-02-08
ALS600-005	Body O-ring	-	2009-02-08
ALS500-010	Label	-	2010-03-10

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**[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

