



1 **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: **Baseefa04ATEX0114X**

4 Equipment or Protective System: **THE TYPE 672DE** HIGH PRESSURE DIFFERENTIAL SWITCH**

5 Manufacturer: **CUSTOM CONTROLS SENSORS INCORPORATED**

6 Address: **21111 Plummer Street, Chatsworth, California 91311, USA**

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 Baseefa (2001) Ltd., Notified Body number 1180, in accordance with Article 9 of the 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. 03(C)0339

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2004

EN 60079-1: 2004

EN 50281-1-1: 1998 + Amendment 1

except in respect of those requirements listed at item 18 of the Schedule.

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 protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

⊕ II 2 GD Ex d IIC T85°C (T_{amb} -34°C to +71°C) and T100°C (T_{amb} -34°C to +86°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 0253

Project File No. 03/0339

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0114X

15 Description of Equipment or Protective System

The Type 672DE** High Pressure Differential Switch rated as specified on the certificate schedule drawings with a maximum inlet pressure of 3000p.s.i. comprises a two part rectangular stainless steel enclosure, incorporating in its upper part, a threaded sealed switch assembly screwed into a thread provided and secured by a grub screw.

The lower part of the enclosure incorporates an inlet process pressure or temperature actuator mechanism in a vented adjustment chamber which serves to operate a push rod which passes through the wall between the upper and lower parts of the enclosure.

The switch assembly comprises a welded stainless steel body incorporating potted integral cabling, operating diaphragm and a single or double switch device.

One core of the integral cabling is connected to the body of the switch assembly internally and an external earth facility is provided.

The equipment provides ingress protection to IP66 and IP67 in accordance with EN 60529: 1991.

The type reference for the equipment includes provision to add as a suffix various letters and numbers denoting the range and type of switch.

Variation 0.1

Optional alternative arrangements incorporating 3-wire or 6-wire potted integral cabling. These arrangements do not include an internal earth connection and the provision of a suitable earth arrangement is the responsibility of the user.

16 Report Number

Baseefa Certification Report No 03(C)0339

17 Special Conditions for Safe Use

1. It shall be the responsibility of the user to ensure that the integral cabling is suitably protected against mechanical damage and terminated in a suitable junction or terminal facility which will maintain the ingress protection of the enclosure.
2. It shall be the responsibility of the user to ensure proper and effective arrangements are made for the earthing of the 3 wire and 6 wire versions of this equipment either by using the external earth facility provided as the means for effective earth fault protection and equi-potential bonding functions or some equally effective means.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
672DE**	1	H	10/04	General Arrangement
672DE**	2	H	10/04	Body Detail
672DE**	3	H	10/04	Parts List
672DE**	4	H	10/04	Switch Assembly Detail
672DE**	5	H	10/04	Electrical Ratings & Certification Label



Flameproof Certification

Pressure Test Certificate

Certificate issued to **Custom Control Sensors Incorporated**
Address **21111 Plummer Street, Chatsworth, California 91311, USA**

A representative sample of the equipment covered by certificate Baseefa04ATEX0114X has been satisfactorily subject to a pressure test at 30 bar.

Provided that adequate quality control and inspection is maintained during subsequent production, equipment manufactured to this certificate, including supplementaries, need not be subject to the routine individual pressure test that would otherwise be required by the standard to which it has been certified.

This certificate applies only to the potted cable entry of the switch housing.

This certificate is valid until 10 March 2006 unless earlier revoked or suspended.

Baseefa Customer Reference No. **0253**

Project File No. **03/0339**

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List of certificates covered by Baseefa ATEX QA Notification: 0253

held by: Custom Control Sensors Inc

Baseefa03ATEX0699X Baseefa03ATEX0700X

Baseefa04ATEX0114X

Baseefa05ATEX0011X

Date: 05 April 2005