



1           **EC TYPE-EXAMINATION CERTIFICATE**

2           Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3           Certificate Number:     SIRA99ATEX3174U

4           Component:     ZAG Range of Enclosures

5           Applicant:     AB Controls & Technology

6           Address:     Sanderson Street  
                          Lower Don Valley  
                          Sheffield  
                          S9 2UA

7           This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8           Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

            The examination and test results are recorded in confidential report number R51X6055D.

9           Compliance with the Essential Health and Safety Requirements, with exception to those listed in the schedule to this certificate, has been assured by compliance with the following documents:

            EN 50014:1997 (amendments A1 to A2)  
            EN 50019:1994  
            EN 50281-1-1:1998

10          The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

M D Shearman  
Certification Manager

Project Number   51X6055  
Date              18 January 2000  
C. Index         04

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**Sira Certification Service**

Rake Lane, Ecclestone, Chester, CH4 9JN, England  
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Email: exhazard@siratc.co.uk



**EC-TYPE EXAMINATION CERTIFICATE NUMBER**

SIRA99ATEX3174U

- 11 This EC Type-Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.
- 12 The marking of the component shall include the following:



II 2 G D  
EEx e II

Date 18 January 2000

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**SCHEDULE**

**EC-TYPE EXAMINATION CERTIFICATE NUMBER**

SIRA99ATEX3174U

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**DESCRIPTION OF COMPONENT**

The ZAG range of enclosures are manufactured from aluminium alloy in the following sizes:

<b>ZAG Reference</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Height (mm)</b>
2	58	64	36
3	98	64	36
4	150	64	36
5	75	80	57
6	125	80	57
7	175	80	57
9	122	120	80
10	220	120	80
11	160	160	90
12	260	160	90
13	360	160	90
15	202	232	114
16	332	232	113

The enclosures may also be manufactured in sizes not specified in the table. This assumes that any given dimension is not larger than the respective dimension of the largest enclosure or smaller than the respective dimension of the smallest enclosure.

The enclosure lids may be hinged or detachable and are retained with captive screws. The enclosures are sealed to IP66 by gaskets of closed cell polychloroprene or closed cell silicone rubber.

Entries may be provided either through the sides or the rear of the enclosure and external and internal earthing facilities are provided.

14 **DESCRIPTIVE DOCUMENTS**

<b>Drawing No.</b>	<b>Sheet</b>	<b>Rev.</b>	<b>Date</b>	<b>Title</b>
ABT 10261	1 of 1	A	21 Dec 99	External Label (ZAG)
ABT 10307	1 of 1	A	16 Nov 99	ZAG Enclosures
ABT 10306	1 of 1	A	16 Nov 99	ZAG Manufacturing Specification

14.2 Report No. R51X6055D

Date 18 January 2000

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**SCHEDULE**

**EC-TYPE EXAMINATION CERTIFICATE NUMBER**

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15 **SPECIAL CONDITIONS FOR SAFE USE** (*denoted by X after the certificate number*)

None

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSR'S)**

The table below lists all relevant EHSR's not addressed by the standards listed in this certificate. These EHSR's have been assessed in Report No. R51X6055D.

<b>Annex II Clause Number</b>	<b>Title</b>
1.0.2	Analysis of possible operating faults
1.1.2	Effect of explosive atmosphere on materials
1.1.3	Changes in characteristics of materials and combinations thereof
1.4.2	Withstanding attack by aggressive substances

17 **CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of SCS Certificates.

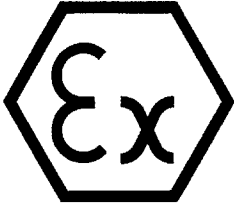
17.2 Suitably certified Ex e equipment such as breathing devices and blanks may be fitted to the enclosure providing the enclosure maintains compliance with BS EN 60529:1992 code IP64 or better.

Date 18 January 2000

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## EC TYPE-EXAMINATION CERTIFICATE VARIATION

**CERTIFICATE NUMBER** Sira 99ATEX3174U Dated 18 January 2000

**VARIATION NUMBER** 1 (ONE) Dated 28 September 2001

### VARIATION TO COMPONENT

To permit:

- 1 A minor revision of the information marked on the label.

### DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
ABT 10261	1 of 1	B	23 July 01	External Label (ZAG)

### ADDITIONAL CONDITIONS OF CERTIFICATION

None

**File No** 53V7936

**Report No.** NA

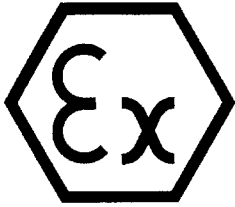
**M D Shearman**  
Certification Manager

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## EC TYPE-EXAMINATION CERTIFICATE VARIATION

**CERTIFICATE NUMBER** Sira 99ATEX3174U Dated 18 January 2000

**VARIATION NUMBER** 2 (TWO) Dated 30 October 2001

### VARIATION TO COMPONENT

To permit:

- 1 A ZAG10/9 enclosure to be included in the range; this enclosure has a deeper lid when compared to the ZAG10.

ZAG Reference	Length (mm)	Width (mm)	Height (mm)
10/9	220	120	90

### DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
ABT 10307	1 of 1	B	26 Oct 01	ZAG Enclosures

### ADDITIONAL CONDITIONS OF CERTIFICATION

None

**M D Shearman**  
Certification Manager

**File No** 53V8484

**Report No.** NA

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