



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 03ATEX1507** Issue: **2**

4 Equipment: **AJAX Type 1871X Switch Enclosure**

5 Applicant: **F. Bamford (Instruments) Limited**

6 Address: Ajax Works
Whitehill St. West
Stockport
Cheshire SK4 1NT
England

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

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

EN 50014:1997 including amendments A1 and A2 EN 50018:2000 including amendment A1

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



I M2
II 2 G
EEx d I
EEx d IIB+H₂ T6
(Ta = -20°C to +50°C)

Project Number 2561

Signed: 

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 03ATEX1507
Issue 2

13 DESCRIPTION OF EQUIPMENT

The **TYPE 1871X SWITCH ENCLOSURE** comprises a housing cast from either stainless steel (grade 316C16 to BS3100) or gunmetal (grade LG2 or LG4 to BS1400) and has a flat flanged cover that is secured using four stainless steel socket cap set screws (grade A2-70 to BS6105). The enclosure contains one or two microswitches rated at 250 Vac, 15 A or 440 Vac 10 A. The actuating rods are constructed from manganese bronze (grade CZ114 to BS 2874) or stainless steel (grade 316).

The microswitches are operated by linear action from adaptors attached to the enclosure using threaded joints locked with adhesive. Different versions of the adaptor are used to sense pressure, temperature, level or flow. A reference number added to the type number indicates the type of adaptor fitted.

Cable entry holes are provided as specified on the certified drawings for the accommodation of suitably certified flameproof cable entry devices, with or without the interposition of suitably certified flameproof thread adaptors. The cabling methods must be suitable for the conditions of use. Any unused cable entries must be closed by a suitably certified blanking plug. Both internal and external earth facilities are provided.

Variation 1 - This variation introduced the following changes:

- i. The extension of the upper ambient service temperature from +40°C to +50°C was approved

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	28 November 2003	R51A10143A	The release of the prime certificate.
1	07 June 2011	R24904A/00	This Issue covers the following changes: <ul style="list-style-type: none">• All previously issued certification was rationalised into a single certificate, Issue 1, Issues 0 to 1 referenced above is only intended to reflect the history of the previous certification and has not been issued as a document in this format.• The introduction of Variation 1
2	15th October 2019	2561	<ul style="list-style-type: none">• Transfer of certificate Sira 03ATEX1507 from Sira Certification Service to CSA Group Netherlands B.V..• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in</i>

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			<i>accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>
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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** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

Certificate Annexe



Certificate Number: Sira 03ATEX1507
Equipment: AJAX Type 1871X Switch Enclosure
Applicant: F. Bamford (Instruments) Limited

Issue 0

Drawing	Sheet	Rev.	Date	Title
321/1871	1 of 1	L	17 Jun 03	General Assembly Switch Housing
321Z1997	1 of 1	E	23 Jun 03	Certification Plate
321Q2002	1 of 1	E	27 May 03	Adaptor for Flow Indicator/Level Switches
321Q2003	1 of 1	E	27 May 03	Adaptor for Temperature/Pressure Switches
321Q2017	1 of 1	G	27 May 03	Adaptor for Cartridge Type Pressure Switches
321Q2018	1 of 1	G	27 May 03	Adaptor for Short Probe Temperature/Pressure Switches
321Q2019	1 of 1	F	27 May 03	Adaptor for Long Probe Temperature Switches
321H2148	1 of 1	A	03 Jun 03	Double Switch Assembly of PCB Version Switchbox
321Q2150	1 of 1	C	27 May 03	Adaptor for Long Probe Temperature Switches
321Q2151	1 of 1	C	27 May 03	Adaptor for Flow Indicators, Temperature and Level Switches
321Q2152	1 of 1	C	27 May 03	Adaptor for Short Probe Temperature/Pressure Switches
321/2175	1 of 1	C	10 Jun 03	General Assembly of Switch Housing PCB Version
321Q2176	1 of 1	C	27 May 03	Adaptor for Temperature / Pressure Switches
321H2202	1 of 1	A	10 Jun 03	Switch Box Assembly, PCB Version
321H2203	1 of 1	A	10 Jun 03	Single Switch Assembly of PCB Version Switchbox

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
321Z1997	1 of 1	F	23 May 11	Certification Identification Plate

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