



UNITED KINGDOM CONFORMITY ASSESSMENT

UKCA UK TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

Certificate Number: **CSAE 22UKEX1137X** Issue: **0**
Product: **Controller Type P8/IS/X** (where X refers to different model variants)
Manufacturer: **Hawker Electronics Ltd.**
Address: **57, The Avenue
Rubery Industrial Estate
Birmingham
West Midlands
B45 9AL
United Kingdom**

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

CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. The examination and test results are recorded in the confidential reports listed in Section 14.2.

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

EN IEC 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

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

This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of this product shall be in accordance with Regulation 41 and include the following:



II (1)G
[Ex ia Ga] IIC
Tamb = -20°C to +50°C

Name: M Halliwell

Title: Director of Operations



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Certificate No. CSAE 22UKEX1137X
CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK
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SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

CSAE 22UKEX1137X

Issue 0

13 DESCRIPTION OF PRODUCT

The equipment is a control unit that is intended for use as part of a liquid level control system. It is associated apparatus for installation in a safe area and provides an intrinsically safe galvanically isolated interface to a hazardous area. It consists of a 'controller' p.c.b. assembly and a 'barrier' p.c.b. assembly housed in a polycarbonate enclosure. External connections are made via two terminal blocks, one for the safe area connections the other for the hazardous area connections.

The controller is intended to be used only in dry, clean and well controlled environments.

The equipment has the following parameters/ratings:

Hazardous Area Terminals

	P1 w.r.t G and P2 w.r.t. G	P1 + P2 w.r.t. G	P1 w.r.t. P2
U _o	11.5V	11.5V	23V
I _o	17.8mA	35.6mA	17.8mA
P _o	0.05W	0.1W	0.1W

	Group IIC	Group IIB	Group IIA
C _o	0.143μF	1.03μF	3.71μF
L _o	27.8mH	102.0mH	213.7mH
L _o /R _o	250μH/Ω	947μH/Ω	1786μH/Ω

Safe Area Terminals

L, N	U _m = 250V Supply 230VAC or 110Vac or 24Vac as appropriate
NC, C, NO	U _m = 250V Internal relay contacts rated 277VAC / 30VDC, 10A These contacts shall not switch more than 5A r.m.s. or 250V r.m.s. or 100VA

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	26 July 2022	R80117573A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 The supply circuits to the equipment shall be limited to overvoltage Category I/II as defined in IEC 60664-1.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.



SCHEDULE

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Issue 0

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.
- 17.2 The transformers incorporated in the equipment shall be subjected to routine voltage tests of 2500V r.m.s for 60s between all primary windings connected together and all secondary windings connected together in accordance with Clause 11.2 of EN 60079-11:2012. Alternatively, the tests may be carried out at 3000V r.m.s. for 1s.



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Certificate Annexe

Certificate Number: CSAE 22UKEX1137X
Product: Controller Type P8/IS/X (where X refers to different model variants)
Manufacturer: Hawker Electronics Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
2908	1 of 3	B	04 Jul 03	Barrier P.C.B - Circuit Schematic
2908	2 of 3	A	04 Jul 03	Barrier P.C.B - Layout
2908	3 of 3	A	04 Jul 03	Barrier P.C.B - Mechanical Details
3452	1 of 1	B	03 May 22	P8/IS Controller & Label Details General Arrangement
3453	1 of 1	A	23 Nov 17	Relay
3438	1 of 3	B	23 Nov 17	Controller P.C.B - Circuit Schematic
3438	2 of 3	B	23 Nov 17	Controller P.C.B. - Layout
3438	3 of 3	B	23 Nov 17	Controller P.C.B. - Mechanical Details
3451	1 of 1	B	08 Jan 19	Transformer



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