Certificate Annexe

Certificate Number: Sira 04ATEX2032

Equipment: Encoder Hazardous Area Interface Types AA, AB, AC & AD

Applicant: Hohner Automation Limited

Issue 0

Number	Sheet	Rev.	Date	Description
EEx-ia-IIB-INC-INT-01	1 of 1	1.0	08 Mar 04	Label
EEx-ia-IIB-T4-IS-BARRIER-CCT-02	1 of 1	1.0	16 Feb 04	Schematic
GA-INC-IIB-BARRIER-01	1 of 1	1.1	11 Mar 03	General assembly
HE-INTF-ART	1 to 2	1.0	13 Feb 04	Artwork
HE-INTF-PARTS	1 to 2	1.0	13 Feb 04	Silkscreen

Issue 1

Number	Sheet	Rev.	Date	Description
GA-INC-IIB-Barrier-TB-01	1 of 1	1.1	05 Jul 05	General assembly drawing for standard IIB barrier 6 channel I.S. Encoder Interface
EEx-ia-IIB-T4-IS-Barrier-CCT-TB-01	1 of 1	1.0	05 Jul 04	IIB Encoder Zener Interface Schematic (with terminal blocks)

Issue 2

No new drawings were introduced.

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13 DESCRIPTION OF EQUIPMENT

The Encoder Hazardous Area Interface is associated apparatus designed to provide power and optically-isolated signal outputs to a Hohner shaft encoder in the hazardous area. The Interface is housed in a non-conducting enclosure manufactured from a plastics material. The interface circuitry is on a single PCB, which is completely encapsulated within the housing apart from one fuse, which is not a safety component. The maximum non-hazardous area fault voltage (U_m) is 250 Vac.

There are four versions of the interface, with different safety descriptions as follows:

	Types AA & AC	Types AB & AD
U_0	14.0 V	27.72 V
I_0	98 mA	98 mA
P_0	343 mW	675 mW
C_0	4.588 µF	647 nF
L_0	200 µH	200 µH

The AA and AB versions are line driver output types whereas the AC and AD versions are sink open collector output types.

Variation 1 - This variation introduced the following changes:

i. Terminal blocks were allowed to be used as an alternative to the D type connectors.

ii. A plastic DIN Rail adaptor that is fitted to the base of the equipment was included.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	16 March 2004	R52A10626A	The release of the prime certificate.
1	12 July 2005	R52A13688A	The introduction of Variation 1.
2	12 September 2007	N.A.	This Issue covers the following changes: • All previously issued certification was rationalised into a single certificate, Issue 1, Issues 0 and 1 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format. • The correction of a typographical error.

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE **Sira 04ATEX2032**
Issue 2

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.

17 **CONDITIONS OF CERTIFICATION**

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

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 The wires from the terminal blocks shall be routed such that they do not 'run over' the PCB prior to encapsulation.

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