IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 06.0062 issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2006-11-02** Page 1 of 3

Applicant: **Hohner Automation**
Units 14-16
Whitegate Industrial Estate
Wrexham LL13 8UG
United Kingdom

Electrical Apparatus: **Encoder Hazardous Area Interface Types AA, AB, AC and AD**
Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking: **[Ex ia] IIB; Ta= -20°C to +60°C**

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Certification Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

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Manufacturer: **Hohner Automation**
Units 14-16
Whitegate Industrial Estate
Wrexham LL13 8UG
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/SIR/ExTR06.0105/00

Quality Assessment Report:
GB/SIR/QAR06.0038/00

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

The Encoder Hazardous Area Interface is associated apparatus designed to provide an intrinsically safe power supply and optically-isolated signal connections to a Hohner shaft encoder in the hazardous area. The Interface is housed in a non-conducting enclosure manufactured from a plastics material. There is a DIN-rail adapter on the base of the device. Connections may be made by means of D-type or screw-type connectors.

The interface circuitry is on a single PCB, which is completely encapsulated within the housing apart from the two connectors, one fuse (which is not a safety component) and seven indication LEDs.

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
Uo	14.0 V	27.72 V
Io	98 mA	98 mA
Po	343 mW	675 mW
Co	4.588 mF	647 nF
Lo	200 mH	200 mH

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

The device is a shunt zener diode interface and requires connection to a suitable intrinsically safe earth.

CONDITIONS OF CERTIFICATION: NO