

 IECEX Certificate of Conformity			
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEX Scheme visit www.iecex.com</small>			
Certificate No.:	IECEX SIR 06.0061 issue No.:1		
Status:	Current Certificate history: Issue No. 1 (2007-6-1) Issue No. 0 (2006-10-4)		
Date of Issue:	2007-06-01 Page 1 of 4		
Applicant:	Hohner Automation Units 14-16 Whitegate Industrial Estate Wrexham LL13 8UG United Kingdom		
Electrical Apparatus:	DIN19234 Shaft Encoder		
Optional accessory:			
Type of Protection:	Intrinsically safe		
Marking:	Ex ia I; Ex ia IIC T4 Ta= -40°C to +100°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: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> SIRA Certification Service South Hill Chislehurst Kent BR7 5EH United Kingdom </td> <td style="width: 50%; text-align: center; vertical-align: middle;">  </td> </tr> </table>		SIRA Certification Service South Hill Chislehurst Kent BR7 5EH 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 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 3.1
IEC 60079-11 : 1999 Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'I'
Edition: 4
IEC 60079-26 : 2004 Electrical apparatus for explosive gas atmospheres - Part 26: Construction, test and marking of Group II Zone 0 electrical apparatus
Edition: 1

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/EXTR06.0090/00](#)
[GB/SIR/EXTR07.0039/00](#)

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 DIN19234 shaft encoder is used to indicate the angular movement of a shaft. Movement is detected optically by shining light produced by LEDs through a graduated disc that rotates with the shaft. The circuitry is contained on an assembly comprising three printed circuit boards, housed in a non-conducting holder, which is itself installed in an outer enclosure; this may be metallic (Group I and Group II) or plastic (Group II only). The equipment is supplied with a flying lead. The enclosure is generically defined and may vary in size and material: plastic and metallic enclosures are permitted but it is a condition of manufacture that plastic enclosures are not marked for Group I use. The encoder is intended to be powered from separate supplies. Each channel of the encoder has the following safety description (It is not necessary for the two supplies to be separate intrinsically safe circuits):

U_i = 13.7 V
I_i = 63 mA
P_i = 0.283 W
C_i = 0
L_i = 0

The manufacturer shall note the Conditions of Manufacture detailed on associated drawings and ExTR.

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 4 introduced the following changes:

1. The lower ambient temperature to be decreased from -20°C to -40°C, the marking is changed accordingly.