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 EXV 15.0002X	Issue No: 0	Certificate history: Issue No. 0 (2015-11-23)
Status:	**Current**	Page 1 of 4	
Date of Issue:	**2015-11-23**		

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

Electrical Apparatus: **Optical Shaft Encoder**

Optional accessory:

Type of Protection: **Flameproof "d", Equipment dust ignition protection by enclosure "t"**

Marking:

Ex db IIC T5 Gb

Ex db I Mb

Ex tb IIIC T92°C Db

Ta -20°C to +60°C or -40°C to +60°C

Approved for issue on behalf of the IECEx Certification Body: S L Clarke CEng MSc MIET

Position: Certification Manager

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:

IECEx Certificate of Conformity

Certificate No: IECEx EXV 15.0002X Issue No: 0

Date of Issue: **2015-11-23** Page 2 of 4

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom

IECEx Certificate of Conformity

Certificate No:	IECEx EXV 15.0002X	Issue No: 0
Date of Issue:	**2015-11-23**	Page 3 of 4

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

Additional Manufacturing location(s):

These products may be manufactured at any Hohner Automation Facility listed on Quality Assessment Report GB/SIR/QAR06.0038 that has been audited for the manufacture of the type of protection listed

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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/EXV/ExTR15.0002/00	GB/SIR/ExTR06.0075/00	GB/SIR/ExTR09.0182/00
GB/SIR/ExTR10.0107/00	GB/SIR/ExTR13.0170/00	

Quality Assessment Report:

GB/SIR/QAR06.0038/00	GB/SIR/QAR06.0038/01	GB/SIR/QAR06.0038/02
GB/SIR/QAR06.0038/03	GB/SIR/QAR06.0038/04	GB/SIR/QAR06.0038/05
GB/SIR/QAR06.0038/06	GB/SIR/QAR06.0038/07	GB/SIR/QAR06.0038/08

IECEx Certificate of Conformity

Certificate No:	IECEx EXV 15.0002X	Issue No: 0
Date of Issue:	2015-11-23	Page 4 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The R and M Series Optical Shaft Encoders are manufactured from stainless steel; they are cylindrical in shape and comprise a main body and a cover. The cover is secured to the main body by five, M3, socket head cap screws. The main body contains a PCB assembly and has options for up to three M16, M20 or M25 threaded entries either in its sidewall (radial) and/or three towards its base (axial). The cover contains a shaft and bearing assembly to facilitate the equipment's measuring function. There is an optional dual compartment version, which contains a PCB/connector assembly to allow the user access via a top cover. The top cover has options for up to three M16 threaded entries.

Fasteners used to secure the end caps which form spigot joints on the enclosures are of the hexagon socket head type and are made of 316 stainless steel (A4-70) with a minimum yield stress of 450 N/mm Squared.

R series are typically 72mm in diameter

M series are typically 82mm in diameter

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Fasteners shall be hexagon socket head type, 316 stainless steel (A4-70) and with a minimum yield stress of 450 N/mm^2
2. Flameproof joints are not intended to be repaired

Annex:

IECEx Certificate Annex.pdf

Manufacturer's documents:				
Title:	Drawing No.:	Rev	Sheets	Date:
Title:	Drawing No.:	Rev. Level:	Sheets	Date:
R/M Series Assembly	RR-AS-001-03	3	1 of 5	2015/11/06
R/M Series Body	RR-BD-001-03	3	2 of 5	2015/11/06
R/M Series Lid	RR-LD-001-03	3	3 of 5	2015/11/06
R/M Series Shaft	RR-SS-001-03	3	4 of 5	2015/11/06
R/M Series Label	RR-LB-001-03	3	5 of 5	2015/11/06
M Series Lid for Profibus Openable	ME-LD-PBS-02	2	1 of 1	2015/11/06
M Series Top Lid for Profibus Openable	ME-TL-PBS-02	2	1 of 1	2015/11/06

ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.