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 BVS 13.0079X

Issue No: 1

Certificate history:
Issue No. 1 (2018-04-16)
Issue No. 0 (2013-07-24)

Status: **Current**

Date of Issue: **2018-04-16**

Applicant: **Reineke Meß- und Regeltechnik GmbH**
Von-Ebner-Eschenbach-Str. 5
44807 Bochum
Germany

Equipment: **Solenoid type 700 EEx**

Optional accessory:

Type of Protection: **Equipment protection by encapsulation "m"**

Marking:
Ex mb IIC T5 Gb

Approved for issue on behalf of the IECEx Certification Body: Jörg Koch

Position: Head of Certification Body

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
On the safe side.

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Manufacturer: **Reineke Meß- und Regeltechnik GmbH**
Von-Ebner-Eschenbach-Str. 5
44807 Bochum
Germany

Additional 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 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 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”

*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:

DE/BVS/ExTR13.0084/01

Quality Assessment Report:

DE/BVS/QAR11.0012/04

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type
Solenoid type 700 EEx

Description
The single coil solenoid type 700 EEx is part of an electric-hydraulic servo valve. In the first stage of the two-stage servo valve the solenoid is used to operate an adjust cylinder in connection with a flapper-nozzle-system to transform electric-hydraulic signals.

The electric-hydraulic servo valve itself is not part of this Certificate.

Parameters

Rated voltage	DC	max 7.5	V
Rated current		0...20	mA
	or	4...20	mA
Power consumption (at 20 mA)		100	mW
Ambient temperature range		-30 °C ≤ T_a ≤ +70 °C	
Rated current of the external fuse		32	mA

SPECIFIC CONDITIONS OF USE: YES as shown below:

Each solenoid has to be fitted with an external fuse for the purpose of short circuit protection. The fuse shall be capable to break a short circuit current up to 1500 A where the rated voltage does not exceed 250 V.

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

- Updating of the standards