

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 16.0010	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2016-03-11	Page 1 of 4	
Applicant:	holthausen elektro Wevelinghoven 38 41334 Nettetal Germany	onik GmbH	
Electrical Apparatus: Optional accessory:	Transmitter type ES	W-small Ex-i M 10-**	
Type of Protection:	Equipment protection	on by intrinsic safety "i"	
Marking:	Ex ia IIC T4 Gb		
Approved for issue on b Certification Body:	pehalf of the IECEx	HCh. Simanski	
Position:		Head of Certification Body	
Signature: (for printed version)		1.0 f. h.	
Date:		113 2016	

Certificate issued by:

DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Germany





Certificate No.:

IECEX BVS 16.0010

Date of Issue:

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Issue No.: 0

Page 2 of 4

Manufacturer:

holthausen elektronik GmbH

Wevelinghoven 38 41334 Nettetal 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 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

Explosive atmospheres - Part 0: General requirements

Edition: 6.0

IEC 60079-11 : 2011

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

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/ExTR16.0014/00

Quality Assessment Report:

DE/TUR/QAR12.0002/01



Certificate No.:

IECEx BVS 16.0010

Date of Issue:

2016-03-11

Issue No.: 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

Transmitter Type ESW-small Ex-i M 10-**

In the complete type designation, the asterisks are replaced by numerals indicating different variations of the transmitter which differ in measuring range, frequency range and signal evaluation.

These variants are not relevant for explosion protection.

Description

The transmitter type ESW-small Ex-i M 10-** is an electronic vibration monitor. It is mounted to the monitored machine with a threaded bolt and transforms the vibrations into a 4-20 mA-current signal.

The transmitter is a passive intrinsically safe apparatus and is suitable for use in areas requiring EPL Gb.

All circuits have level of protection IIC ia.

The transmitter has a stainless steel enclosure with removable lid.

The electronic is molded inside the enclosure. An indication-LED is protruding from the encapsulation; it is visible after unscrewing the lid of the enclosure.

The transmitter is supplied via a permanently connected cable (max. 20 m length).

CONDITIONS OF	CERTIFICATION:	NO



Certificate No.:

IECEx BVS 16.0010

Date of Issue:

2016-03-11

Issue No.: 0

Page 4 of 4

Additional information:

Parameters

1 Electrical data

Supply and signal circuit

permanently connected cable, wires white (+) and brown (-)

 $\begin{array}{ccccc} \text{Max. input voltage} & & \text{U}_{i} & \text{DC} & 28.8 & \text{V} \\ \text{Max. input current} & & \text{I}_{i} & 125 & \text{mA} \\ \text{Max. input power} & & \text{P}_{i} & 1 & \text{W} \end{array}$

The effective capacitance Ci and effective inductance Li of the apparatus are composed of the (concentrated) capacitance and inductance of the apparatus and the parameters of the connected cable:

of the connected cable:

2 Ambient temperature range

T_a -40 °C...50 °C