

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

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Ce	rtif	icate	No:	.:

IECEx SEV 13.0011

issue No.:0

Certificate history:

Status:

Current

Date of Issue:

2013-11-14

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Applicant:

Schurter AG Werkhofstrasse 8-12 CH-6002 Luzern Switzerland

Electrical Apparatus:

Piezo Switch

Optional accessory:

Type of Protection: Intrinsic safety "ib"

Marking:

Ex ib IIC T6...5 Gb

Ex ib IIIC T85 °C...100 °C Db

Approved for issue on behalf of the IECEx

Certification Body:

Erich Obrist

Position:

Manager product certification

Signature:

(for printed version)

Date:

20013 /111

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:

Electrosuisse div. Testing and Certification Luppmenstrasse 1 CH-8320 FEHRALTORF Switzerland

electrosuisse »



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Manufacturer:

Schurter AG Werkhofstrasse 8-12 CH-6002 Luzern Switzerland

Additional Manufacturing location

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 60079-11: 2011

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety

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

CH/SEV/ExTR13.0007/00

Quality Assessment Report:

CH/SEV/QAR13.0007/00



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Schedule

EQ	UIP	ME	TIV:

Equipment and systems covered by this certificate are as follows:

PSF FX

CONDITIONS OF CERTIFICATION: NO



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Additional information:

The basic function of the piezo switch bases on the piezo electric effect. The pressure force on the piezo ceramic produce a charge transfer, which produce a voltage impulse. The voltage impulse will be amplified in the electronic and transferred to the output switch. During the voltage impulse the output switch is closed for a specific time. The switch time depends on the actuating force and speed.

Ratings:

 $U_i = 24 \text{ VAC/VDC}, I_i = 40 \text{ mA}$

 $P_i = 700 \text{ mW for T6} / 960 \text{ mW for T5}$

 $C_i = 0 \text{ nF}, L_i = 0 \mu H$

Classification of installation and use: stationary

Ingress protection: IP67

Rated ambient temperature range: -20 °C to +60 °C

Rated service temperature range for Ex Components: -20 °C to +60 °C

