

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 17 ATEX 8047 X

Issue: 01

- (4) Equipment: **Solenoid valve, type 3969-110 *******
- (5) Manufacturer: **SAMSON AKTIENGESELLSCHAFT**
- (6) Address: **Weismüllerstraße 3
60314 Frankfurt am Main, Germany**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential report 557/Ex8047.01/17
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:
- EN 60079-0: 2012+A11: 2013 EN 60079-11: 2012**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:

 **II 2 G Ex ia IIC T4/T6 Gb**

 **II 2 D Ex ia IIIC T85°C Db**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-03-12


Dipl.-Ing. Klauspeter Graffi



This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 17 ATEX 8047 X Issue: 01

(15) Description of equipment

15.1 Equipment and type:

Solenoid Valve type 3969-110 *****
Where * is not Ex relevant.

15.2 Description

The Solenoid Valve type 3969 converts binary electrical input signals into pneumatic output signals. The Solenoid Valves are used for controlling pneumatic actuators. It is an electrical apparatus with type of protection Ex ia Gb and ia Db. If supplied by a suitable associated apparatus, it can be used in hazardous areas of up to zone 1 and zone 21.

Model code:

3969-110 *****
Where * is not Ex relevant.

Details of Change:

The device was assessed to meet the requirements for

- Ex ia III C T85°C Db
- for temperature class T6

15.3 Technical Data

Electrical data:

Max. input voltage	Ui	28 V
Max. input current	Ii	115 mA
Max. input power	Pi	1 W
Effective internal capacitance	Ci	negligible
Effective internal inductance	Li	negligible

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Environmental data:

For types of protection ia Gb:

Gas group	Temperature class	Ambient temperature
IIC	T4	$-45\text{ °C} \leq Ta \leq +80\text{ °C}$
	T6	$-45\text{ °C} \leq Ta \leq +70\text{ °C}$

For Type of protection ia Db:

Dust group	Temperature class	Ambient temperature
IIIC	T85°C	$-45\text{ °C} \leq Ta \leq +70\text{ °C}$

(16) Test-Report No. 557/Ex8047.01/17

(17) Special Conditions for safe use

1. The solenoid valve has to be included into the equipotential bonding system.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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