



T R A N S L A T I O N

(1) **Statement of Conformity**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 94/9/EC**



(3) EC Type Examination Certificate Number

PTB 06 ATEX 2028 X

(4) Equipment: Model 3967-8 Solenoid Valve

(5) Manufacturer: SAMSON AG Mess- und Regeltechnik

(6) Address: Weismüllerstr. 3, 60314 Frankfurt am Main, Germany

(7) The design of this equipment and the various approved versions thereof are specified in the schedule to this type examination certificate and the documents referred to therein.

(8) The Physikalisch-Technische Bundesanstalt certifies that according to the Council Directive 94/9/EC of 23 March 1994 this equipment 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 atmospheres as specified in Annex II to the Directive.

The examination and test results are recorded in confidential report **PTB Ex 06-26109**

(9) The essential health and safety requirements are satisfied by compliance with

EN 60079-15: 2003

EN 50281-1-1:1998

(10) If the sign “X” is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use as specified in the schedule to this certificate.

(11) This Statement of Conformity relates only to the design and construction of the subject equipment according to Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment and to placing it on the market.

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(12) The marking of the equipment shall include the following:



**II 3 G EEx nA II T 6, or II 3 G EEx nL II C T 6, or
II 3 D IP 54 T 80 °C, or II 3 D IP 65 T 80 °C**

Zertifizierungsstelle Explosionsschutz

Braunschweig, 23 October 2006

By order
(Signature)

(Seal)

Dr. Ing. U. Gerlach
Oberregierungsrat

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(13) **Schedule**

(14) **Statement of Conformity PTB 06 ATEX 2028 X**

(15) **Description of Equipment**

The Model 3967-8.. Solenoid Valve converts electrical binary signals into pneumatic output signals and serves for controlling pneumatic actuators.

The solenoid valve is actuated electrically by the Model 1079-40 .. e/p Binary Converter Coil, a modified version of the Model 1079-27 .. e/p Binary Converter Coil certified under PTB 00 ATEX 2157 U. This is a passive two-pole network that is permitted to be connected to certified intrinsically safe circuits unless the admissible maximum values of U_i , I_i and P_i are exceeded.

The equipment is intended for use in hazardous areas.

The Model 3967-8 ... also complies with the requirements of electrical equipment protected by the enclosure according to EN 50281-1-:1998.

Electrical data:

By connection of suitable series resistors the Model 1079-40 .. e/p Binary Converter Coil can be connected to nominal voltages of 6 V, 12 V and 24 V.

The correlation between version, temperature classification, permissible ambient temperature ranges and maximum power dissipation is shown in the table below.

Version	U_N	6 V DC	12 V DC	24 V DC
Temperature class	T6			60 °C
	T5	- 45 °C	70 °C
	T4			80 °C
Characteristic rectangular	P _i	250 mW	(#)	
Characteristic linear	P _i	(#)	(#)	

(#) No limitations

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Schedule

Statement of Conformity PTB 06 ATEX 2028X

Electrical data

Input circuit

Type of protection EEx nA II
or EEx nL IIC

Maximum values:

$U_i = 32 \text{ V}$
 $I_i = 132 \text{ mA}$

C_i negligible
 L_i negligible

(16) Test report **PTB Ex 06-26109**

(17) Special conditions for safe use

According to the requirements of type of protection EEx nA II the input circuits are permitted to be connected, disconnected or operated while live only during installation, maintenance and repair work.

According to the requirements of type of protection EEx nL IIC the input circuits are permitted to be connected while in operation.

If the Model 3967-8 ... Solenoid Valve is intended in to be used in hazardous areas containing conductive dusts according to EN 50281-1-1:1998 it shall be installed in an enclosure providing at least degree of protection IP 54 in compliance with the IEC publication 60529:1989. The cabling shall be connected in such a manner that the connecting wiring is free from tensile and tensional stress.

(18) Essential health and safety requirements

Satisfied by compliance with the standards specified above.

Zertifizierungsstelle Explosionsschutz

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