



T R A N S L A T I O N

Statement of Conformity



- (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 02 ATEX 2012 X

- (4) Equipment: Model 4746-8 . . . Limit Switch
- (5) Manufacturer: SAMSON AG Mess- und Regeltechnik
- (6) Address: Weismüllerstr. 3, 60314 Frankfurt am Main, Germany
- (7) The equipment and any acceptable variation thereof are specified in the schedule to this certificate and the documents referred to therein.
- (8) The Physikalisch-Technische Bundesanstalt, notified body number 0102 according to Article 9 of the Council Directive 94/9/ of 23 March 1994, certifies that 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 specified in Annex II to the Directive.

The examination and test results are recorded in confidential report: **PTB Ex 02-21299**

- (9) The essential health and safety requirements are satisfied by compliance with
- EN 50021: 1999**
- (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) In compliance with the Directive 94/9/EC this Statement of Conformity relates only to the design and construction of the equipment specified. Further requirements of this Directive apply to manufacture and marketing of this equipment.
- (12) The marking of the equipment shall include the following:

 **II 3 G EEx nA II T6**

Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, 05.April 2002

(Signature) (Seal)
Dr. Ing. U. Klausmeyer
Regierungsdirektor

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This Statement of conformity may be reproduced only in its entirety and without any changes, schedule.
Extracts or changes shall require the prior approval of the Physikalisch-Technische Bundesanstalt.

(13)

S c h e d u l e

(14)

Statement of Conformity PTB 02 ATEX 2012 X

(15) **Description of Equipment**

The Model 4746-8 . . . Limit Switch servers for converting mechanical manipulated variables into electrical signals. It is intended for attachment to pneumatic, electrical or hydraulic actuators.

The device is intended for use inside and outside of Category 3 hazardous locations.

The correlation between temperature classification and permissible ambient temperature ranges is shown in the table below:

Temperature class	Ambient temperature range
T5	-45°C . . .+70°C
T6	-45°C . . .+60°C
T4	-45°C . . .+80°C

Electrical data

Versions:

- | | |
|--|------------------------------|
| With inductive proximity switch
Contact circuit
(terminals 41/42, 51/52) | Type of protection EEx nA II |
| a.) With electrical proximity switch
Contact circuit
(terminals 41/42/43, 44/45/46,
51/52/53) | Type of protection EEx nA II |

(16) **Test report PTB Ex 02-21299**

(17) **Special conditions for safe use**

The Modell 4746-8 . . .Limit Switch shall be installed in an enclosure providing at least Degree of Protection IP 54 in compliance with IEC Publication 60529:1989.

The wiring shall be connected in such a manner that the connection facility is not subjected to pull and twisting.

Schedule to the Statement of Conformity PTB 02 ATEX 2012 X

(18) **Basic health and safety requirements**

Are satisfied by compliance with the standard specified..

Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, 05.April 2002

(Signature)

(seal)

Dr. Ing. U. Klausmeyer
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T R A N S L A T I O N
A D D E N D U M No.: 1

in compliance with Directive 94/9/EC Annex III Clause 6
to the EC Type Examination Certificate PTB 98 ATEX 2114

Equipment: Model 4746-12.. and 4746-13.. Limit Switches

Marking:



II 2 G EEx ia IIC T6

Manufacturer: SAMSON AG

Address: Weismüllerstr. 3, D-60314 Frankfurt, Germany

Description of the additions and modifications

The model description code has been changed. The old and the new designation code numbers are shown in the table below:

Old	New
4746-2...	4746-12...
4746-3...	4746-13...

In future, also the Model SJ-3.5 Slot-type Proximity Switches manufactured by Pepperl & Fuchs approved under the Ex Type Examination Certificate PTB 99 ATEX 2219 X may be used.

The preceding models of the same name approved under the Certificate of Conformity PTB No. Ex-95.D-2195 X are permitted to be used until 20 June 2002.

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Physikalisch-Technische Bundesanstalt., Bundesallee 100, D-38116 Braunschweig

Addendum No. 1 to the Ex Type Examination Certificate PTB 98 ATEX 2114

Electrical data

Models 4746-12..1/..2 with inductive proximity switch

Inductive proximity switch
 (terminals 41/42 and 51/52)

Type of Protection: Intrinsic Safety EEx ia IIC
 only for connection to a certified intrinsically safe circuit

Maximum values

$U_i = 16 \text{ V}$
 $I_i = 52 \text{ mA}$
 $P_i = 169 \text{ mW}$
 or
 $U_i = 16 \text{ V}$
 $I_i = 25 \text{ mA}$
 $P_i = 64 \text{ mW}$

 $C_i = 50 \text{ nF}$
 $L_i = 250 \text{ } \mu\text{H}$

The correlation between temperature classification, permissible ambient temperature ranges, maximum short-circuit currents and power for evaluating instruments is shown in the table below:

Temperature class	Permissible ambient temperature range	I_0 / P_0
T6	-45 °C ... 45 °C	52 mA/169 mW
T5	-45 °C ... 60 °C	
T4	-45 °C ... 80 °C	
T6	-45 °C ... 60 °C	25 mA/64 mW
T5	-45 °C ... 80 °C	
T4	-45 °C ... 100 °C	

All the other electrical data and other data apply also to this Addendum No. 1.

Test report: **PTB EX 03-23049**

Zertifizierungsstelle Explosionsschutz

Braunschweig, 7 March 2003

By order

(Signature) (Seal)
 Dr. Ing. U. Johannsmeyer
 Regierungsdirektor

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