



## Translation

### (1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - **Directive 94/9/EC**



(3) EC-Type Examination Certificate Number

**TÜV 03 ATEX 2021 X**

(4) Equipment: Snap Action Switch type EEx SU1...

(5) Manufacturer: Bernstein AG

(6) Address: Tieloser Weg 6  
D-32457 Porta Westfalica

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH & Co. KG, TÜV CERT-Certification Body, notified body number N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system 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 given in Annex II to the Directive.

The examination and test results are recorded in the confidential report N° 03YEX550140.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014:1997**

**EN 50018:2000**

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

(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

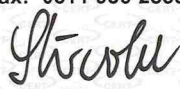
 **II 2 G EEx d IIC T6**

TÜV NORD CERT GmbH & Co. KG  
TÜV CERT-Certification Body  
Am TÜV 1  
D-30519 Hannover  
Tel.: 0511 986-1470  
Fax: 0511 986-2555

Hanover, 2003-01-31



**TÜV NORD CERT**

  
Head of the  
Certification Body

(13)

## SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 03 ATEX 2021X**

(15) Description of equipment

The Snap Action Switch type EEx SU1... in the execution of a changeover double gap contact element (1 break and 1 make contact separated) is used as a machine-operated control switch. The type EEx SU1Z... is a break contact element with positive opening operation for a use as a safety switch.

The Snap Action Switch is mounted in an enclosure made of plastic (max. dimension of the surface of one side < 15 cm<sup>2</sup>), the electrical connection is provided by means of an encapsulated connecting cable. The operating elements of the switch are designed in such a way, that the dimensions of the joint according to the requirements of EN 50018, Table 2 are met.

### Electrical data

Switching capacity		
Voltage max.	250 V	240 V
Current max.	0,27 A	3,0 A
Related to utilization category	DC-13	AC-15
<i>Provided the making and breaking capacity complies with the relevant conditions other values are accepted and will be defined by the manufacturer on the basis of the operating mode, utilization category ect..</i>		
Rated operating voltage	230V AC	
Type of contacts	changeover double gap contact element (1 break and 1 make contact separated)	
Temperature class at conventional thermal current and max. permissible ambient temperature	T6 10A +70°C	
The Snap Action Switch is designed for a temperature resistance of 100°C.		
Nominal conductor cross section max.	2 to 4 x 0,75mm <sup>2</sup>	

(16) Test documents are listed in the test report No.: 03 YEX 550140.

(17) Special conditions for safe use

The mechanical test according to EN 50014, section 23.4.7.7., and the test of resistance to impact according to section 23.4.3.1. have not be carry out at the Snap Action Switch type EEx SU1.... For installation in hazardous areas an equal protection has to be provided.

The connecting cable of the switch must be installed fixed and mechanical protected. In case of connecting in the hazardous area an enclosure must be used which meets a recognized type of protection according to EN50014, section 1.2. and which has to comply with section 14.

(18) Essential Health and Safety Requirements

no additional ones



Translation  
**1. SUPPLEMENT**  
to  
**EC-Type-Examination Certificate No. TÜV 03 ATEX 2021 X**

Equipment: Snap Action Switch type EEx SU1...  
Manufacturer: Bernstein AG  
Address: Tieloser Weg 6  
32457 Porta Westfalica  
Germany

Amendments:

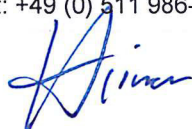
In the future, the Snap Action Switch may also be manufactured according to the test documents listed in the test report. These documents consider changes in the in the manufacturing procedure. No technical or constrictive changes were made for the Snap Action Switches.

The electrical data and all other data apply unchanged for this supplement.

The test documents are listed in the test report No. 04 YEX 551864.

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Fax: +49 (0) 511 986-1590

Hannover, 05.07.2016

A handwritten signature in blue ink, appearing to read "Heinen".

Deputy head of the notified body  
Heinen

(original certificate: TÜV NORD CERT GmbH & Co KG, TÜV CERT, Am TÜV 1, 30519 Hannover, date 16.12.2004)

**Translation**

**2. SUPPLEMENT**

**to Certificate No.**

**TÜV 03 ATEX 2021 X**

**Equipment:**

Snap Action Switch type EEx SU1...

**Manufacturer:**

Bernstein AG

**Address:**

Tieloser Weg 6  
32457 Porta Westfalica  
Germany

**Order number:**

8000554100

**Date of issue:**

2008-12-15

**Amendments:**

In the future, the Snap Action Switch may also be manufactured according to the test documents listed in the test report. These documents consider changes in the internal structure and about the using of alternative types of cable. The certified types of the Snap Action Switch and the safety concept are unchanged.

In the future, the maximal permissible ambient temperature is 65°C.

In the future, the maximum value of the conventional thermal current is 5A.

All other data of the EC-Type Examination Certificate including the 1.Supplement apply unchanged for this supplement.

This supplement meets the requirements of these standards:

EN 60079-0:2006

EN 60079-1:2004

(16) The test documents are listed in the test report No. 08 203 554100.

(17) Special conditions for safe use

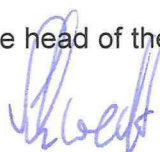
no additional ones

(18) Essential Health and Safety Requirements

no additional ones

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the certification body



Schwedt

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Translation

### 3. SUPPLEMENT


to Certificate No.	<b>TÜV 03 ATEX 2021 X</b>
Equipment:	Snap Action Switch type EEx SU1...
Manufacturer:	<b>Bernstein AG</b>
Address:	Tieloser Weg 6 32457 Porta Westfalica Germany
Order number:	8000555205
Date of issue:	2010-11-10

Amendments:

In the future the max. permissible ambient temperature is 60 °C.

All other data of the EC-Type Examination Certificate TÜV 03 ATEX 2021 X incl. the supplements apply unchanged.

In the future the above mentioned equipment has to be marked as follows:

 **II 2 G Ex d IIC T6**

The equipment incl. this supplement meets the requirements of these standards:

**EN 60079-0:2006**

**EN 60079-1:2007**

(16) The test documents are listed in the test report No. 10 203 555205.

(17) Special conditions for safe use

In the future the special conditions change to:

The mechanical test according EN 60079-0, section 26.4.1.2 and the test of resistance to impact to section 26.4.2 have not to be carried out at the Snap Action Switch type EEx SU1... . For installation in hazardous areas an equivalent protection has to be provided.

The connection cable of the switch must be installed fixed and mechanical protected. In case of connection in hazardous area an enclosure must be used which meets a recognized type of protection according EN 60079-0, section 1 and the requirements of section 14.

The switch has to be installed protected from light.

The security level of the joint is higher than the in the standard EN 60079-1 required security level.

3. Supplement to Certificate No. TÜV 03 ATEX 2021 X

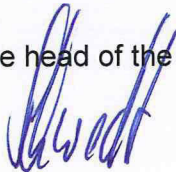
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(18) Essential Health and Safety Requirements

no additional ones

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The head of the certification body

A handwritten signature in blue ink, appearing to read "Schwedt", written over the text "The head of the certification body".

Schwedt

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## Translation

### 4. SUPPLEMENT

**to Certificate No.**

Equipment:

**TÜV 03 ATEX 2021 X**

Snap action switch type EEx SU1...

Manufacturer:

Address:

Bernstein AG

Tieloser Weg 6

32457 Porta Westfalica

Germany

Order number:

8000423451


Date of issue:

2015-02-16

Amendments:

The snap action switch type EEx SU1... may be used in the future in dust explosion hazardous areas.

The marking changes as follows:

 **II 2 G Ex d IIC T6 Gb**  
**II 2 D Ex tb IIIC T80 °C Db**

All other data apply unchanged for this supplement.

The equipment incl. of this supplement meets the requirements of these standards:

**EN 60079-0:2012****EN 60079-1:2007****EN 60079-31:2014**

(16) The test documents are listed in the test report No. 15 203 125566 .

(17) Special conditions for safe use

no additional ones

(18) Essential Health and Safety Requirements

no additional ones

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

  
Meyer

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Translation

**5. SUPPLEMENT**

to Certificate No.

**TÜV 03 ATEX 2021 X**

Equipment:

Snap action switch type EEx SU1...

Manufacturer:

Bernstein AG

Address:

Hans-Bernstein-Straße 1  
32457 Porta Westfalica  
Germany

Order number:

8000454487

Date of issue:

2016-03-17

Amendments:

The address of the manufacturer has changed.

In the future the cable type 4x0,75Rolle PVC-SW o. Talk with the order number 3251204425 may be used as connection cable.

The marking changes as follows:



**II 2 G Ex db IIC T6 Gb**

**II 2 D Ex tb IIIC T80 °C Db**

All other data apply unchanged for this supplement.

The equipment incl. of this supplement meets the requirements of these standards:

**EN 60079-0:2012**

**EN 60079-1:2014**

**EN 60079-31:2014**

(16) The test documents are listed in the test report No. 15 203 171635.

(17) Special conditions for safe use

The special condition relating to the safety level of the flameproof joints is replaced by the following special condition:

- A repair at the flameproof joints may only be performed by the manufacturer.

(18) Essential Health and Safety Requirements

no additional ones

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The head of the notified body



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