



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 98 ATEX 1293

(4) Equipment: Inductive NAMUR-Sensors type KI.-...EA/...-

(5) Manufacturer: Hans Bernstein GmbH & Co.
Unternehmensbereich Sensortechnik

(6) Address: Röcker Straße 16
D-31675 Bückeburg

(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° 98/PX02180.

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

EN 50 014: 1997

EN 50 020: 1994

(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 ib 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



TÜV NORD CERT

Hanover, 2002-10-14

TÜV NORD CERT GmbH & Co. KG
legal successor of the notified body of
TÜV Hannover/Sachsen-Anhalt e.V.
German original certificate
issued on 1998-03-25


Head of the
Certification Body
TÜV CERT A4 05.03 5.000 L6



(13)

SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 98 ATEX 1293**

(15) Description of equipment

The inductive NAMUR-Sensor type KI-...EA/...-. is used for a non-contacting position measuring resp. a non-contacting distance-measuring in hazardous areas.

The maximum permissible ambient temperature is 60°C.

Electrical data

Signal- and supply circuit
(connection cable)

in type of protection "Intrinsic Safety" EEx ib IIC
only for the connection to certified intrinsically safe circuits
maximum values:

$$U_i = 30 \text{ V}$$

$$I_i = 100 \text{ mA}$$

$$P_i = 225 \text{ mW}$$

$$R_i \geq 1 \text{ k}\Omega$$

effective internal capacitance $C_i \leq 55 \text{ nF}$

effective internal inductance $L_i \leq 0,2 \text{ mH}$

(16) Test documents consist of 73 pages including drawings and part lists are listed in the test report.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones



Translation

1. SUPPLEMENT

to

EC-Type Examination Certificate No. TÜV 98 ATEX 1293

In the future, the manufacturer of the inductive NAMUR-Sensor type KI-...EA/...- is

the company: Bernstein AG
Tieloser Weg 6

D-32457 Porta Westfalica

formerly: Hans Bernstein GmbH & Co.
Unternehmensbereich Sensortechnik
Röcker Strasse 16

D-31675 Bückeberg

No modifications of the device were carried out.

All other details of the EC-Type Examination Certificate remain unchanged for this 1. supplement.

The test documents are listed in the test report no. 03 YEX 550147.

TÜV NORD CERT GmbH & Co. KG

Hanover, 2003-03-06

TÜV CERT-Certification Body
Am TÜV 1
D-30519 Hannover
Tel.: 0511 986-1470
Fax: 0511 986-2555

A handwritten signature in black ink, appearing to read 'J. K. W. W. L.', written in a cursive style.

Head of the
Certification Body



Translation
2. SUPPLEMENT
to
EC-Type Examination Certificate No. TÜV 98 ATEX 1293

of the company: Bernstein AG
Tieloser Weg 6

D-32457 Porta Westfalica

In the future, the inductive NAMUR-Sensor type KI-...EA/...-. may also be manufactured in the variation type KIN-D06EA/002-...V according to the test documents listed in the test report. The modifications refer to the inner structure of the sensor, to the overall dimensions and to the type of the connecting cable.

All other details of the EC-Type Examination Certificate including the 1. supplement remain unchanged for this 2. supplement.

The test documents are listed in the test report no. 03 YEX 550860.

TÜV NORD CERT GmbH & Co. KG

Hanover, 2003-12-01

TÜV CERT-Certification Body
Am TÜV 1
D-30519 Hannover
Tel.: 0511 986-1470
Fax: 0511 986-2555

A handwritten signature in black ink, appearing to read 'Strobel'.

Head of the
Certification Body

Translation

3. SUPPLEMENT

to Certificate No. **TÜV 98 ATEX 1293**
Equipment: Namur-Sensor
type KI.-...EA/...-.

Manufacturer: Bernstein AG

Address: Tieloser Weg 6
32457 Porta Westfalica
Germany


Order number: 8000437105

Date of issue: 2015-04-21

Amendments:

Update to actual standards.

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

The new marking of the equipment:  II 2 G Ex ib IIC T6 Gb

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

EN 60079-0:2012

EN 60079-11:2012

(16) The test documents are listed in the test report No. 15 203 145291.

(17) Special conditions for safe use

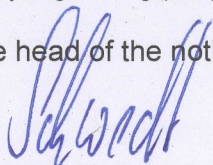
no additional ones

(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



Schwedt

Hanover office, Am TÜV 1, 30519 Hannover, Tel.: +49 (0) 511 986-1455, Fax: +49 (0) 511 986-1590