



Translation

(1) **EC TYPE-EXAMINATION CERTIFICATE**

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



(3) EC-Type Examination Certificate Number

TÜV 03 ATEX 2033

(4) Equipment: overfill prevention sensor type FAFNIR 83 UV / 84 UVT

(5) Manufacturer: FAFNIR GmbH

(6) Address: Bahrenfelder Strasse 19
D-22765 Hamburg

(7) This equipment or protective system and any acceptable variation thereto is 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° 550267/2.

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

EN 50 014:1997

EN 50 020:1994

EN 50 284:1999

(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 1 G EEx ia IIB T3

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, 2003-02-18



TÜV NORD CERT

Head of the
Certification Body



(13)

SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 03 ATEX 2033**

(15) Description of equipment

The overfill prevention sensor type FAFNIR 83 UV respective 84 UVT is made up of a detector with a PTC resistor, a probe tube, a screw-in unit, and a connection plug. The overfill prevention sensor can be installed in zone 0.

The admissible ambient temperature range is -25 °C to $+60\text{ °C}$.

Electrical Data

Supply and signal circuit in type of protection "Intrinsic Safety" EEx ia IIB

for connection to certified intrinsically safe electric circuits with the following maximum values:

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

$$I_i = 200 \text{ mA}$$

$$P_i = 1,5 \text{ W}$$

The capacitance and inductance effective to the inside are negligibly low.

(16) Test documents are listed in the test report No.: 550267/2.

(17) Special conditions fore safe use

none

(18) Essential Health and Safety Requirements

no additional ones



Translation

1. SUPPLEMENT
to
EG-Type Examination Certificate No. TÜV 03 ATEX 2033

of the company: FAFNIR GmbH
Bahrenfelder Straße 19
D-22765 Hamburg

The overfill prevention sensor type FAFNIR 83 UV respective 84 UVT is upgraded by type FAFNIR 83 UV-A resp. 83 UV-C. In the future they may also be manufactured according to the test documents listed in the test report. The modifications refer to the mechanical construction of the item.

All data apply unchanged.

The overfill prevention sensor type FAFNIR 83 UV resp. 84 UVT according to the EG-Type Examination Certificate no. TÜV 03 ATEX 2033, incl. the first supplement meets also the requirements of the EN 50 014:1997+A1+A2, EN 50 020:2002 and EN 50 284/1999.

- (16) Test documents are listed in the test report no.: 04YEX550487-8.
- (17) Special conditions for safe use
none
- (18) Essential Health and Safety Requirements
no additional ones

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Tel.: 05 11 986-1470
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Hanover, 2004-02-20

Der Leiter

Translation

2. SUPPLEMENT to

EC TYPE-EXAMINATION CERTIFICATE No. TÜV 03 ATEX 2033

Test object: **overflow prevention sensor type FAFNIR 83 UV, 84 UVT, 83 UV-A, 83 UV-C, 83 UV-SV resp. 83 UV-SR**

Client: **FAFNIR GmbH**

Address: **Bahrenfelder Straße 19
D-22765 Hamburg**

Alterations:

The overflow prevention sensor type FAFNIR 83 UV, 84 UVT, 83 UV-A, 83 UV-C is upgraded by type FAFNIR 83 UV-SV resp. 83 UV-SR. In the future they may also be manufactured according to the test documents listed in the test report. The modifications refer to the mechanical construction of the item.

The electrical data and all further information also applies in unaltered form to this supplement.

The test object, including this 2. supplement, also fulfils the requirements of the following standards:

EN 50 014:1997+A1+A2 EN 50 020:2002 EN 50 284:1999

(16) Test documents are listed in the test report N° 06 YEX 552688.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones

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Hanover, 2006-01-19



Head of the
Certification Body

Translation

3. SUPPLEMENT

to Certificate No.	TÜV 03 ATEX 2033
Equipment:	Overfill prevention sensor type 83 UV-... and type 84 UVT
Manufacturer:	FAFNIR GmbH
Address:	Bahrenfelder Straße 19 22765 Hamburg Germany
Order number:	8000392406
Date of issue:	2011-02-10

Amendments:


In the future, the overfill prevention sensor type 83 UV-... and type 84 UVT may also be manufactured according to the test documents listed in the test report.

The type designation was changed.

Furthermore the equipment was evaluated according to the newest standards.

All other data apply unchanged for this supplement.

The device will then be labeled as follows:

 **II 1 G Ex ia IIB T3 Ga**

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

EN 60079-0:2009

EN 60079-11:2007

EN 60079-26:2007

(16) Test documents are listed in the test report No. 11 203 077987.

(17) Special conditions for safe use

none

3. Supplement to Certificate No. TÜV 03 ATEX 2033

(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

A handwritten signature in blue ink, appearing to read "Schwedt". The signature is stylized and somewhat cursive.

Schwedt

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