



## (1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

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

(3) EC-type-examination Certificate Number:

**PTB 98 ATEX 3109**



(4) Equipment: Cable and conduit entry type U 2. UNI Dicht EEx e II, made of brass and nickel-plated

(5) Manufacturer: Pflitsch GmbH & Co. KG

(6) Address: D-42492 Hückeswagen  
Mühlenweg 30

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC 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, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 97-37003.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
DIN EN 50 014:1994-03      DIN EN 50 019:1996-03

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

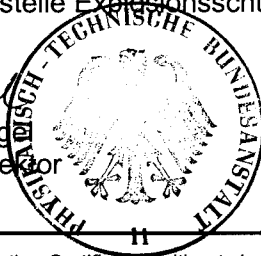
(12) The marking of the equipment shall include the following:

II 2 G EEx e II

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 17.04.1998

Dr.-Ing. U. Engel  
Regierungsdirektor



Sheet 1/2

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

## SCHEDULE

(14)

**EC-TYPE-EXAMINATION CERTIFICATE No. PTB 98 ATEX 3109**

(15) Description of the device

The type U 2.UNI EEx-e cable and conduit entry made of brass and nickel-plated, serves to introduce cables into electrical apparatus of the type of protection increased safety "e". The cable and conduit entry consists of the pressure screw with or without clamping, sealing component of different elastomers, double nipple with short or long thread and an O-ring for the lower part of the thread.

When the clamping screw is used without clamping, only fixed cables may be introduced. The user must guarantee appropriate clamping.

When the tested sealing components are selected, the maximum thermal load of the cables introduced must be taken into account.

### Technical data

Intended for temperature range:  
(depending on the construction of  
the sealing component)

Silopren (LSR):	-60 °C bis +180 °C
Santopren (TPE):	-40 °C bis +115 °C
PVC:	-20 °C bis +70 °C

Installation in instruments with wall thicknesses: at least 1,5 mm

(16) Report PTB Ex 97-37003 (consisting of 6 pages, description and 9 drawings)

(17) Special conditions for safe use

not applicable

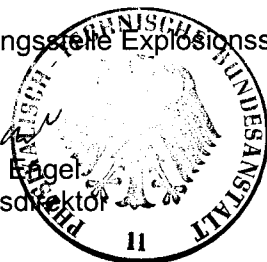
(18) Basic health and safety requirements

The degree of protection - at least IP 54 according to EN 60529:1991 - will be guaranteed only by adequate selection of the cable and conduit entries, of the sealings tested and by proper installation of the cable and conduit entries into the electrical apparatus.

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 17.04.1998

Dr.-Ing. U. Engel  
Regierungssekretär



## 2nd SUPPLEMENT

according to Directive 94/9/EC Annex III.6

### to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 3109

(Translation)

Equipment: Cable entry, type U2. UNI Dicht EEx e II, brass nickel-plated

Marking: II 2 G EEx e II

Manufacturer: Pflitsch GmbH & Co. KG

Address: Mühlenweg 30  
D-42492 Hückeswagen, Germany

#### Description of supplements and modifications

For the cable entry, type U2. UNI Dicht EEx e II, brass nickel-plated, double nipples of the reduced and expanded type, special-size multiple sealings, "closed" sealings, and flat sealings of angular ("e"), radiused ("g"), and oval shape ("v"), as well as a connecting-thread sealing ring made from PE may optionally be used.

The type designation is changed to read **U 2. UNI Dicht E Ex e screwed metal cable gland.**

#### Technical data

Material	Operating temperature range
PVC	- 20 °C to + 85 °C
LSR (silicone)	- 60 °C to + 180 °C
TPE-V	- 40 °C to + 115 °C
PE	- 40 °C to + 80 °C

#### Notes for installation and use

The type of protection – IP 54 according to EN 60529:1991 as a minimum – is safeguarded only when due consideration is given to the manufacturer's specifications and when the sealings are properly fitted into the explosion-proof cable entry.

Test report: PTB Ex 02-12117

Zertifizierungsstelle Explosionschutz

By order

Dr.-Ing. U. Klausmeyer  
Regierungsdirektor



Braunschweig, June 05, 2002

Sheet 1/1

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## 3rd SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 3109 X

(Translation)

Equipment: Cable entry, type U 2. UNI Dicht Kabelverschraubung made from nickelized brass

Marking:  II 2 G EEx e II

Manufacturer: Pflitsch GmbH & Co. KG

Address: Mühlenweg 30, 42499 Hückeswagen, Germany

### Description of supplements and modifications

The cable entry of type Typ U 2. UNI Dicht Kabelverschraubung in nickelized brass may also be used in areas in which explosive atmospheres with dust/air mixtures have to be expected to occur.

The marking is therefore changed to read:

 II 2 G/D EEx e II IP 68

### Technical data

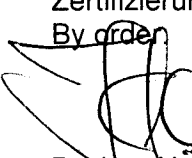
Protection against contact, foreign matter and water: IP68 according to EN 60529

Test report: PTB Ex 03-13208

Zertifizierungsstelle Explosionsschutz

Braunschweig, September 08, 2003

By order

  
Dr.-Ing. U. Klaus Meyer  
Regierungsdirektor

