

(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 2200**

(4) Equipment: Ex-Luminaire USL05-Ex

(5) Manufacturer: F.H. Papenmeier GmbH & Co. KG

(6) Address: Talweg 2, 58239 Schwerte, Deutschland (Germany)

(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 98-28518**.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014:1997 EN 50018:1994**

(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 d IIC T3/T4/T6**

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 07. January 1999

Dr.-Ing. U. Johannsmeyer  
Regierungsdirektor

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

## SCHEDULE

(13)

(14)

### EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 2200

(15) Description of equipment

The body of the luminaire USL05-Ex comprises an Aluminium casting and a transparent part made of Sodalime glass or Borosilicate glass.

The luminaire may, whilst observing the temperature class and lamp fitted, be used at up to a maximum ambient temperature of 60° C.

#### Technical data

Electric supply.....Alternating and direct current (without transformer)

Nominal voltage of the luminaire.....230 V/115 V/24 V (direct)/12 V (direct)

Lamp fitted (see identity label).....12 V/5 W Ordering part No. 64405 (Osram)  
12 V/20 W Ordering part No. 41900 SP (Osram)  
24 V/20 W Ordering part No. 41930 SP (Osram)

alternatively

12 V/5 W Ordering part No. 13283 (Philips)

(16) Test report **PTB Ex 98-28518**

(comprising description 4 pages, type survey 1 page,  
drawing 28 pages, part lists 18 pages, test records 7 pages)

(17) Special conditions for safe use

none;

(18) Essential health and safety requirements

covered under above standards

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 07. January 1999

Dr.-Ing. U. Johannsmeyer  
Regierungsdirektor

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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.

Physikalisch-Technische Bundesanstalt • Bundesallee 100 • D-38116 Braunschweig

**Please note:** Whilst the translation from the german original is considered correct, in the event of any arbitration arising out of a dispute only the german wording shall be valid and binding.

## 1. Supplement

in accordance with guideline 94/9 EG Appendix III Fig.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 2200

Equipment: Ex-Luminaire USL05-Ex

Identification Code:  II 2 G Ex d IIC T3, T4 and T6 as well as 120° C

Manufacturer: FH. Papenmeier GmbH & Co. KG

Address: Talweg 2, 58239 Schwerte, Deutschland (Germany)

### Description of supplements and modifications

Luminaire USL05-Ex of the following design can also be fitted with a sand blasted reflector in accordance with attached test documents. This will ensure a maximum surface temperature of 120° C.

### Technical data

Permissible ambient temperature range: -20° C to 40° C

Max surface temperature: 120° C

Electric supply: DC or AC

Rated voltage: 24 V

Illuminating means: 24 V/20 W Ordering code No. 64435 U

Test report: PTB Ex 00-10151

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 11. August 2000

Dr.-Ing. U. Klausmeyer  
Regierungsdirektor

## 2. Supplement

in accordance with guideline 94/9 EG Appendix III Fig.6

**to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 2200**

Equipment: Ex-Luminaire USL05-Ex

Identification Code:  II 2 G Ex d IIC T3, T4 and T6 as well as 120° C

Manufacturer: F.H. Papenmeier GmbH & Co. KG

Address: Talweg 2, 58239 Schwerte, Deutschland (Germany)

### Description of supplements and modifications

Luminaire USL05-Ex can also be fitted for operation as flashing light with a flash light cap and with a sand blasted reflector in accordance with attached test documents.

### Technical data

Permissible ambient temperature range: -20° C to 40° C

Max surface temperature: 120° C

Electric supply: DC or AC

Rated voltage: 24 V

Frequency of flashing signals:  $\leq 1$  Hz

Illuminating means: 24 V/20 W Ordering code No. 64435 U

Test report: PTB Ex 00-10210

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 14. Dezember 2000

Dr.-Ing. U. Klausmeyer  
Regierungsdirektor

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