

## Translation

# (1) 1. Supplement to the EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use  
in potentially explosive atmospheres - Directive 94/9/EC  
Supplement accordant with Annex III number 6
- (3) No. of EC-Type Examination Certificate: **BVS 08 ATEX E 136**
- (4) Equipment: **Ex-Luminaire type USL07-Ex**
- (5) Manufacturer: **F.H. Papenmeier GmbH & Co. KG**
- (6) Address: **Talweg 2, 58239 Schwerte, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this supplement.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council 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 test and assessment report BVS PP 09.2042 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2009 General requirements**  
**EN 60079-1:2007 Flameproof enclosure „d“**  
**EN 60079-7:2007 Increased safety „e“**  
**EN 60079-31:2009 Protection by enclosures „t“**
- (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 appendix to this certificate.
- (11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to 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 shall include the following:



**II 2G Ex de IIC T\* Gb**

'e' for enclosures with terminal box

**II 2D Ex tb IIIC T\* °C Db**

The values for \* are specified in the type chart, paragraph 15.3 Parameters

DEKRA EXAM GmbH  
Bochum, dated 22<sup>nd</sup> February 2013

Signed: Simanski

Certification body

Signed: Dr. Eickhoff

Special services unit

(13) Appendix to

(14) **1. Supplement to the EC-Type Examination Certificate  
BVS 08 ATEX E 136**

(15) 15.1 Subject and type

Ex-Luminaire type USL07-Ex

15.2 Description

This explosion-protected luminaire comprises an enclosure body with a screw-type cover and is intended for use in environments that are potentially hazardous due to gas or combustible dust. The translucent part of the luminaire is set into the screw-type cover. As further options, the luminaire can be fitted with a terminal box (TB) and with an electronic timer card (PCB). The timer card automatically switches the luminaire off after a preset time by means of a reed contact.

This supplement is issued to ensure the compliance of the equipment with the updated versions of the applicable standards and the change of the PTC types in the transformer.

The transformer type EI 60 / 20 VA (Trafo-BV: 1.8711.018.97) can now be equipped with the PTC resistor type B59840C0130A070 or B59850C0130A070 instead of the PTC resistor type B59841-C135-A70 or B59851-C135-A70.

15.3 Parameters

Temperature classification Type USL07-Ex

Type USL07-Ex	Nominal voltage	Ambient temperature range			
		-20 °C ≤ Ta ≤ +40 °C		-20 °C ≤ Ta ≤ +60 °C	
		Without TB	With TB	Without TB	With TB
230V / 12V / 20W	230V AC	T6 / T 80 °C	T6 / T 80 °C	----	----
24V / 20W	24V AC/DC	T6 / T 80 °C	T6 / T 80 °C	----	----
230V / 12V / 35W	230V AC	T4 / T130 °C	T4 / T130 °C	----	----
240V / 12V / 35W	240V AC	T4 / T130 °C	T4 / T130 °C	----	----
12V / 50W	12V AC/DC	T4 / T130 °C	T4 / T130 °C	T3 / T195 °C	----
24V / 50W	24V AC/DC	T4 / T130 °C	T4 / T130 °C	T3 / T195 °C	----
24V / 50W FL	24V AC/DC	----	120 °C / T120 °C	----	----
120V / 12V / 50W	120V AC	T3 / T195 °C	T3 / T195 °C	----	----
230V / 50W	230V AC/DC	T4 / T130 °C	T4 / T130 °C	T3 / T195 °C	----
230V / 12V / 50W	230V AC	T4 / T130 °C	T4 / T130 °C	----	----
240V / 12V / 50W	240V AC	T3 / T195 °C	T3 / T195 °C	----	----
230V / 75W	230V AC/DC	T3 / T195 °C	T3 / T195 °C	----	----

TB= terminal box

(16) Test and assessment report

BVS PP 09.2042 EG as of 22<sup>nd</sup> February 2013

(17) Special conditions for safe use

None

We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH  
44809 Bochum, 22<sup>nd</sup> February 2013  
BVS-Ew/Ma A 20120999

*[Signature]*

Certification body

*[Signature]*

Special services unit

# DEKRA

Ex

Translation

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

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

(3) **BVS 08 ATEX E 136**

(4) Equipment: **Ex-Luminaire Type USL 07-Ex**

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

(6) Address: **D-58239 Schwerte**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body No. 0158 according to 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 set out in Annex II to the Directive.

The examination and test results are recorded in confidential test and assessment report No. BVS PP 09.2042 EC.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2006 General Requirements  
EN 60079-1:2007 Flameproof Enclosure  
EN 60079-7:2007 Increased Safety  
EN 61241-0:2006 General Requirements  
EN 61241-1:2004 Protection by Enclosures

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.

This EC Type-Examination Certificate relates only to the compliance of the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of the Directive apply to the manufacture and placing on the market of this equipment, and are not covered by this Certificate.

The marking of the equipment shall include the following:

**Ex II 2G Ex de IIC \*** 'e' for enclosures with terminal box  
**II 2D Ex tD A21 IP67 T\*\*\*°C**

The values for "\*\*\*" are specified in the type chart, paragraph 15.3 Parameters

**DEKRA EXAM GmbH**  
Bochum, dated 31 March 2009

(Signature)  
Head of Certification Body

(Signature)

# DEKRA

Schedule to

(14)

## EC TYPE-EXAMINATION CERTIFICATE

**BVS 08 ATEX E 136**

### 15.1 Item and Type

Explosion-protected Luminaire, Type USL 07-Ex

### 15.2 Description

This explosion-protected luminaire comprises an enclosure body with a screw-type cover and is intended for use in environments that are potentially hazardous due to gas or combustible dust. The translucent part of the luminaire is set into the screw-type cover. As further options, the luminaire can be fitted with a terminal box (TB) and with an electronic timer card (PCB). The timer card automatically switches the luminaire off after a preset time by means of a reed contact.

This EC type-examination certificate is based on Certificate PTB 01 ATEX 1031 including schedule for Category 2G, and Certificate DMT 01 ATEX E 144 including schedule for Category 2D.

### 15.3 Electrical, Mechanical and Thermal Parameters:

Temperature classification Type USL 07-Ex

Type USL 07-Ex	Nominal Voltage	Ambient Temperature Range			
		$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$		$-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	
		Without TB	With TB	Without TB	With TB
230V/12V / 20W	230V AC	T6 / T 80°C	T6 / T 80°C		
24V / 20W	24V AC/DC	T6 / T 80°C	T6 / T 80°C		
230V/12V / 35W	230V AC	T4 / T130°C	T4 / T130°C		
240V/12V / 35W	240V AC	T4 / T130°C	T4 / T130°C		
12V / 50W	12V AC/DC	T4 / T130°C	T4 / T130°C	T3 / T195°C	
24V / 50W	24V AC/DC	T4 / T130°C	T4 / T130°C	T3 / T195°C	
24V / 50W FL	24V AC/DC	---	120°C/T120°C		
120V/12V / 50W	120V AC	T3 / T195°C	T3 / T195°C		
230V / 50W	230V AC/DC	T4 / T130°C	T4 / T130°C	T3 / T195°C	
230V/12V / 50W	230V AC	T4 / T130°C	T4 / T130°C		
240V/12V / 50W	240V AC	T3 / T195°C	T3 / T195°C		
230V / 75W	230V AC/DC	T3 / T195°C	T3 / T195°C		

# DEKRA

## Test report

BVS PP 09.2042 EC, issued 31/03/2009

## Special conditions for safe use

None