



Translation

EC-Type Examination Certificate

(1)

(2)

- Directive 94/9/EC -

Equipment and protective systems intended for use
in potentially explosive atmospheres

(3)

BVS 09 ATEX E 169

(4) **Equipment:** Luminaire type ESL55LED-Ex

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

(6) **Address:** 58239 Schwerte, Germany

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

(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 10.2008 EG.

(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 61241-0:2006 General requirements
EN 61241-1:2004 Protection by Enclosures

(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 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 d IIC T6

II 2D Ex tD A21 IP67 T80°C

DEKRA EXAM GmbH

Bochum, dated 6th January 2010

Signed: Simanski

Certification body

Signed: Dr. Eickhoff

Special services unit

(13)

Appendix to

(14)

EC-Type Examination Certificate

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(15)

15.1 Subject and type

Luminaire type ESL55LED-Ex

15.2 Description

The luminaire type ESL55LED-Ex consists of a stainless steel enclosure and is suitable for use in both gas and dust hazardous areas of categories 2G and 2D. The luminaire serves the purpose of monitoring objects and of remote-controlling procedural processes in reactors, apparatuses, containers etc. Inside the luminaire, the input voltage is adjusted to the operating voltage of the LED illuminants by means of a power board.

Category 2G:

The luminaire type ESL55LED-Ex is manufactured according to the type of protection Flameproof Enclosure 'd'.

Category 2D:

The luminaire type ESL55LED-Ex is manufactured according to the type of protection Protection by Enclosures 'tD'.

15.3 Parameters

15.3.1 Electrical data

15.3.1.1 24V-version

Input voltage

Power

max.

AC/DC 24 V
15 W

15.3.1.2 120V up to 230V-version

Input voltage

Power

max.

AC/DC 120 - 230V
15 W

15.3.2 Thermal data

Ambient temperature range

Temperature class

Max. surface temperature

$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$
T6
 $\leq 80^{\circ}\text{C}$

Test and assessment report

BVS PP 10.2008 EG as of 06.01.2010

Special conditions for safe use

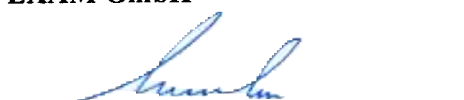
None

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.

44809 Bochum, 10.02.2010

BVS-Kr/Ld/Ar E 0131/10

DEKRA EXAM GmbH



Certification body



Special services unit