

Translation

EU-Type Examination Certificate Supplement 3

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 08 ATEX E 137**

Product: **Luminaire type ESL25-Ex; ESL25-Ex/1; ESL25LED-Ex**

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

Address: **Talweg 2, 58239 Schwerte, Germany**

This supplementary certificate extends EU-Type Examination Certificate No. BVS 08 ATEX E 137 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 No. BVS PP 98.2049 EU.

The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-31:2014

General requirements
Flameproof enclosure "d"
Protection by Enclosure "t"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:



II 2G Ex db IIC T* Gb
II 2D Ex tb IIIC T* C Db

The values for * are specified in the type table, clause 15.3 Parameters

DEKRA Testing and Certification GmbH
Bochum, 2020-05-08

Signed: Jörg-Timm Kilisch

Managing Director

13 Appendix

14 EU-Type Examination Certificate

BVS 08 ATEX E 137 Supplement 3

15 Product description

15.1 Subject and type

Luminaire type ESL25-Ex; ESL25-Ex/1; ESL25LED-Ex

15.2 Description

The Ex luminaire consists of an enclosure with the type of protection Flameproof Enclosure "db" and Protection by Enclosure "tb" with screw cap and is intended for use in areas exposed to gas / air mixtures or dust / air mixtures. The translucent part is inserted into the cover. The luminaire is equipped with halogen lamps for nominal voltages from 12 V to 230 V or LED lamps from 24 V to 230 V. Some luminaire versions are additionally equipped with a built-in transformer. The requirements for cable glands and cables are described in clause 15.3 "Parameters".

Reason for the supplement:

- Update to the current standard

15.3 Parameters

15.3.1 Temperature classification type ESL 25-Ex

Type ESL 25-Ex	Nominal voltage	Ambient temperature range		Increased temperature range needed for cable glands and wires
		$-20\text{ °C} \leq T_a \leq +40\text{ °C}$	$-20\text{ °C} \leq T_a \leq +60\text{ °C}$	
12 V / 5 W	12 V AC / DC	T6 / T80 °C	---	No
120 V / 12 V / 5 W	120 V AC	T6 / T80 °C	---	No
230 V / 12 V / 5 W	230 V AC	T6 / T80 °C	---	No
12 V / 10 W	12 V AC / DC	---	T4 / T130 °C	Yes, 110 °C
120 V / 12 V / 10 W	120 V AC	---	T4 / T130 °C	Yes, 110 °C
230 V / 12 V / 10 W	230 V AC	---	T4 / T130 °C	Yes, 110 °C
12 V / 20 W	12 V AC / DC	T4 / T130 °C	---	Yes, 110 °C
24 V / 20 W	24 V AC / DC	T4 / T130 °C	---	Yes, 110 °C

15.3.2 Temperature classification type ESL 25-Ex/1

Type ESL 25-Ex/1	Nominal voltage	Ambient temperature range		Increased temperature range needed for cable glands and wires
		$-20\text{ °C} \leq T_a \leq +40\text{ °C}$	$-20\text{ °C} \leq T_a \leq +60\text{ °C}$	
12 V / 5 W	12 V AC / DC	T6 / T80 °C	----	No
12 V / 10 W	12 V AC / DC	----	T4 / T130 °C	Yes, 110 °C
12 V / 20 W	12 V AC / DC	T4 / T130 °C	----	Yes, 110 °C
24 V / 20 W	24 V AC / DC	T4 / T130 °C	----	Yes, 110 °C

15.3.3 Temperature classification type ESL 25LED-Ex

Type ESL 25LED-Ex	Nominal voltage	Ambient temperature range	Increased temperature range needed for cable glands and wires
		-20 °C ≤ T _a ≤ +50 °C	
24 V / 7.5 W	24 V AC / DC	T6 / T80 °C	No
110-230 V / 7.5 W	110 - 230 V AC / DC	T6 / T80 °C	No

16 Report Number

BVS PP 98.2049 EU, as of 2020-05-08

17 Special Conditions for Use

None

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

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 Testing and Certification GmbH
Bochum, 2020-05-08
BVS-WIo/Mu A 20200238


Managing Director