CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 09ATEX0191X** Issue Number: **4**

(4) Product: **Surge Protector Type D*-LBF-***

(5) Manufacturer: **Pepperl+Fuchs SE**

(6) Address: **Lilienthalstrasse 200, 68307 Mannheim, Germany**

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

(8) DEKRA Certification B.V., Notified Body number 0344 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 confidential test report mentioned in item (16).

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018 + A11 : 2024 **EN 60079-11 : 2012**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) 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.

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



II 2(1) G **Ex ia [ia Ga] IIC T6…T4 Gb**

Date of certification: 3 February 2025

DEKRA Certification B.V.

R. Schuller
Certification Manager

Throughout this document, a point is used as the decimal separator.

© Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 09ATEX0191X** Issue No. **4**

(15) Description

Surge Protectors series D*-LBF-* serve as transient suppressors in the lines of electronic circuits.

This approval applies to the following equipment:
Base units Type DB-LBF-I1 and Type DB-LBF-I1.I and modules Type DP-LBF-I1.36.DE and Type DP-LBF-I1.36.IE.

The relation between the ambient temperature and temperature class is per table below.

Ambient temperature range	Temperature class
-50 °C to +50 °C	T6
-50 °C to +75 °C	T5
-50 °C to +80 °C	T4

Electrical data

Module input circuits (terminals X1, X2, X5 and X6):
in type of protection intrinsic safety Ex ia IIC, for connection to a certified intrinsically safe circuit, with the following maximum values:
U_i = 30 V; I_i = 500 mA; P_i = any; C_i = 0 nF; L_i = 0 mH;

or for connection to a certified intrinsically safe circuit or a circuit in accordance with FISCO, with the following maximum values:
U_i = 17.5 V; I_i = 380 mA; P_i = 5.32 W; C_i = 0 nF; L_i = 0 µH.

Module output circuits (terminals X3, X4, X7 and X8):
The values of U_o, I_o and P_o are determined by the parameters of the circuit(s) to which the Surge Protector series D*-LBF-* is connected.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/KEM/ExTR10.0036/03.

(17) **Specific conditions of use**

For ambient temperature range, see (15).

The dielectric strength of at least 500 V of the intrinsically safe circuits of the Surge Protector series D*-LBF-* is limited only by the overvoltage protection.
Terminals X5, X6, X7 and X8 are considered to be connected to earth.

When the Surge Protector series D*-LBF-* is used in a Fieldbus system according to FISCO, the power supply shall have infallible galvanic isolation and may not be connected to earth or shall be infallibly connected to the potential equalizing system within the hazardous area.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

Test documentation

As listed in test report mentioned in item (16).