CERTIFICATE

(1) Type Examination

(2) **Product intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) Type Examination Certificate Number: **KEMA 09ATEX0190 X** 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., 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

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 60079-7 : 2015 + A1 : 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 Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

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

II 3 G Ex ic IIC T6…T4 Gc
II 3 G Ex ec IIC T6…T4 Gc

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.

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(13) # SCHEDULE

(14) **to Type Examination Certificate KEMA 09ATEX0190X** 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):
Un = 33 V; In = 500 mA.

Module input circuits (terminals X1, X2, X5 and X6):
in type of protection intrinsic safety Ex ic IIC, for connection to an intrinsically safe circuit, with the following maximum values:
U_i = 33 V; I_i = 500 mA; P_i = any; C_i = 0 nF; L_i = 0 mH.

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).

For use in type of protection Ex ec IIC T6…T4:
The Surge Protector series D*-LBF-* shall be installed into an enclosure, which meets the requirements of IP54 in accordance with IEC 60079-0.
Connection or disconnection of energized circuits is only permitted in the absence of a potentially explosive atmosphere

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.

(13) # SCHEDULE

(14) **to Type Examination Certificate KEMA 09ATEX0190X** Issue No. **4**

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

Covered by the standards listed at item (9).

(19) **Test documentation**

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