



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX TUR 22.0081X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2023-04-19  
Applicant: **Pepperl+Fuchs SE**  
Lilienthalstrasse 200  
68307 Mannheim  
Germany  
Equipment: **Surge protector type M-LB-2.275xx.D**  
Optional accessory:  
Type of Protection: **ex ec**  
Marking: Ex ec IIC T4 Gc

Approved for issue on behalf of the IECEx  
Certification Body:

**Christian Mehrhoff**

Position:

**Assigned certifier**

Signature:  
(for printed version)

2023-05-04

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**TUV Rheinland Industrie Service GmbH**  
Am Grauen Stein  
51105 Cologne  
Germany





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Certificate No.: **IECEX TUR 22.0081X**

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Date of issue: 2023-04-19

Issue No: 0

Manufacturer: **Pepperl+Fuchs SE**  
Lilienthalstrasse 200  
68307 Mannheim  
Germany

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/TUR/ExTR22.0081/00](#)

Quality Assessment Report:

[DE/PTB/QAR06.0008/18](#)



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Certificate No.: **IECEX TUR 22.0081X**

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Date of issue: 2023-04-19

Issue No: 0

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Surge protector type M-LB-2.275xx.D

Details see [DE-IECEX\\_TUR\\_22.0081\\_X\\_00\\_Attachment](#)

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

- 1). The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- 2). The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.
- 3). The environmental data must be taken into account – see electrical data above and the operating Instructions.
- 4). Ambient temperature range  $-40\text{ °C} \leq T_a \leq +80\text{ °C}$

**Annex:**

[DE-IECEX\\_TUR\\_22.0081\\_X\\_00\\_Attachment.pdf](#)



Attachment to Certificate IECEX TUR 22.0081 X

**Device:** Surge protector  
**Type:** M-LB-2.275xx.D

**Manufacturer:** Pepperl+Fuchs SE

**Address:** Lilienthalstrasse 200  
68307 Mannheim, Germany

**General product information:**

**Type designation**

Surge protector device type M-L-2.275xx.D

M-LB-2.	275	xx	.D
1	2	3	4

1	M-LB-2= 2 pole modular
2	275 = highest permissible system voltage in V
3	TN or TT for electrical system
4	D = Detecting contact

**Description**

The Surge protector device type M-LB-2.275xx.D is used in circuits to protect the connected equipment from high-energy transient overvoltage's.

The surge protectors are intended for the following applications:

The modular 2-pole surge protection device is used for equipment protection in electrical power systems in circuits with increased safety in zone 2.

The M-LB--2.275xx.D is a modular surge protective device consisting of a base part and two plug-in protection modules.

Following parts are existent

Base part	Modules
M-LB-2.275TT.D	M-LB-1.275.M
M-LB-2.275TN.D	M-LB-1.NPE.M



Attachment to Certificate  
IECEX TUR 22.0081 X  
Revision 0

They are used in following configurations:

Equipment	Pflug-in Modules	
	M-LB-1.275.M	M-LB-1.NPE.M
M-LB-2.275TT.D	1x	1x
M-LB-2.275TN.D	2x	---

**Electrical data**

Type:	Umax
M-LB-2.275TT.D	275 V
M-LB-2.275TN.D	275 V

**Thermal data**

Ambient temperature range     $-40\text{ °C} \leq T_a \leq +80\text{ °C}$