



1 Type Examination Certificate

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU

3 Type Examination Certificate Number: **KIWA 19ATEX0002 X** Issue: **1**

4 Product: **Surge Protection Barrier Series M-LB-2******

5 Manufacturer: **Pepperl+Fuchs GmbH**

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 Kiwa Nederland 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 ATEX Assessment Report No. 181101518-1.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0 : 2018 **EN 60079-7 : 2015 + A1 : 2018**

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 of the specified product and not to specific items of equipment subsequently manufactured.

12 The marking of the product shall include the following:



II 3 G Ex ec IIC T6...T4 Gc

Kiwa Nederland B.V.
Unit Kiwa ExVision
Wilmersdorf 50
P.O. Box 137
7300 AC Apeldoorn
The Netherlands

Tel. +31 88 998 34 93
Fax +31 88 998 36 85
ExVision@kiwa.nl
www.kiwaexvision.com

Kiwa Nederland B.V.

Ronald Karel
Managing Director

Issue date:

14 June 2019

First issue:

This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

© Integral publication of this certificate in its entirety and without any change is allowed.

13 SCHEDULE

14 Type Examination Certificate KIWA 19ATEX0002 X

Issue No. 1

15.1 Description of Product

The Surge Protection Barriers series M-LB-2**** are used to protect the electrical devices from overvoltages induced in signal lines caused by indirect lightning strikes, switching operations or similar incidents. The devices are mounted on an earthed DIN mounting rail.

The Surge Protection Barriers are provided for grounded or ungrounded signal circuits and for signals with 1 V DC nominal voltage or 24 V DC nominal voltage. Depending on nominal voltage, suppressor diodes with different break down voltage are used.

Both signal lines in the Surge Protection Barrier maybe interrupted using the line disconnectors placed on the front side of the module. This feature maybe used to disconnect the field wiring e.g. for high voltage testing.

The Surge Protectors are provided whether with screw or spring terminals.

Ambient temperature range: -40 °C to +80 °C (for derating see manufacturers documentation)

15.2 Electrical Data

Module input/output circuits (screw or spring terminals 2,3 resp. 4,5 (terminal 1 is Ground)):
Un = 1 V DC or 24 V DC; In = 500 mA maximum (for derating see manufacturers documentation).

15.3 Instructions

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

16 ATEX Assessment Report Number

181101518-1.

17 Specific Conditions of Use

The Surge Protection Barriers series M-LB-2**** shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1 and shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

For this product the standard EN IEC 60079-0 : 2018 is equivalent to the harmonized standard EN 60079-0 : 2012 + A11 : 2013 in terms of safety.

19 Drawings and Documents

As listed in ATEX Assessment Report No. 181101518-1.

