

# CERTIFICATE

Issued to:  
Applicant:  
**Pepperl+Fuchs GmbH**  
**Lilienthalstraße 200**  
**68307 Mannheim, Germany**

Products : Surge protective devices  
Trade name : PEPPERL + FUCHS  
Types/models : M-LB-2.150TN.D  
M-LB-2.275TN.D  
M-LB-2.275TT.D

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61643-11:2012; IEC 61643-11:2011;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 961720

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

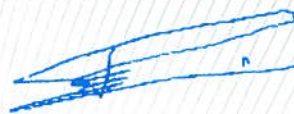
This certificate is issued on: 17 February 2015 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2179748.04

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



F.S. Strikwerda  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT**
**Product data**

Products	:	Surge protective devices
Trade name	:	PEPPERL + FUCHS
Types	:	M-LB-2.150TN.D M-LB-2.275TN.D M-LB-2.275TT.D
SPD type/class	:	2/II
Maximum continuous operating voltage ( $U_c$ )	:	See additional information
Nominal discharge current ( $I_n$ )	:	See additional information
Maximum discharge current ( $I_{max}$ )	:	See additional information
Voltage protection level ( $U_p$ )	:	See additional information
Short-circuit current rating ( $I_{scsr}$ )	:	50 kA
Maximum overcurrent protection (fuse)	:	125 A gL/gG

**Additional information**

Type	Plugin module	Mode	$U_c$ (V)	$I_n$ (kA)	$I_{max}$ (kA)	$U_p$ (kV)
M-LB-2.150TN.D	M-LB-1.150.M	L/N>PE	150	15	40	0,7
M-LB-2.275TN.D	M-LB-1.275.M	L/N>PE	275	20	40	1,5
M-LB-2.275TT.D	M-LB-1.275.M	L>N	275	20	40	1,5
	M-LB-1.NPE	N>PE	255	20	40	1,5

The surge protective devices are provided with remote contacts.

**Ratings:**

Rated voltage( $U_n$ ):	250 Vac	250 Vdc	125 Vdc	75 Vdc
Rated current:	0,5 A	0,1 A	0,2 A	0,5 A
Connection:	max 1,5 mm <sup>2</sup> solid or flexible			

**TESTS****Test requirements**

EN 61643-11:2012

IEC 61643-11:2011

**Test result**

The test results are laid down in DEKRA test file 2179748.04.

**Remarks**

This certificate is also based on certificate 2168395.03 and replaces certificate 2144983.04 issued on 14 November 2011.

**Conclusion**

The examination proved that all test requirements were met.

Tested by : C.C. Burger

A blue ink signature of C.C. Burger, consisting of a stylized, cursive script.

Checked by : M.T.H. van Gemen

A blue ink signature of M.T.H. van Gemen, consisting of a stylized, cursive script.**Factory locations**

As laid down in DEKRA file 2179748.04.