

# Certificate of Compliance

**Certificate:** 1128189

**Master Contract:** 169790 (LR 36087)

**Project:** 1284526

**Date Issued:** February 21, 2002

**Issued to:** PEPPERL + FUCHS GmbH  
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Attention: Mr. Harald Hofmeister

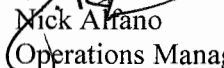
*The products listed below are eligible to bear the CSA Mark shown, with adjacent indicator "C" and "US".*



**Issued by:**

  
R. Wildish

**Authorized by:**

  
Nick Alfano  
Operations Manager

## PRODUCTS



CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations  
CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - CERTIFIED TO U.S. STANDARDS

Class I, Division 1, Groups A, B, C and D; Class I, Zone 1, Groups IIC, IIB, IIA; Type 4X:

Lightning Surge Barriers, models FN-LB-1; Note, the surface to which the FN-LB-1 is mounted must be bonded to earth ground.

The "C" and "US" indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S. This includes products eligible to bear the NRTL indicator. NRTL, i.e. Nationally Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.

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CSA INTERNATIONAL

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CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations  
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations -  
CERTIFIED TO U.S. STANDARDS

Class I, Div.1, Groups A, B, C and D; Class I, Zone 1, Groups IIC, IIB, IIA:

Lightning Surge Barriers, models F\*-LB-1, K-LB-\*.6\*, K-LB-\*.30\*, P-LB-1.A\*, P-LB-1.B\*, P-LB-1.C\*, P-LB-1.D\*, P-LB-1.E\*, P-LB-1.F\*, P-LB-2.A\*, P-LB-2.B\*, P-LB-2.C\*, P-LB-2.D\*, P-LB-2.E\*, P-LB-2.F\* and P-LB-4.A\*;  
intrinsically safe with entity parameters of  $V_{max} = 40\text{ V}$  (K-LB-\*.6\*, K-LB-\*.30\* and P-LB-\*.\*) or  $V_{max} = 48\text{ V}$  (F\*-LB-1),  $I_{max} = 250\text{ mA}$ ,  $C_i = 0$ ,  $L_i = 200\text{ uH}$  (K-LB-\*.6\*, K-LB-\*.30\*, F\*-LB-1),  $L_i = 400\text{ uH}$  (P-LB-1.A\*, P-LB-1.D\*, P-LB-1.F\* and P-LB-2.A\*) or  $L_i = 600\text{ uH}$  (P-LB-1.B\*, P-LB-1.C\*, P-LB-1.E\*, P-LB-2.B\*, P-LB-2.C\*, P-LB-2.D\*, P-LB-2.E\*, P-LB-2.F\* and P-LB-4.A\*) when connected per installation drawing 116-0187.

Notes:

1. The K-LB-\*.\*\* barriers must be mounted in a suitable enclosure. The surface to which the F\*-LB-1 is mounted must be bonded to earth ground; when the devices are connected to grounded shunt diode barriers, the ground must be at the same potential as the shunt diode barrier ground.
2. The model FN-LB-1 is rated Type 4X.

**APPLICABLE REQUIREMENTS**

CSA Std C22.2 No.	30-M1986	-	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No.	94-M91	-	Special Purpose Enclosures
CSA Std C22.2 No.	142-M1987	-	Process Control Equipment
CAN/CSA Std C22.2 No.	157-92	-	Intrinsically Safe and Non-incendive Equipment for Use in Hazardous Locations
UL50 (Ed. 10)	-		Enclosures for Electrical Equipment
UL886	-		Outlet Boxes and Fittings for Use in Hazardous (Classified) Locations
UL913	-		Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations
UL916	-		Energy Management Equipment

**MARKINGS**

- CSA Monogram
- CSA Monogram with C US indicator
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation
- Special Purpose Enclosure Designation (Model FN-LB-1 only)
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Reference to Installation Instructions