

Surge Protectors type DP-LBF-I1.36.DE and DP-LBF-I1.36.IE

Certificate CSA 2437472

Ambient temperature range:

- 50° C to + 50° C for T6
- 50° C to + 75° C for T5
- 50° C to + 80° C for T4

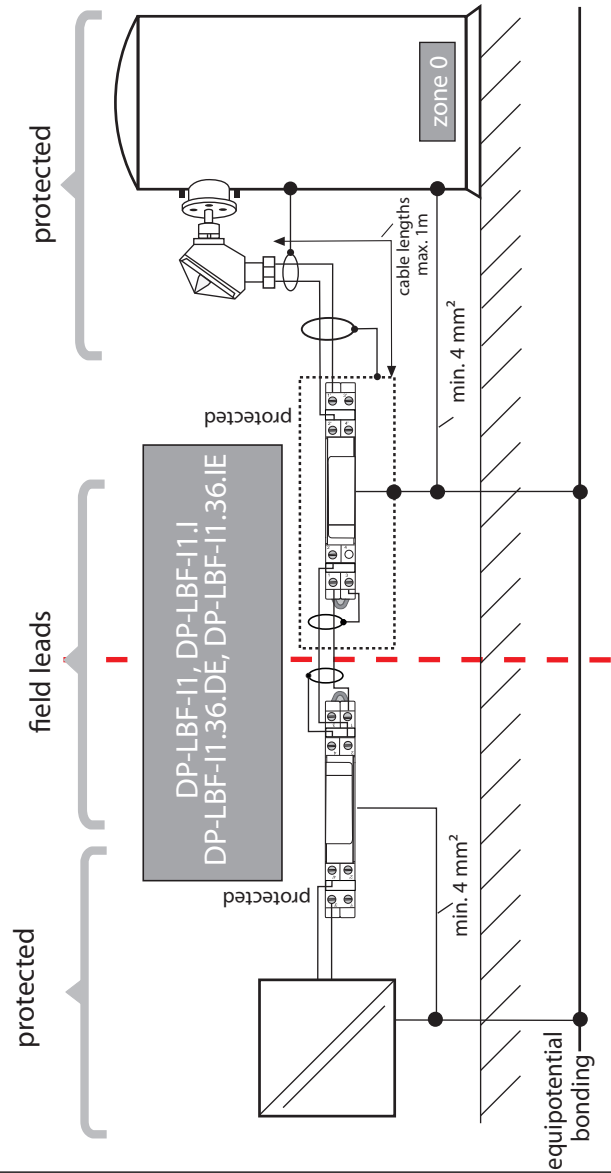
Installation should be in accordance with Canadian Electrical Code CSA C22.2 part I.

Intrinsic Safety

Non hazardous area

Hazardous area

- Class I Div. 1, GP A, B, C, D T4...T6
- Class I, Zone 1, AEx / Ex ia IIC T4...T6



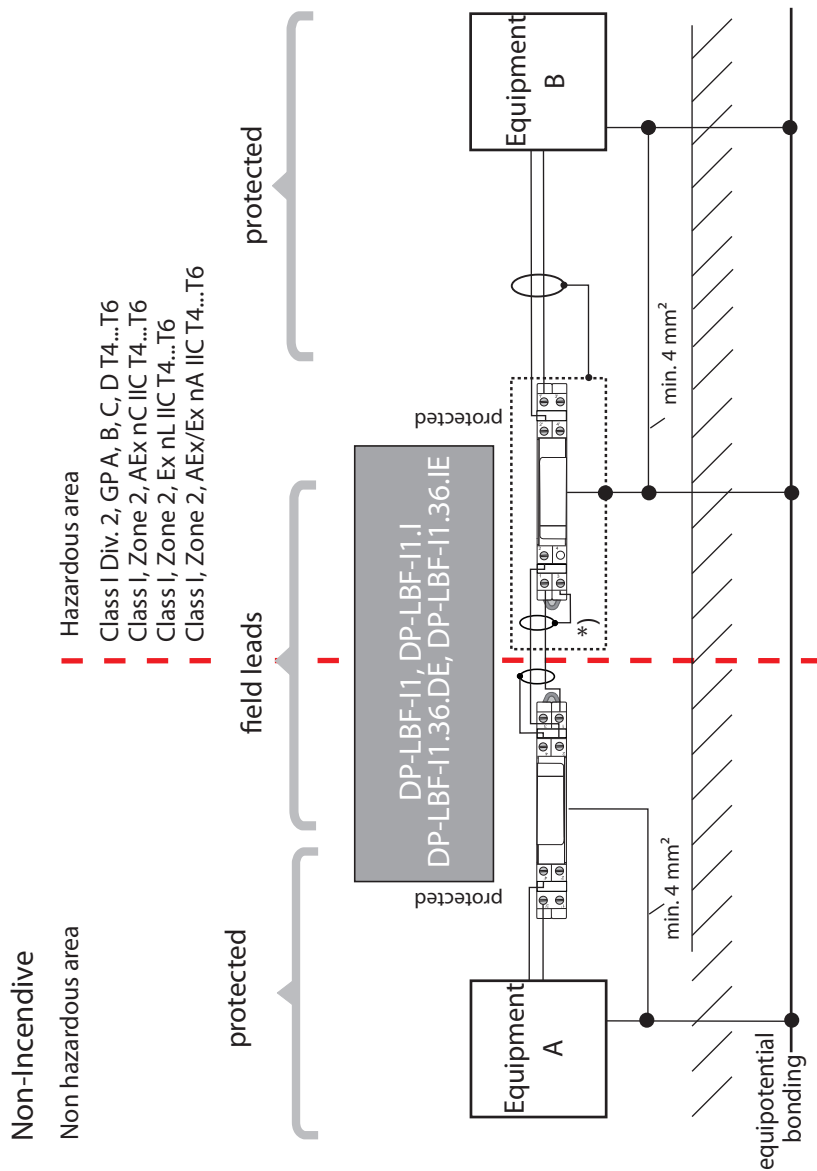
For use in type of protection IS, Class I Div. 1, GP A, B, C, D T4...T6, Class I, Zone 1, AEx ia IIC T4...T6 or Ex ia IIC T4...T6:  
 Module input circuits (terminals 1, 2, 5, 6 for connection to a certified intrinsically safe circuit, with the following maximum values:  
 U<sub>I</sub> = 30 V; I<sub>I</sub> = 500 mA; P<sub>I</sub> = any; C<sub>I</sub> = 0 nF; L<sub>I</sub> = 0 mH  
 or for connection to a certified intrinsically safe circuit or a circuit in accordance with FISCO, with the following maximum values:  
 U<sub>I</sub> = 17.5 V; I<sub>I</sub> = 380 mA; P<sub>I</sub> = 5.32 W; C<sub>I</sub> = 0 nF; L<sub>I</sub> = 0 µH

The module outputs (terminals 3, 4) can be connected to zone 0.

Dieses Dokument enthält sicherheitstechnische Angaben. Es darf nicht ohne Absprache mit dem Normenfachmann geändert werden!

This document contains safety-relevant information. It must not be altered without the authorization of the norm expert!

CONFIDENTIAL acc. to ISO 16016	Only valid as long as released in EDM or with a valid production documentation!	scale: 1:1	date: 2011-07-12
 Mannheim	Control Drawing CSA	respons.	116-0361A
	DP-LBF-I1.36.DE and DP-LBF-I1.36.IE	approved	
		norm	



For use in type of protection NI Class I Div. 2, GPA, B, C, D T4...T6, Class I, Zone 2, AEx nA IIC T4...T6 or Ex nA IIC T4...T6: Module input circuits (terminals 1, 2, 5, 6):  $U_n = 33\text{ V}$ ;  $I_n = 500\text{ mA}$ .

For use in type of protection NI Class I Div. 2, GPA, B, C, D T4...T6, Class I, Zone 2, AEx nC IIC T4...T6 or Ex nL IIC T4...T6: For connection to a limited energy certified circuit, with the following maximum values:  $U_i = 33\text{ V}$ ;  $I_i = 500\text{ mA}$ ;  $P_i = \text{any}$ ;  $C_i = 0\text{ nF}$ ;  $L_i = 0\text{ mH}$ .

\*) The Surge Protectors DP-LBF-11\* shall be installed into an enclosure, which meets the requirements of a recognized type of protection, in accordance with ANSI/ISA-60079-0 (2009) or CAN/CSA-C22.2 No. 60079-0-07.

**Conditions of certification:**

Module output circuits terminals (3, 4, 7, 8):

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 is connected.

The dielectric strength of at least 500 V of the intrinsically safe circuits of the Surge Protector is limited only by the overvoltage protection. Terminals 1, 2, 3, 4 are considered to be connected to earth.

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