



						Product Part No.		Title INSTALLATION DRAWING FOR SURGE BARRIERS - CSA		
a	01-29-02	W.B.	W.B.	D.H.	ECO-3855	THIS DRAWING CONTAINS PROPRIETARY DATA. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART MAY BE MADE EXCEPT BY WRITTEN PERMISSION.				
Revisions						ECO No.				
0	06-09-00	W.B.	W.B.	D.H.	Pepperl+Fuchs® Inc. Twinsburg, OH 44087-2202	Repl.No.	Draw.	116-0187a	Sh. 1 of 2	
In.	Date	Cons.	Resp.	Appr.			No.			

TABLE 1 – ENTITY PARAMETERS

MODEL NUMBER	TERMINALS	V _{max} (V)	I _{max} (mA)	GROUPS	C _i (nF)	L _i (uH)
K-LB-*.6*	1,2; 3,4	40.0	250.0	A,B,C,D	0	200
K-LB-*.30*	1,2; 3,4	40.0	250.0	A,B,C,D	0	200
F*-LB-I	red, black	48.0	250.0	A,B,C,D	0	200
P-LB-1.A*	1,3	40.0	250.0	A,B,C,D	0	200
P-LB-1.B*	1,2	40.0	250.0	A,B,C,D	0	200
P-LB-1.C*	1,2,3	40.0	250.0	A,B,C,D	0	300
P-LB-1.D*	1,2,3,4	40.0	250.0	A,B,C,D	0	400
P-LB-1.E*	2,3	40.0	250.0	A,B,C,D	0	200
P-LB-1.F*	1,2,3,6	40.0	250.0	A,B,C,D	0	400
P-LB-2.A*	1,3;4,6	40.0	250.0	A,B,C,D	0	200
P-LB-2.B*	1,2;4,5	40.0	250.0	A,B,C,D	0	200
P-LB-2.C*	2,3;5,6	40.0	250.0	A,B,C,D	0	200
P-LB-2.D*	1,2,3;4,5,6	40.0	250.0	A,B,C,D	0	300
P-LB-2.E*	1,2,3;4,5,6	40.0	250.0	A,B,C,D	0	300
P-LB-2.F*	2,3;5,6	40.0	250.0	A,B,C,D	0	200
P-LB-4.A*	1,2,3;4,5,6	40.0	250.0	A,B,C,D	0	300

* blank or a combination of number and letters not affecting the intrinsic safety of the product.

NOTES:

- ① The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system when the approved values of Voc and Isc for the associated apparatus are less than or equal to Vmax and Imax for the intrinsically safe apparatus and the approved values of Ca and La for the associated apparatus are greater than Ci (of all I.S. apparatus) + Ccable and Li (of all I.S. apparatus) + Lcable, respectively, for the intrinsically safe apparatus.

Note, the Surge Protection Barriers are passive devices that do not add voltage or current to the I.S. circuit. Therefore, only the Ci and Li values of this device needs to be considered in an I.S. loop.

- ② Wiring methods must be in accordance with the electrical code of the country in use.
- ③ Associated Apparatus must be Certified with Entity parameters and must be installed per manufacturers instructions.
- ④ Exia designates the equipment as INTRINSICALLY SAFE / SÉCURITÉ INTRINSÈQUE.
- ⑤ Models FN-LB-I is also explosion proof and may be wired according to the explosion proof techniques of the country in use.
- ⑥ The surface to which the F*-LB-I 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.
- ⑦ The K-LB-* or P-LB-* barriers must be mounted in a suitable enclosure.

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