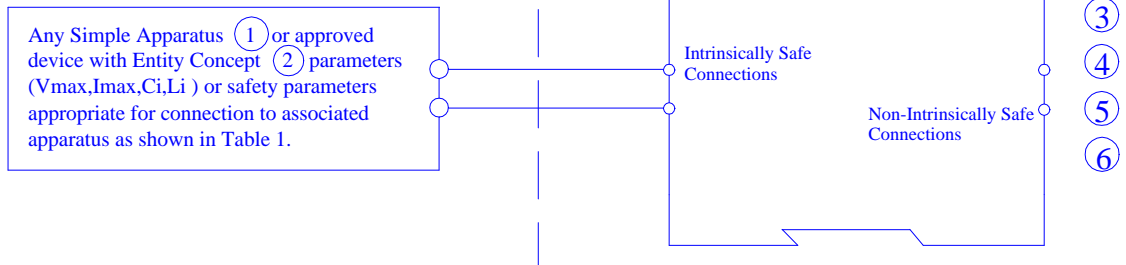


HAZARDOUS (CLASSIFIED) LOCATION

CLASS I, ZONE 0 OR 1, GROUPS IIC, IIB, IIA
 OR
 CLASS I, DIVISION 1, GROUPS A,B,C,D
 CLASS II, DIVISION 1, GROUPS E,F,G
 CLASS III, DIVISION 1

NON-HAZARDOUS LOCATION



Notes:

1. A switch non-inductive resistive device or thermocouple may be connected to the barrier.
2. 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 V_{oc} and I_{sc} for the associated apparatus are less than or equal to V_{max} and I_{max} for the intrinsically safe apparatus and the approved values of C_a and L_a for the associated apparatus are greater than $C_i + C_{cable}$ and $L_i + L_{cable}$, respectively, for the intrinsically safe apparatus.
3. Wiring methods must be in accordance with the Canadian Electrical Code, CSA C22.1, Part F.
4. Barriers shall not be connected to any device which uses or generates internally any voltage in excess of 250 V_{rms} or DC unless the device has been determined to adequately isolate the voltage from the barrier.
5. **WARNING:** Substitution of components may impair intrinsic safety.
AVERTISSEMENT: La substitution de composants peut compromettre la sécurité intrinseque.
6. Connection of the barriers to ground is not required.

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pf PEPPERL+FUCHS	Control Drawing	change notice ECO- 4423	respons.	US.RJS	116-0132g
	Analog Isolators, CSA		approved	US.DCH	
			norm	US.WDB	
Twinsburg					sheet 1 of 4

TABLE 1 – ENTITY/SYSTEM PARAMETERS

Model Number	Terminals	System		Entity							
		Vmax (V)	Res. (W)	Voc (V) (Uo)	Isc (mA) (Io)	Groups Ca (mF)			Groups La(mH)		
						A,B (IIC)	C,E (IIB)	D,F,G (IIA)	A,B (IIC)	C,E (IIB)	D,F,G (IIA)
KFD0-CC-Ex1	1,2	9.6	22000	9.6	0.5	3.5	10.5	28	1000	1000	1000
KFD0-CS-Ex1.50	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex1.50P	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex1.51	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex1.51P	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex1.52	1,2	28.0	Diode Return	28.0	0.0	0.14	0.42	1.14	1000	1000	1000
KFD0-CS-Ex1.53	1,2	10.5	110.5	10.5	95	2.41	16.8	75	4	17	32
KFD0-CS-Ex1.54	1,2	28.0	301	28.0	93	.077	.64	2.14	3.1	16.7	34
KFD0-CS-EX1.54- Y72221	1,2	25.2	586	25.2	43	.101	.81	2.89	19.6	72	153
KFD0-CS-Ex2.50	1,2;4,5	25.2	271	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex2.50P	1,2;4,5	25.2	271	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex2.51	1,2;4,5	25.2	271	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex2.51.GP	1,2;4,5	25.2	271	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex2.51.P	1,2;4,5	25.2	271	25.2	93	.107	.82	2.9	4.3	18	33
KFD0-CS-Ex2.52	1-2,4-5	28.0	Diode Return	28.0	0.0	0.14	0.42	1.14	1000	1000	1000
KFD0-CS-Ex2.53	1-2,4-5	10.5	110.5	10.5	95	2.41	16.8	75	4	17	32
KFD0-CS-Ex2.53P	1-2,4-5	10.5	110.5	10.5	95	2.41	16.8	75	4	17	32
KFD0-CS-Ex2.54	1-2,4-5	28.0	301	28.0	93	.077	.64	2.14	3.1	16.7	34
KFD0-CS-Ex2.54- Y72222	1-2,4-5	25.2	586	25.2	43	.101	.81	2.89	19.6	72	153
KFD0-TR-Ex1	1,2,3	-	-	16.1	33	0.59	1.77	4.72	30	113	268
KFD0-TT-Ex1	1,2,3	-	-	16.1	0.8	0.59	1.77	4.72	1000	1000	1000
KFD2-CD-Ex1.32* * Options -0 thru -25	1,2	28	300	28	93	0.14	0.42	1.14	3.1	16.7	34.0
KFD2-CR-Ex1.20-200	1,3	20	Isc=93mA	20	93	.22	1.41	5.5	4.3	17.72	36.02
KFD2-CR-Ex1.20-240	1,3	20	Isc=93mA	20	93	.22	1.41	5.5	4.3	17.72	36.02
KFD2-CR-Ex1.20-300	1,2,3	-	-	20	115	.22	1.41	5.5	2.82	12	23.98
	1,2	20	Isc=93mA	20	93	.22	1.41	5.5	2.82	12	23.98
	1,3	20	Isc=56mA	20	56	.22	1.41	5.5	2.82	12	23.98
	2,3	4.3	195	4.3	22	.22	1.41	5.5	2.82	12	23.98
KFD2-CR-Ex1.20-304	1,2,3	-	-	20	115	.22	1.41	5.5	2.82	12	23.98
	1,2	20	Isc=93mA	20	93	.22	1.41	5.5	2.82	12	23.98
	1,3	20	Isc=56mA	20	56	.22	1.41	5.5	2.82	12	23.98
	2,3	4.3	195	4.3	22	.22	1.41	5.5	2.82	12	23.98
KFD2-CR-Ex1.20-340	1,2,3	-	-	20	115	.22	1.41	5.5	2.82	12	23.98
	1,2	20	Isc=93mA	20	93	.22	1.41	5.5	2.82	12	23.98
	1,3	20	Isc=56mA	20	56	.22	1.41	5.5	2.82	12	23.98
	2,3	4.3	195	4.3	22	.22	1.41	5.5	2.82	12	23.98
KFD2-CR-Ex1.30-200	1,3	26	279	26	93	.099	.77	2.6	4.3	17.72	36.02
KFD2-CR-Ex1.30-240	1,3	26	279	26	93	.099	.77	2.6	4.3	17.72	36.02


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	Analog Isolators, CSA		ECO- 4423	approved	US.DCH
				norm	US.WDB
				116-0132g	
				sheet 2 of 4	

TABLE 1 – ENTITY/SYSTEM PARAMETERS (Continued)

Model Number	Terminals	System		Entity							
		Vmax (V)	Res. (W)	Voc (V) (Uo)	Isc (mA) (Io)	Groups Ca (mF)			Groups La(mH)		
						A,B (IIC)	C,E (IIB)	D,F,G (IIA)	A,B (IIC)	C,E (IIB)	D,F,G (IIA)
KFD2-CR-Ex1.30-300	1,2,3	-	-	26	115	.099	.77	2.6	2.82	12	23.98
	1,2	26	279	26	93	.099	.77	2.6	2.82	12	23.98
	1,3	26	464	26	56	.099	.77	2.6	2.82	12	23.98
	2,3	4.1	195	4.3	22	.099	.77	2.6	2.82	12	23.98
KFD2-CR-Ex1.30-300-90C	1,2,3	-	-	26	115	.099	.77	2.6	2.82	12	23.98
	1,2	26	279	26	93	.099	.77	2.6	2.82	12	23.98
	1,3	26	464	26	56	.099	.77	2.6	2.82	12	23.98
	2,3	4.1	195	4.3	22	.099	.77	2.6	2.82	12	23.98
KFD2-CR-Ex1.30-304	1,2,3	-	-	26	115	.099	.77	2.6	2.82	12	23.98
	1,2	26	279	26	93	.099	.77	2.6	2.82	12	23.98
	1,3	26	464	26	56	.099	.77	2.6	2.82	12	23.98
	2,3	4.1	195	4.3	22	.099	.77	2.6	2.82	12	23.98
KFD2-CR-Ex1.30-340	1,2,3	-	-	26	115	.099	.77	2.6	2.82	12	23.98
	1,2	26	279	26	93	.099	.77	2.6	2.82	12	23.98
	1,3	26	464	26	56	.099	.77	2.6	2.82	12	23.98
	2,3	4.1	195	4.3	22	.099	.77	2.6	2.82	12	23.98
KFD2-PT-Ex1	1,2,3,4,5	-	-	10.6	31.7	2.6	7.8	20.8	34.0	121	291
KFD2-PT2-Ex1*	1,2,3,4,5	-	-	10.4	31.4	2.53	17.4	79	36	132.5	273.55
* Options -1 thru -5											
KFD2-PT2-Ex1-Y98312	1,2,3,4,5	-	-	10.4	46	2.53	17.4	79	17.2	64.57	136.24
KFD2-PT2-Ex1-1-Y107265	1,2,3,4,5	-	-	10.4	46	2.53	17.4	79	17.2	64.57	136.24
KFD2-PT2-Ex1-2-Y107266	1,2,3,4,5	-	-	10.4	46	2.53	17.4	79	17.2	64.57	136.24
KFD2-PT2-Ex1-3-Y107267	1,2,3,4,5	-	-	10.4	46	2.53	17.4	79	17.2	64.57	136.24
KFD2-PT2-Ex1-4-Y107268	1,2,3,4,5	-	-	10.4	46	2.53	17.4	79	17.2	64.57	136.24
KFD2-PT2-Ex1-5-Y107269	1,2,3,4,5	-	-	10.4	46	2.53	17.4	79	17.2	64.57	136.24
KFD2-RR-Ex1	1,2,3,4,5	-	-	12.4	17	1.24	7.9	30	120	458	855
KFD2-SCD-Ex1.LK	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	17.72	36.02
KFD2-SD-Ex1.17	1,2	17.22	78	17.22	220	.353	2.06	8.5	.56	1.67	4.46
KFD2-SD-Ex1.36	1,2	25.9	140.7	25.9	184	-	.77	2.63	-	4.78	9.61
KFD2-SD-Ex1.36-87B	1,2	25.9	140.7	25.9	184	-	.77	2.63	-	4.78	9.61
KFD2-SD-Ex1.47	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	17.72	36.02
KFD2-SD-Ex1.48	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	17.72	36.02
KFD2-SD-Ex1.48-90A	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	17.72	36.02
KFD2-SL-Ex1.17	1,2	17.22	78	17.22	220	.353	2.06	8.5	.56	1.67	4.46
KFD2-SL-Ex1.36	1,2	25.9	140.7	25.9	184	-	.77	2.63	-	4.78	9.61
KFD2-SL-Ex1.47	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	17.72	36.02
KFD2-SL-Ex1.48	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	17.72	36.02
KFD2-SL-Ex1.48-90A	1,2	25.2	270	25.2	93	.107	.82	2.9	4.3	17.72	36.02



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				116-0132g	
				sheet 3 of 4	

TABLE 1 – ENTITY/SYSTEM PARAMETERS (Continued)

Model Number	Terminals	System		Entity							
		Vmax (V)	Res. (W)	Voc (V) (Uo)	Isc (mA) (Io)	Groups Ca (mF)			Groups La(mH)		
						A,B (IIC)	C,E (IIB)	D,F,G (IIA)	A,B (IIC)	C,E (IIB)	D,F,G (IIA)
KFD2-STC1-Ex1	1,3	25.2	270	25.2	93	.082	.79	2.87	4.3	17	35
KFD2-STC1-Ex1-1	1,3	25.2	270	25.2	93	.082	.79	2.87	4.3	17	35
KFD2-STC3-Ex1* * Options -1 thru -3	1,3	28.0	300	28.0	93.0	0.14	0.42	1.14	3.1	16.7	34.0
KFD2-STV1-Ex1	1,3	25.2	270	25.2	93	.082	.79	2.87	4.3	17	35
KFD2-STV1-Ex1-1	1,3	25.2	270	25.2	93	.082	.79	2.87	4.3	17	35
KFD2-STV3-Ex1* * Options -1 thru -3	1,3	28.0	300	28.0	93.0	0.14	0.42	1.14	3.1	16.7	34.0
KFD2-TR-Ex1	1,2,3,7,8,9	-	-	8.9	19.0	5.1	15.5	41.0	93.0	329	823
KFD2-TT-Ex1	1,3	-	-	6.4	6.4	36.0	109	291	1000	1000	1000
KFD2-UT-Ex1	1,2,3,4,5	-	-	11	33	1.97	13.8	60	32	121	251
KFD2-UT-Ex1-1	1,2,3,4,5	-	-	11	33	1.97	13.8	60	32	121	251
KFD2-VR3-Ex1.26	4,5	25.0	307	-	-	-	-	-	-	-	-
	4,6	25.0	Isc=4.6ma	-	-	-	-	-	-	-	-
	4,5,6	-	-	26.0	88.0	0.17	0.51	1.30	4.6	18.6	38.0
KFD2-VR-Ex1.18	4,5	18.0	4400	18.0	4.2	.309	1.78	7.6	492	1000	1000
KFD2-VR-Ex1.19	4,5	18.0	4400	18.0	4.2	.309	1.78	7.6	492	1000	1000
KFD2-VR-Ex1.19- Y109129	4,5	15.5	2152	15.5	7.2	.309	1.78	7.6	492	1000	1000
KFD2-VR-Ex1.500m	4,5	5.1	2280	5.1	2.2	1000	3000	8000	1000	1000	1000
KFD2-VR-Ex1.500m.L	4,5	5.1	2280	5.1	2.2	1000	3000	8000	1000	1000	1000
KFD2-VR-Ex1.500m.R	4,5	5.1	2280	5.1	2.2	1000	3000	8000	1000	1000	1000
KFD2-VR-Ex1.50m	4,5	3.9	2280	3.9	1.7	1000	3000	8000	1000	1000	1000
KFD2-VR-Ex1.50m.L	4,5	3.9	2280	3.9	1.7	1000	3000	8000	1000	1000	1000
KFD2-VR-Ex1.50m.R	4,5	3.9	2280	3.9	1.7	1000	3000	8000	1000	1000	1000
KFD2-WAC-Ex1	1,2,3,7,8,9	-	-	17.6	314	0.44	1.32	3.52	0.19	0.57	1.52
KFD2-WAV-Ex1	1,2,3,7,8,9	-	-	17.6	314	0.44	1.32	3.52	0.19	0.57	1.52

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