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CERTIFICATION DOCUMENT 366-024CS-12

KFD2-UT2-Ex.-.
CSA Control Drawings

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General

The following control drawings are provided to show interconnection between KFD2-UT2-Ex.-. apparatus and other circuits or apparatus resulting in an Intrinsically Safe System.
An Intrinsically Safe System could consist of the interconnection of Intrinsically Safe Apparatus and Associated Apparatus separately investigated under the Entity Evaluation Concept.

Installation Notes

1. KFD2-UT2-Ex.-. apparatus must be installed in enclosure and use wiring methods in accordance with:
   For Canadian applications: the Canadian Electrical Code (CEC), CSA C22.1,Part 1, Appendix F.
   For US applications: ANSI/ISA RP12.06.01 “Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations” and the National Electrical Code (ANSI/NFPA 70).
2. Passive components such as light-emitting diodes (LEDs), resistors, resistance temperature detectors (RTDs), and switches. Themocouples, and similar sources of generated energy that will not generate more than 1.5 volts, 0.1 ampere, and 25 milliwatts.
3. Intrinsically Safe Apparatus manufacturer’s installation drawings must be followed when installing such equipment.
4. Maximum ambient temperature: 60°C.
5. Control equipment connected to KFD2-UT2-Ex.-. apparatus must not use or generate more than 250Vrms or Vdc.
6. The Entity Evaluation Concept allows the interconnection of Intrinsically Safe Apparatus with Associated Apparatus not specifically examined in combination as a system when:
   V_{oc} or or U_o or $V_t \leq V_{max}$ or U_i;
   I_{sc} or I_o or $I_t \leq I_{max}$ or I_i;
   $P_o \leq P_i$
   C_a or $C_o \geq C_i + C_{cable}$
   L_a or $L_o \geq L_i + L_{cable}$
7. No revision to drawing without prior acceptance from CSA.
8. **WARNING: To prevent ignition of flammable or combustible atmospheres disconnect power before servicing.**

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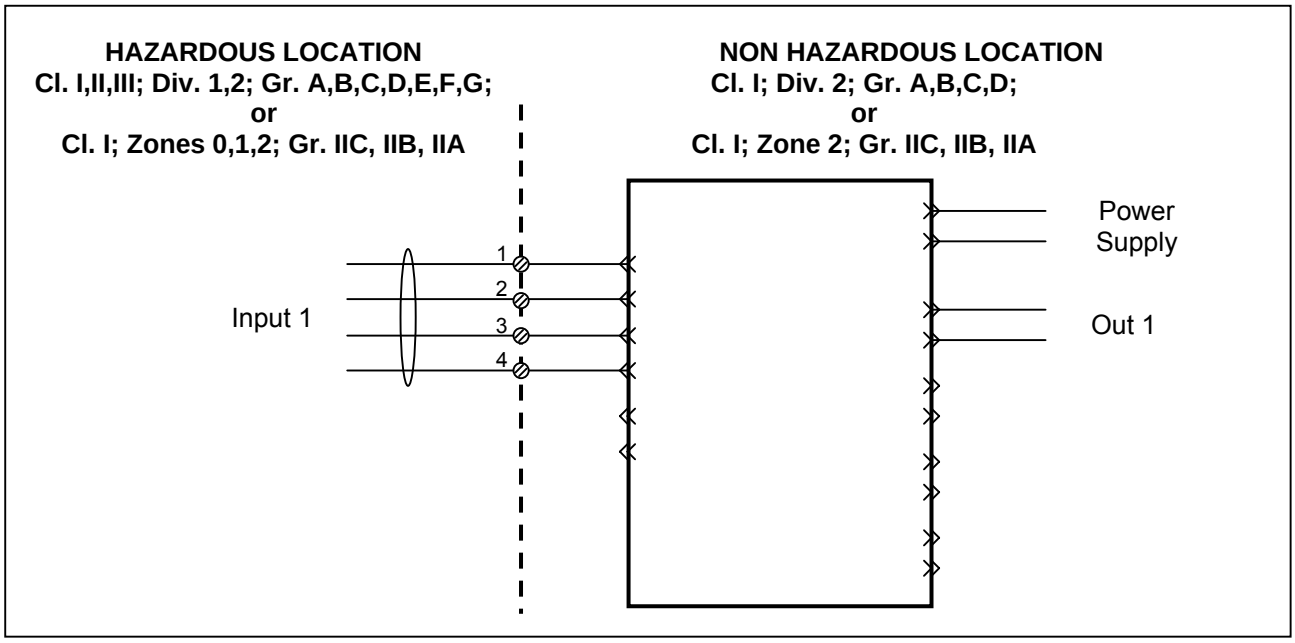

Models	CSA Entity Parameters								
	Haz. Loc. Terminals	Voc (V)	Isc (mA)	Po (mW)	Gas Groups		Ca (µF)	La (mH)	NOTE
KFD2-UT2-Ex1-.	1-2-3-4	9V	22mA	50mW	A, B	IIC	4.9	68	
					C, E	IIB	40	275	
					D, F, G	IIA	500	550	

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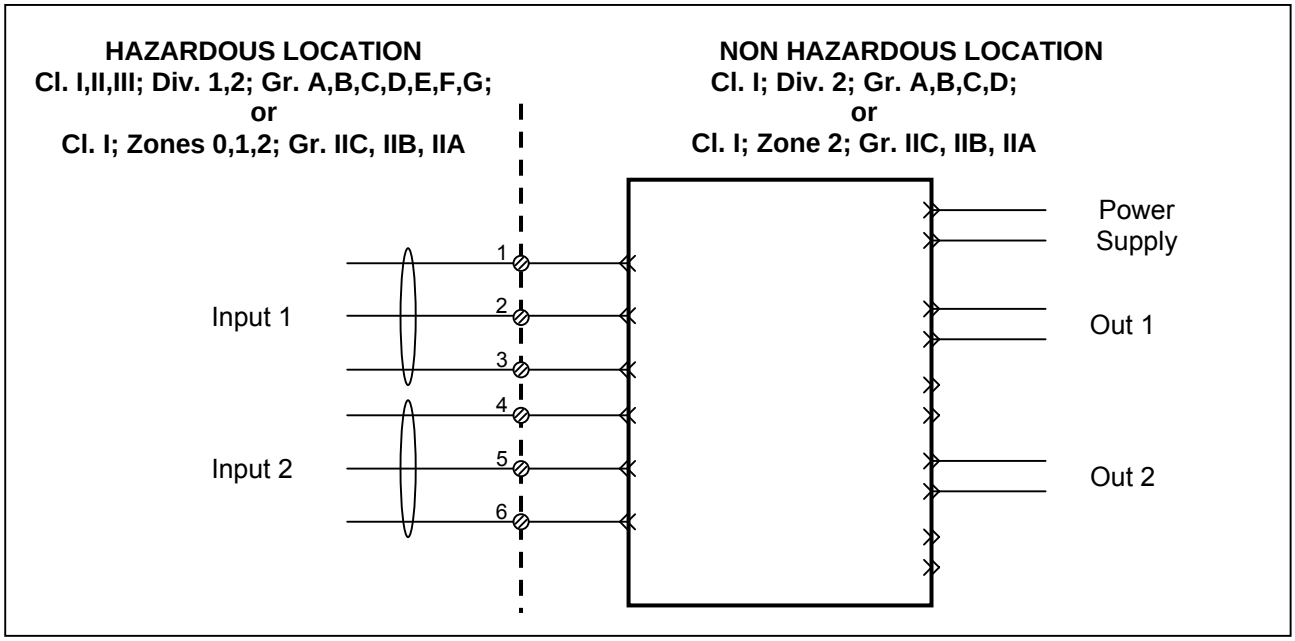

Models	CSA Entity Parameters								
	Haz. Loc. Terminals	Voc (V)	Isc (mA)	Po (mW)	Gas Groups		Ca (µF)	La (mH)	NOTE
KFD2-UT2-Ex2-.	1-2-3 4-5-6	9V	22mA	50mW	A, B	IIC	4.9	68	
					C, E	IIB	40	275	
					D, F, G	IIA	500	550	

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