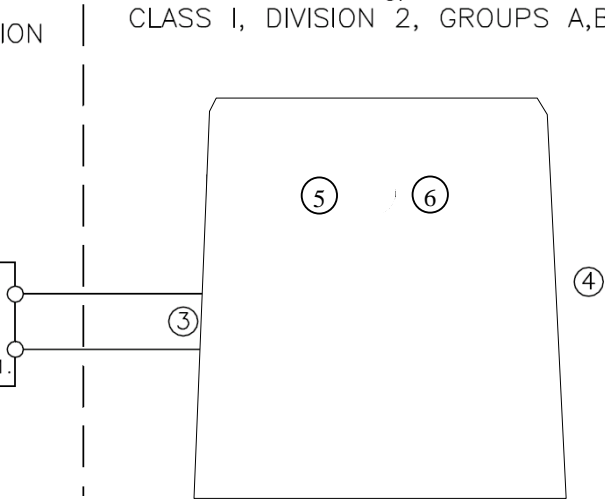


NONHAZARDOUS LOCATION
or
HAZARDOUS (CLASSIFIED) LOCATION
CLASS I, DIVISION 1, GROUPS A,B,C,D
CLASS II, DIVISION 1, GROUPS E,F,G
CLASS III, DIVISION 1

NONHAZARDOUS LOCATION
or
CLASS I, DIVISION 2, GROUPS A,B,C,D

Any Simple Apparatus (2) or approved device with Entity Concept (1) parameters (V_{max} , I_{max} , C_i , L_i) appropriate for connection to Associated Apparatus with Entity Concept parameters listed in Table 1.



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 V_{oc} (or U_o) and I_{sc} (or I_o) for the associated apparatus are less than or equal to $V_{max}(U_i)$ and $I_{max}(I_i)$ for the intrinsically safe apparatus and the approved values of $C_a(C_o)$ and $L_a(L_o)$ for the associated apparatus are greater than $C_i + C_{cable}$ and $L_i + L_{cable}$, respectively, for the intrinsically safe apparatus.
- ② Simple Apparatus: An electrical component or combination of components of simple construction with well defined electrical parameters that does not generate more than 1.5 volts, 100 milliamps, and 25 milliwatts, or a passive component that does not dissipate more than 1.3 watts and is compatible with the intrinsic safety of the circuit in which it is used.
- ③ Wiring methods must be in accordance with the electrical code of the country in use. Modules with multiple intrinsically safe field wiring pairs shall be installed as separate intrinsically safe circuits.
- ④ Barriers shall not be connected to any device which uses or generates internally any voltage in excess of 250V r.m.s. or DC unless the device has been determined to adequately isolate the voltage from the barrier.
- ⑤ These barriers are rated for Class I, Division 2. If the barriers are intended to be mounted in a Division 2 location, they must be mounted in an enclosure with a minimum ingress protection of IP2X and which is capable of accepting one or more Division 2 wiring methods. A temperature rating of T4 applies.
- ⑥ WARNING: Substitution of components may impair intrinsic safety and suitability for Division 2 hazardous (classified) Locations.
ADVERTISEMENT: La substitution de composants peut compromettre la sécurité intrinsèque.



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CONFIDENTIAL acc. to ISO 16016			date: 2010-Mar-17	
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	KFD2-RCI-Ex1	approved		
		norm		
Worldwide			sheet 1 of 2	

Table 1 – ENTITY PARAMETERS								
MODEL NUMBER	TERMINALS	$V_{oc} (U_0)$ [V]	$I_{sc} (I_0)$ [mA]	P_0 [mW]	GROUPS	$C_a (C_0)$ [uF]	$L_a (L_0)$ [mH]	L_0 / R_0 [uH / Ω]
KFD2-RCI-Ex1	1,2,3	25.4	93.6	595	A,B IIC	0.104	4.05	60
					C,E,F,G IIB	0.81	16.2	240
					D IIA	2.82	32.4	480

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