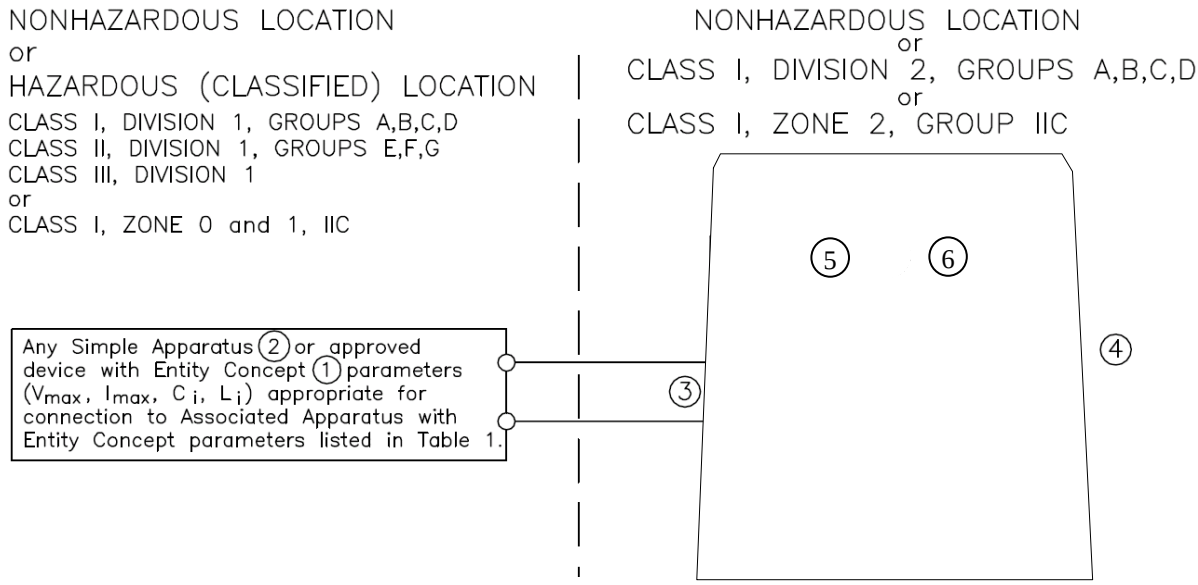

NOTES:

(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 (or Uo) and Isc (or Io) for the associated apparatus are less than or equal to Vmax(Ui) and Imax(Ii) for the intrinsically safe apparatus and the approved values of Ca(Co) and La(Lo) for the associated apparatus are greater than Ci + Ccable and Li + Lcable, 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) The barriers are rated ‘Nonincendive’. 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. If the barriers are intended to be mounted in a Zone 2 location that is subject to contamination by water or dust, they must be mounted in an enclosure with a minimum ingress protection of IP54. If the barriers are intended to be mounted in a Zone 2 indoor location that is not subject to contamination by water or dust, they must be mounted in an enclosure with a minimum ingress protection of IP4X. The enclosure must be able to accept Division 2 / Zone 2 wiring methods. A temperature rating of T4 applies to all nonincendive rated barriers.

(6) WARNING: Substitution of components may impair intrinsic safety and suitability for Division 2/ Zone 2 hazardous (classified) Locations.
ADVERTISEMENT: La substitution de composants peut compromettre la sécurité intrinsèque.

For Zone 2 installations, ensure protection of supply terminals against transient voltages exceeding 140% of the rated supply voltage.

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]
HiC2025 HiC2031	5a,5b	25.2	100	630	A,B IIC	0.1	3.5	57
					C,E,F,G IIB	0.81	14	227
					D IIA	2.8	28	453
	5a,1b(or 7a)	7.2	100	25	A,B IIC	13.49	3.5	1437
					C,E,F,G IIB	239	14	5746
					D IIA	1000	28	11493
HiC2821 HiC2822	5a,5b; 1a,1b	10.5	17.1	45	A,B IIC	2.41	121.5	792
					C,E,F,G IIB	16.8	486.3	3167
					D IIA	75	972.7	6334
HiC2851	5a,5b	10.5	17.1	45	A,B IIC	2.41	121.5	792
					C,E,F,G IIB	16.8	486.3	3167
					D IIA	75	972.7	6334
HiC2871	5a,5b	25.2	110	693	A,B IIC	0.107	2.94	51
					C,E,F,G IIB	0.82	11.75	205
					D IIA	2.9	30	411