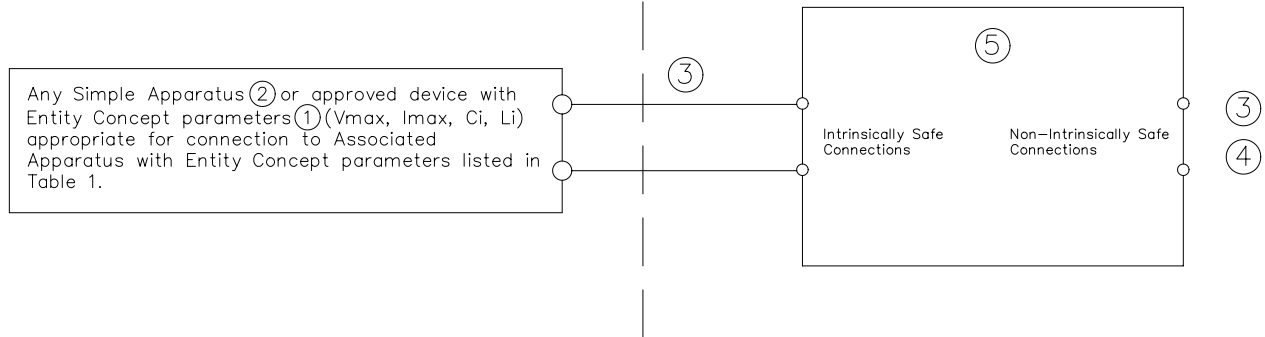


NONHAZARDOUS LOCATION
or
HAZARDOUS (CLASSIFIED) LOCATION
CLASS I, ZONE 0, GROUPS IIC, IIB, IIA
CLASS I, DIVISION 1, GROUPS A,B,C,D
CLASS II, DIVISION 1, GROUPS E,F,G

NONHAZARDOUS LOCATION



Notes:


- ① The entity concept allows interconnection of intrinsically safe and associated apparatus not specifically examined in combination as a system when the approved values of U_o (or V_{oc}) and I_o (or I_{sc}) for the associated apparatus are less than or equal to U_i (or V_{max}) and I_i (or I_{max}) for the intrinsically safe apparatus and the approved values of C_o (or C_a) and L_o (or L_a) 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" is defined as a device that will neither generate nor store more than 1.2V, 0.1A, 20 μ J or 25mW.
- ③ Wiring methods must be in accordance with the National Electrical Code.
- ④ Barriers shall not be connected to any device that uses or generates in excess of 250 Vrms or DC unless it has been determined that the voltage is adequately isolated from the barrier.
- ⑤ These barriers must be installed in an enclosure meeting the requirements of ANSI/ISA S82.

Table 1: Entity Parameters

Model Numbers	Terminals	Load Parameters										
		$U_o(V)$ (V_{oc})	$I_o(mA)$ (I_{sc})	$V_t(V)$	$I_t(mA)$	$P_o(mW)$	$C_o(\mu F)$ GRPS			$L_o(mH)$ GRPS		
							IIC (A,B)	IIB (C,E)	IIA (D,F,G)	IIC (A,B)	IIB (C,E)	IIA (D,F,G)
WE 77/EX1	1,2	13.4	31	–	–	145	.410	1.7	1.7	1	5	5
	1–5	–	–	13.4	31	145	.410	1.7	1.7	1	5	5
WE 77/EX2	1,2; 8,9	13.4	31	–	–	145	.410	1.7	1.7	1	5	5
	1–9	–	–	13.4	62	290	.360	1.5	1.5	1	5	5

Dieses Dokument enthält sicherheitstechnische Angaben. Es darf nicht ohne Absprache mit dem Normenfachmann geändert werden!

This document contains safety-relevant information. It must not be altered without the authorization of the norm expert!

CONFIDENTIAL according ISO 16016	Only valid as long as released in EDM or with a valid production documentation!	scale: 1:1	date: 2003-Oct-23
 Twinsburg	Control drawing WE77 series UL, C-UL	change notice	respons. US.JAZ
		150-0166	approved US.DCH
		norm US.WDB	116-0115c sheet 1 of 2