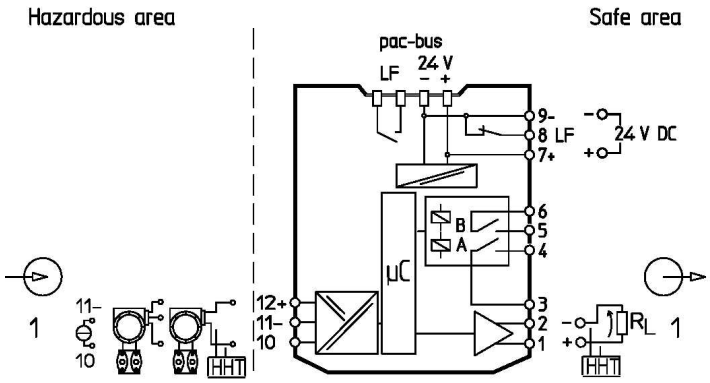

Hazardous area: Class I, II, III; DIV 1; Group A-G or Class I; Zone 0; Group IIC/IIB Hazardous Locations
Safe area: Non-hazardous, Division 2 or Zone 2 Hazardous (Classified) Locations

The Transmitter Supply Unit with Limit Values Type 9162/13-11-14 is an associated apparatus as well as a non-incendive apparatus for installation in non-hazardous or Class I, Division 2 or Zone 2 Hazardous (Classified) Locations and provides intrinsically safe connections for one field device located in Class I, II, III, Division 1, Group A-G or Class I, Zone 0 [AEx ia] Group IIC, hazardous locations according to NEC Article 504/505 as listed below.

Entity parameters for wiring configurations are as follows:

	V_{OC} [V]	I_{SC} [mA]	P_O [mW]	L_o CL I, DIV 1, A,B / Zone 0, GP IIC	L_o CL I, DIV 1, C-G / Zone 0, GP IIB	C_o CL I, DIV 1, A,B / Zone 0, GP IIC	C_o CL I, DIV 1, C-G / Zone 0, GP IIB	V_{max} [V]	I_{max} [mA]
for 2-wire transmitter	27.0	87.9	574	2.3 mH	14 mH	90 nF	705 nF	-	-
for 3-wire transmitter	27.0	88.3	574	2.3 mH	14 mH	90 nF	705 nF	-	-
active current source	4.1	≈ 0	≈ 0	1000 mH	1000 mH	100 000 nF	1 00 000 nF	30	100

Notes:

1. For Connections refer to chapter Commissioning of Operation Instruction ID-No. 9162 6 031 014 0.
2. Intrinsically safe apparatus may be switches, thermocouples, LEDs, RTDs or an FM Approved System or Entity device connected in accordance with the manufacturer´s installation instructions.
3. For Entity concept use the appropriate parameters to ensure the following:
   V_t or $V_{OC} \leq V_{max}$ $\quad C_o, C_a \geq C_i + C_{leads}$ $\quad P_o \leq P_i$
   I_t or $I_{SC} \leq I_{max}$ $\quad L_o, L_a \geq L_i + L_{leads}$
4. Electrical apparatus connected to an intrinsically safe system should not use or generate voltages > 250 V (U_{max}).
5. Installation should be in accordance with Article 504/505 of the National Electrical Code, ANSI/NFPA 70 and ANSI/ISA RP 12.06.01.
6. Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.
7. Use a general purpose enclosure meeting the requirements of IEC 61010-1 for use in non-hazardous or Class I, Division 2, Hazardous (Classified) Locations.
8. Use an FM Approved Dust-ignition proof enclosure appropriate for environmental protection in Class II, Division 1, Groups E, F and G; and Class III, Hazardous (Classified) Locations.
9. These modules are to be mounted on DIN rail, DIN rail with pac-Bus (type 9194) or pac-Carrier (type 9195). The I.S. field wiring in any case is connected to the ISpac device terminals.
10. Ambient temperature: -40°C … +70°C (any mounting position)

WARNING: Do not disconnect equipment when a flammable or combustible atmosphere is present.
AVERTISSEMENT: Ne pas débrancher l'équipement en présence d'atmosphère inflammable ou combustible.

The safety relevant statements of this document may be transferred into the operating instructions.
Transferring the text, editorial changes of equivalent meaning are allowed.

						Certification drawing	Scale
			2006	Date	Name		
06	23.03.15	Reistle	drawn	24.05.	Einsiedler	Transmitter Supply Unit with Limit Values	none
05	04.01.13	Reistle	checked		Kaiser		Sheet
04	22.10.12	Reistle				Type 9162/13-11-14	1 of 1
03	13.12.11	Reistle					
02	29.09.09	Reistle				9162 6 031 001 1	Agency
01	19.09.06	Einsiedler					FM
Version	Date	Name				Ers. f. / Ers. d.	A4

F 4830 503 G