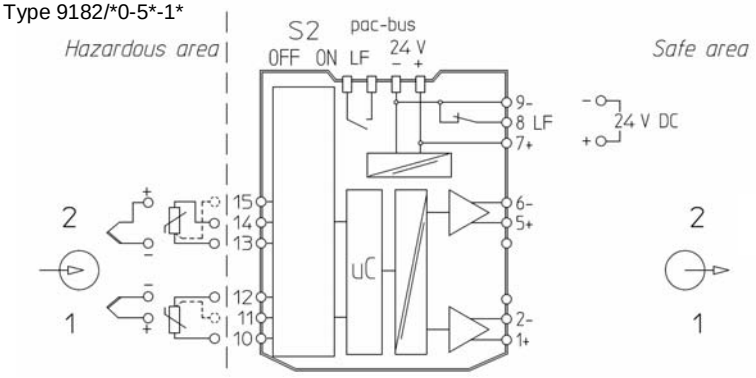
Type 9182/*0-5*-1*



Hazardous area: Class I, II, III; Div. 1; Group A-G; Hazardous Locations
Safe area: Non-hazardous Locations

The Temperature Transmitter Type 9182 is an associated apparatus and provides intrinsically safe connections for one (or two) field devices located in Class I, II, III, Division 1, Group A-G, hazardous locations according to NEC Article 504 as listed below.

Temperature Transmitter Type 9182/a0-5b-1c

a = numeral 1 or 2 for number of channels
b = numeral 0, 1, 3 or 9 for analog output
c = numeral 1 or 2 for number of contacts

Entity parameters for wiring configurations are as follows:

	V_{OC}	I_{SC}	P_O	L_o CL.I, Div.1, A,B	L_o CL.I, Div.1, C-G	C_o CL.I, Div.1, A,B	C_o CL.I, Div.1, C-G
Type 9182/*0-5*-1*	6.5 V	19.7 mA	32 mW	90 mH	330 mH	25 µF	570 µF

Maximum supply current (at 18 V DC source, terminals 7+ and 9-):

9182/10-51-11	9182/10-51-12	9182/10-50-12	9182/20-51-11	9182/20-50-12	9182/10-59-11	9182/10-59-12
110 mA	120 mA	90 mA	130 mA	100 mA	90 mA	90 mA

Notes:

1. Intrinsically safe apparatus may be Simple Apparatus in accordance with Article 504 of the National Electrical Code, ANSI/NFPA 70 (for example: switches, thermocouples, LEDs, RTDs) a third-party certified or Entity device connected in accordance with the manufacturer´s installation instructions.
2. For Entity concept use the appropriate parameters to ensure the following:
   V_t or $V_{OC} \leq V_{max}$ $\quad C_a \geq C_i + C_{Cable}$
   I_t or $I_{SC} \leq I_{max}$ $\quad L_a \geq L_i + L_{Cable}$
3. Capacitance and inductance of the field wiring from the intrinsically safe equipment to the associated apparatus shall be calculated and must be included in the system calculations as shown above. Cable capacitance (Cc) plus intrinsically safe equipment capacitance (Ci) must be less than the marked capacitance (Ca or Co) shown on any associated apparatus used. The same applies for inductance (Lc, Li and La or Lo, respectively). Where the cable capacitance and inductance per foot are not known, the following values shall be used: Cc=60pF/ft., Lc=0.2µH/ft.
4. Electrical apparatus connected to an intrinsically safe system should not use or generate voltages > 250 V (U_{max}).
5. Instrinsically safe circuits must be installed, wired and separated in accordance with Article 504.20 of the National Electrical Code (ANSI/NFPA 70)
6. Where multiple circuits extend from the same piece of associated apparatus, they must be installed in separate cables or in one cable having suitable insulation. Refer to Article 504 of the National Electrical Code and Instrument Society of America Recommended Practice ISA RP12.6 for installing intrinsically safe equipment.
7. Associated Apparatus must be installed in an enclosure suitable for the application in accordance with the National Electrical Code, ANSI/NFPA 70.
8. Use an UL or NRTL listed 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. The isolators have not been evaluated for use in electrical combination with other associated apparatus.
10. These modules are to be mounted on DIN rail, DIN rail with pac-Bus (type 9194) or pac-Carrier (type 9195). The field wiring in any case is connected to the IS pac device terminals.
11. Ambient temperature: -20 °C … +70 °C (any mounting position)

WARNING: To prevent ignition of flammable or combustible atmospheres disconnect power before servicing

			2007	Date	Name	Certification drawing Temperature Transmitter Type 9182	Scale: none
			Drawn by	18.04.	Einsiedler		Sheet: 1 of 1
			Checked	18.04.	Kaiser		
					STAHL	91 826 01 31 3	Agency: UL
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