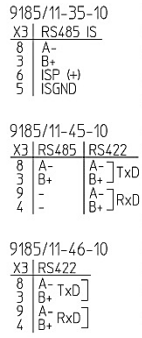


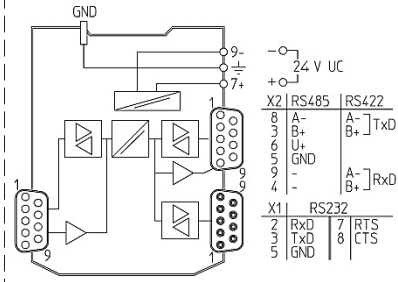
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Type 9185/11--10**

Hazardous area

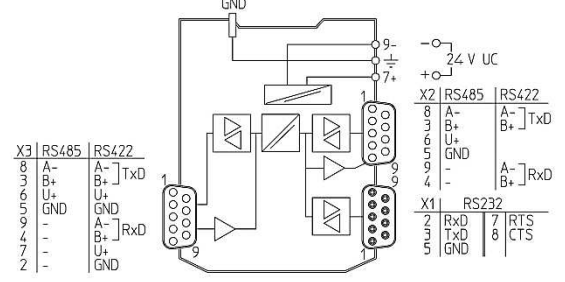


Safe area



Type 9185/12-4*-10

Safe area



The Fieldbus Isolating Repeater Type 9185/11-**-10 is an associated apparatus as well as a nonincendive apparatus for installation in Non-Hazardous, Class I, Division 2 or Zone 2 Hazardous (Classified) Locations providing intrinsically safe connections for one field device located in Class I, II, III, Division 1, Group A-G or Class I, Zone 1 [AEx ib] Group IIC, Hazardous Locations according to NEC Article 504/505 as listed below.

The Fieldbus Isolating Repeater Type 9185/12-4*-10 is a nonincendive apparatus located in Non-Hazardous or Class I, Division 2 or Zone 2 Hazardous Location.

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

Fieldbus Isolating Repeater Type 9185/1b-cd-10
 b = numeral 1 or 2 for I.S. or non I.S. field interface
 c = numeral 3 or 4 for type of field interface
 d = numeral 5 or 6 for functionality

Entity parameters for wiring configurations are as follows:

Type	V _{OC} [V]	I _{SC} [mA]	P _O [mW]	L _o		C _o		V _{max} [V]	I _{max}
				CL I, DIV 1, A, B/ Zone 1, GP IIC	CL I, DIV 1, C-G/ Zone 1, GP IIB	CL I, DIV 1, A, B/ Zone 1, GP IIC	CL I, DIV 1, C-G/ Zone 1, GP IIB		
9185/11-35-10	3.73	149	139	1.3 mH	7 mH	100 µF	1000 µF	± 4.2	-
9185/11-45-10	5.88	50	73.3	15 mH	56 mH	43 µF	1000 µF	± 5.88	-
9185/11-46-10	5.88	50	73.3	15 mH	56mH	43 µF	1000 µF	± 5.88	-

Notes:

- 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.
- For Entity concept use the appropriate parameters to ensure the following:
 V_t or $V_{OC} \leq V_{max}$ $C_o, C_a \geq C_i + C_{leads}$ $P_o \leq P_i$
 I_t or $I_{SC} \leq I_{max}$ $L_o, L_a \geq L_i + L_{leads}$
- Electrical apparatus connected to an intrinsically safe system should not use or generate voltages > 250 V (U_{max}).
- Installation should be in accordance with Article 504/505 of the National Electrical Code, ANSI/NFPA 70 and ANSI/ISA RP 12.06.01.
- Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.
- 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.
- 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.
- 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 ISpac device terminals.
- Ambient temperature: -20°C ... +70°C (any mounting position)

WARNING: Do not disconnect equipment when a flammable or combustable 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.

			2007	Date	Name	Certification drawing		Scale
			drawn	04.05.	Einsiedler	Fieldbus Isolating Repeater Type 9185/1*-**-10		none
			checked		F. Danko			Sheet
								1 of 1
03	28.02.14	Reistle				91 856 01 31 1		Agency
02	22.10.12	Reistle						FM
01	24.08.11	Reistle						
Version	Date	Name				Ers. f.	Ers. d.	A4



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