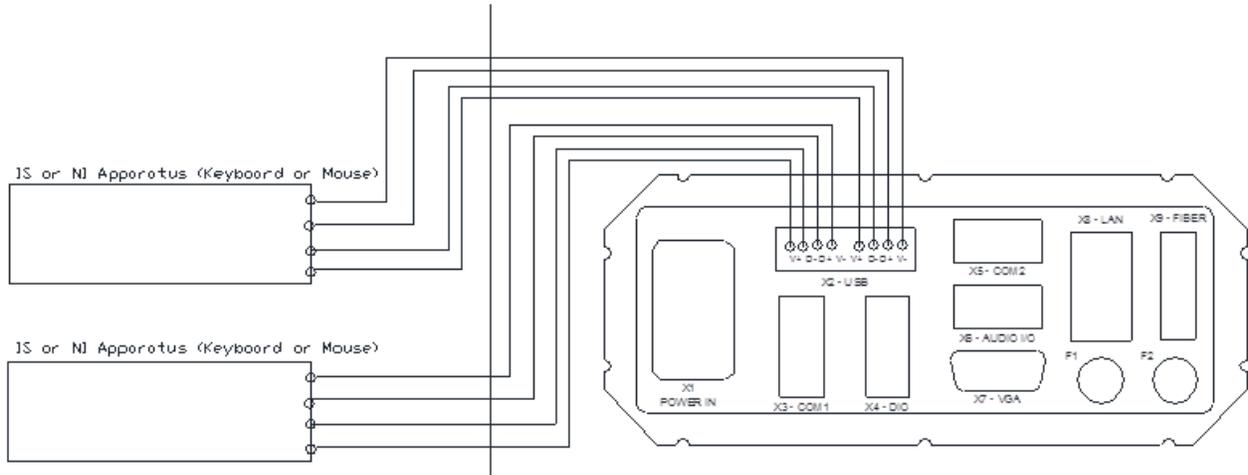


USB ports: IS and NI

Connections

HAZARDOUS LOCATION
 Class I Division 2, Groups A, B, C, D
 Zone 2 IIC

NON-HAZARDOUS LOCATION or
 Class I, Division 2, Groups A, B, C, D
 Zone 2 IIC



Junction Box (interior)

Note: For Apparatus connections details, see **Detail A**.

Entity Parameters (per channel)

Marking for models with IS / Non-Incendive USB Ports (rear).

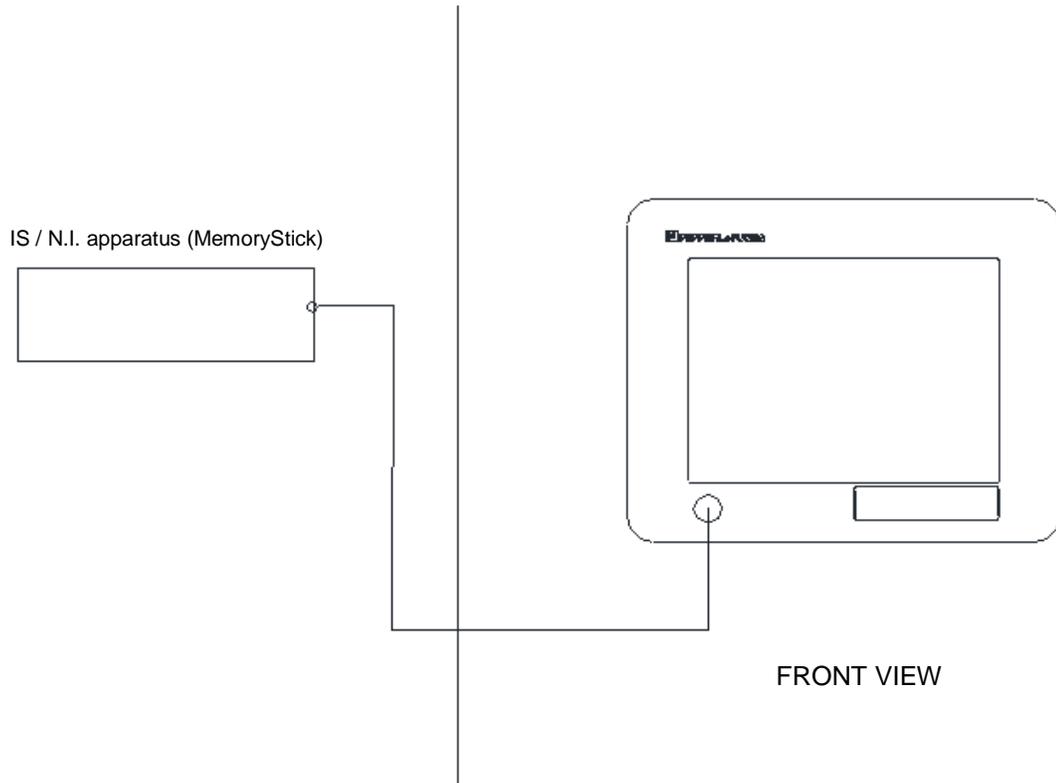
Model Number	Notes	P _o (mW)	U _m (V)	U _o (V)	I _o (mA)	C _o (μF)	L _o (μH)
PC971YR-YY-YYC-XTYYFYYY-SY-U1	"Y" may be any number or character.	567	30 (SELV)	4.92	183	52	800
RM971YR-YY-YYC-XTYYFYYY-SY-U1	"Y" may be any number or character.	567	30 (SELV)	4.92	183	52	800

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 Global	Control Drawing: USB Ports, IS and NI VISUNET XT 9700 Series	116-B017B
		Sheet 1 of 3

USB ports: IS and NI

HAZARDOUS LOCATION
 Class I Division 2, Groups A, B, C, D
 Zone 2 IIC

NON-HAZARDOUS LOCATION
 Or
 Class I, Division 2, Groups A, B, C, D
 Zone 2 IIC



Entity Parameters

Marking for models with IS / Non-Incendive USB Port (front)

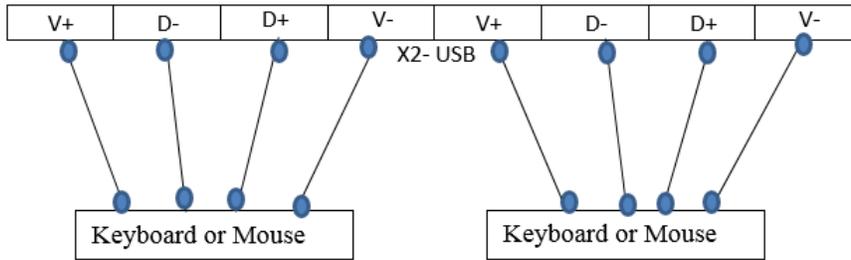
Model Number	Notes	V _{oc} (V)	U _m , (V)	U _o , (V)	I _o , (mA)	C _o , (μF)		L _o , (μH)
						Group IIB	Group IIC	
PC971YR-YY-YYC-XTYBFYYY-SY-YY	"Y" may be any number or character.	5.0	30 (SELV)	5.0	240	60	12	24
RM971YR-YY-YYC-XTYDFYYY-SY-YY	"Y" may be any number or character.	5.0	30 (SELV)	5.0	240	60	12	24

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	Control Drawing: USB Ports, IS and NI	116-B017B
	VISUNET XT 9700 Series	Sheet 2 of 3
Global		

USB ports: IS and NI

Detail A

X2 Terminal—USB



Notes

1. The Entity Concept allows interconnection of non-incendive apparatus with associated apparatus not specifically examined in combination as a system when the approved values of V_{oc} (or U_o) and I_{sc} (or I_o) for the associated apparatus are less than or equal to $V_{max}(U_i)$ and $I_{max}(I_i)$ for the non-incendive apparatus and the approved values of $C_a(C_o)$ and $L_a(L_o)$ for the associated apparatus are greater than $C_i + C_{cable}$ and $L_i + L_{cable}$, respectively, for the intrinsically safe apparatus,
 Where $C_{cable} = 60\text{pF/ft}$ if unknown
 Where $L_{cable} = 0.20\text{uH/ft}$ if unknown
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 V, 100mA, 25mW, or is a passive component that does not dissipate more than 1.3W and is compatible with the intrinsic safety of the circuit in which it is used.
3. Wiring methods must be in accordance with all applicable installation requirements of the country in use. For US, this is NFPA 70 (NEC) article 504 with additional information in ANSI-ISA –RP12.06.01. For Canada this is CSA 22.1-12 (CEC) section 18 and appendix F.
4. Warning: Substitution of components may impair intrinsic safety and suitability for Division 2 (classified) locations. ADVERTISEMENT: La substitution de composants peut compromettre emplacements de Division 2.
5. Warning: Do not energize or disconnect the device while area is known to be hazardous.
6. The associated non-incendive field wiring apparatus shall not be connected in parallel unless permitted by the associated non-incendive apparatus approval.
7. The IS \ Non-Incendive USB ports on the rear of the **VISUNET XT 9700 Series** are suitable for use in the following Hazardous (Classified) Locations:
 - Class I, Division 2, Groups A, B, C, D and provides non-incendive field wiring to apparatus in Class I, Division 2, Groups A, B, C, D.
 - AEx (US) Zone 2 IIC, Level ic
 - Ex (Canada) Zone 2 IIC, Level ic
 - ATEX Zone 2 IIC, Level ic
 - IECEx Zone 2 IIC, Level ic

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	Control Drawing: USB Ports, IS and NI	116-B017B
	VISUNET XT 9700 Series	Sheet 3 of 3
Global		