



Installation Notes RIT 261



- 1.) CSA certified apparatus must be installed in accordance with manufacturer's instructions.
- 2.) CSA certified associated apparatus must meet the following requirements:
 U_o or $V_{oc} \leq U_i$ or V_{max} I_o or $I_{sc} \leq I_i$ or I_{max} $P_o \leq P_i$
 C_a or $C_o \geq C_i + C_{cable}$ L_a or $L_o \geq L_i + L_{cable}$
 If the associated device does not have a power rating only linear output devices shall be used (i.e. passive shunt diode barriers) providing that all the other entity parameters satisfy the intrinsic safety equations.
- 3.) Programming in hazardous location is permitted.
- 4.) The installation must be in accordance with the Canadian Electrical Code.
- 5.) Ensure that the RIT 261 Enclosure is at the same potential as barrier ground.
- 6.) Use supply wires suitable for 5°C above surrounding.
- 7.) For Division 2 installations - Do not disconnect equipment unless power has been switched off or area is known to be non-hazardous.
- 8.) Terminals 3 to 6 provide Intrinsically safe and Non- incendive circuits to RTD, Thermocouples, and other passive resistive devices.
- 9.) Warning – Substitution of components may impair intrinsic safety or Class I, Division 2 Installations.

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Edge of working parts ISO 13715 		Geometrical Tolerancing ISO 2768-mH-E		Series	Scale	Volume: [mm ³]
					Material ZD 020R/09/en/10.02	Ident.-No. 510 05382
		Date		Name	Title CONTROL DRAWING CSA RIT 261	
		Drawn	2002-05-21	Pfanzelt		
		Check	2002-05-21	Pfanzelt		
		Norm				
		Sheet size A4				
		Repl. for:				
Index		Revision	Date	Name	Drawing No.	
Part:		ENDRESS+HAUSER WETZER		02 09 00 112		Sheet 1
						Of 2

RIT 261	INTRINSICALLY SAFE Ex ia IIC T6 Class I; Zone 0; Ex ia IIC T6 Class I; Division 1; Groups ABCD; T6 Class I; Division 2; Groups ABCD /T6
Supply circuit (Terminal 1 and 2)	V _{max} or U _i ≤ 30 VDC I _{max} or I _i ≤ 100 mA P _i ≤ 750 mW C _i = 0 L _i = 0

Optional Sensor circuit

TMT 181 (Terminal 3 until 6)	V _{oc} or U _o ≤ 8.2 VDC I _{sc} or I _o ≤ 4.6 mA P _o ≤ 9.35 mW
Max. Connecting Values Group A, B Ex ia IIC Group C Ex ia IIB Group D Ex ia IIA	La = Lo = 4.5 mH Ca = Co = 974 nF La = Lo = 8.5 mH Ca = Co = 1900nF La = Lo = 8.5 mH Ca = Co = 1900µF
TMT 182 (Terminal 3 until 6)	V _{oc} or U _o ≤ 6.0 VDC I _{sc} or I _o ≤ 2.5 mA P _o ≤ 3.75 mW
Max. Connecting Values Group A, B Ex ia IIC Group C Ex ia IIB Group D Ex ia IIA	La = Lo = 100 mH Ca = Co = 40 µF La = Lo = 100 mH Ca = Co = 1000 µF La = Lo = 100 mH Ca = Co = 1000 µF
Temperature range	T6: Ta = -20°C ... +60°C

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Part:				Of 2		