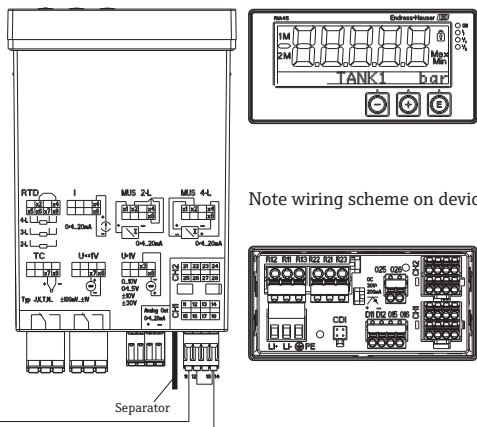


Nonhazardous Locations



Note wiring scheme on device!

CSA approved intrinsically
safe apparatus

Rating of enclosure at least NEMA 4X or Type 4X
when installed in Divison 2

Temperature range

Ta -20°C ... +60°C

ASSOCIATED INTRINSICALLY SAFE

Class I, Zone 0 [Ex ia] IIC
Class I, Zone 2 Ex nA[ia] IIC

ASSOCIATED NONINCENDIVE

Class I / Div. 2 / Groups ABCD

T4 -20°C ... +60°C

Installation Notes RIA45



- CSA Approved Apparatus must be installed in accordance with manufacturer's instructions.
- Depending on location install per National Electrical Code (CEC) using wiring methods.
- Use supply wires suitable for 5°C above surroundings.
- For Non-hazardous area install the device of Protection Ratings of least NEMA 1, Type 1
- For hazardous area Class I, II install the device of Protection Ratings of least NEMA 4X, Type 4X.
- For Class II keep tight when circuits alive.
- The unit is installed in Class I, Division 2 area with two I.S. output channels (1 & 2), with cables clearance of 2 mm minimum.
- Warning: Substitution of components may impair suitability for Class I, Division 2.

INTRINSICALLY SAFE

Class I / Zone 0 [Ex ia] IIC

- The device is an Associated intrinsically safe equipment and must be installed in Division 2 or non-hazardous Locations only.
- Installation should be in accordance with the Canadian Electrical Code (CEC).
- For entity installations use certified equipment that satisfy the following condition

$$U_o/V_o \leq V_{max}/U_i \quad I_o/I_{sc} \leq I_{max}/I_i \quad P_o \leq P_i \quad C_o/C_a \geq C_i + C_{cable} \quad L_o/L_a \geq L_i + L_{cable}$$
- The Terminal of the intrinsically safe circuit must be placed at least a distance of 50mm from terminals of the non intrinsically safe circuits, or adequate separators (e.g. ground metal partitions) must be used.

NONINCENDIVE Field WIRING INSTALLATION **Class I / Div. 2 / Groups ABCD**

- The device is an Associated Nonincendive safe equipment and must be installed in Division 2 or non-hazardous Locations only.
- The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when $V_{oc} \leq V_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.
- For entry installations use certified equipment that satisfy the following condition

$$U_o/V_{oc} \leq V_{max}/U_i \quad I_o/I_{sc} \leq I_{max}/I_i \quad P_o \leq P_i \quad C_o/C_a \geq C_i + C_{cable} \quad L_o/L_a \geq L_i + L_{cable}$$

	Approved Pfanzelt	Date (yyyy-mm-dd) 2009-05-12	Drawing No. 12 03 00 112	Dwg.rev. A	Revision no. W10618	Revision date (yyyy-mm-dd) 2010-06-08	Name MP	Material 71540267 XA02311R/09/EN/01.20	Endress+Hauser 	
Volume (mm³)	Designed Pfanzelt	Date (yyyy-mm-dd) 2009-05-11	Unit RIA45	Scale 1:1	Title CONTROL DRAWING CSA AIS			Serie		
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4				Objekt version		Sheet 1 of 2

