**Hazardous (Classified) Locations**
- Class I, Division 2, Groups ABCD
- Class I, Zone 0, Group IIC

**Non-hazardous area**
- Class I, Zone 2, Group IIC

**Temperature range**
- \( T_a = -20 \, ^\circ C \ldots +60 \, ^\circ C \)

**ASSOCIATED NONINCENDIVE**
- Class I, Division 2, Groups ABCD

**ASSOCIATED INTRINSICALLY SAFE**
- Class I, Zone 0 [Ex ia] IIC
- Class I, Zone 2 Ex na[ia] IIC

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**Transmission from Non-hazardous to Hazardous (classified) area:**

Supply (Terminals 1+H, 2+, 3- and optionally 4+H, 5+, 6-):
- \( U_m \leq 30 \, VDC \) (loop powered)
- \( I_m \leq 100 \, mA \)

Output (Terminals 7 +8 - and optionally 9+, 10-):
- \( V_{max} \) or \( U_{i} \leq 30V \)
- \( I_{max} \) or \( I_{i} \leq 100mA \)
- \( P_{i} \leq 750mW \)

**Uo or Voc = 0 \quad Lo or Isc = 0**

**Installation Notes RB223**
- 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.
- 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 where hazardous area Class I 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:
  - \( U_o/V_{oc} \leq V_{max}/U_{i} \)
  - \( I_{o}/I_{sc} \leq I_{max}/I_{i} \)
  - \( P_{i} \leq 100mA \)
  - \( V_{max}/U_{i} \leq 30V \)
  - \( I_{o}/I_{sc} \leq I_{max}/I_{i} \)
  - \( P_{i} \leq 750mW \)
  - \( P_{i} \leq 100mA \)
- 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 of 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 \( V_{oc} \) or \( I_{sc} \) is less than 1.2 times the rated value.
- For entity installations use equipment that satisfy the following condition:
  - \( U_o/V_{oc} \leq V_{max}/U_{i} \)
  - \( I_{o}/I_{sc} \leq I_{max}/I_{i} \)
  - \( P_{i} \leq 100mA \)
  - \( V_{max}/U_{i} \leq 30V \)
  - \( I_{o}/I_{sc} \leq I_{max}/I_{i} \)
  - \( P_{i} \leq 750mW \)
  - \( P_{i} \leq 100mA \)
- Warning: Substitution of components may impair suitability for Class I, Division 2.