Hazardous (Classified) Locations
- Class I, Groups ABCD
- Class II, Groups EFG
- Class III
- Class I, Zone 0 Group IIC

Nonhazardous Locations
- ISO 16016
- Edge of working parts
- ISO 13715
- Geometrical tolerancing
- ISO 2768-mH-E

**Installation Notes RN221N**
- 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.
- Install the device of Protection Ratings of least IP20, NEMA 1, Type 1.
- The active Barrier must be connected to a suitable ground.

**INTRINSICALLY SAFE**
- The device is an Associated intrinsically safe equipment and must be installed only in non-hazardous locations.
- Installation should be in accordance with the Canadian Electrical Code (CEC).
- For entity installations use certified equipment that satisfy the following condition:
  - Uo/Voc ≤ Vmax/Ui
  - Io/Isc ≤ Ima/li
  - Co/Ca ≥ Cl + Cable
  - Lo/La ≥ Li + Lcable
- 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**
- The device is an Associated Nonincendive safe equipment and must be installed only in non-hazardous locations.
- 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
  - Uo/Voc ≤ Vmax, Ca ≥ Ci + Ccable,
  - Lo/La ≥ Li + Lcable.
- For entity installations use certified equipment that satisfy the following condition:
  - Uo/Voc ≤ Vmax/Ui
  - Io/Isc ≤ Ima/li
  - Co/Ca ≥ Cl + Ccable
  - Lo/La ≥ Li + Lcable.

**Temperature range**
- Ta -20°C ... +50°C

**ASSOCIATED INTRINSICALLY SAFE**
- Class I, II, III/ Div. 1+2 / Groups ABCDEFG
- Class I, Zone 0 [Ex ia] IIC

**ASSOCIATED NONINCENDIVE**
- Class I / Div. 2 / Groups ABCD

**Supply**
- L/L+ N/L 20 ... 250VDC/AC 50/60Hz
- Ground PE
- Output O+ O– 4 ... 20mA
- (HART Communication) OH

**Output (Terminals +1 and –1)**
- Uo or Voc = 27.3 V
- Io or Isc = 87.6 mA
- Po = 597 mW
- Group A, B resp. [Ex ia] IIC Co or Ca = 86 nF
  - Lo or La = 2.9 mH
- Group C resp. [Ex ia] IIIB Co or Ca = 681 nF
  - Lo or La = 9.9 mH
- Group D resp. [Ex ia] IIA Co or Ca = 2278 nF
  - Lo or La = 19.9 mH