Installation Notes RIA16

- CSA approved apparatus must be installed in accordance with manufacturer’s instructions.
- Use supply wires suitable for 5°C above surroundings.

DUST IGNITION PROOF  Class II, III / Div. 1 / Groups EFG
- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.

INTRINSICALLY SAFE  Class I / Div. 1 / Groups ABCD
- Installation should be in accordance with the Canadian Electrical Code (CEC).
- CSA Approved Associated Apparatus must meet the following parameters:
  - Uo ≤ Ui  io ≤ li  Po ≤ Pi  Ca ≥ Ci + Ccable  La ≥ Li + Lcable
  - display entity parameters are as follows:
    - Supply circuit (Terminals + and 1b)
      - Ui or Vmax ≤ 30 V DC  Ci = 15.2 nF
      - li or Imax ≤ 100 mA  Li = 0
      - Pi ≤ 750 mW
    - Open Collector (Terminals 2 and 3)
      - Ui or Vmax ≤ 30 V DC  Ci = 0
      - li or Imax ≤ 100 mA  Li = 0
      - Pi ≤ 375 mW
  - Warning: Substitution of components may impair intrinsic safety.

Temperature range

T4  -40°C ... +85°C
T5  -40°C ... +60°C
T6  -40°C ... +50°C
### Installation Notes RIA16

- CSA approved apparatus must be installed in accordance with manufacturer’s instructions.
- Installation must be in accordance with Canadian Electrical Code (CEC) Section 18.
- Use supply wires suitable for 5°C above surroundings.
- The device for Class I, Zone 2, Ex nA IIC is suitable for installation in Class I, Division 2, Groups A, B, C, D per CEC Section 18-000 Subrule (5).
- Warning: Substitution of components may impair suitability for Class I, Division 2.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.

### DUST IGNITION PROOF

Class II, III / Div. 1 / Groups EFG

- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.

### NONINCENDIVE

**Class I / Zone 2 / Ex nA IIC**

- Intrinsic safety barrier not required.

Supply circuit (Terminals + and 1b)

- Supply voltage ≤ 35 V DC
- Signal current: 4-20mA

Open Collector (Terminals 2 and 3)

- Supply voltage ≤ 35 V DC, max. 100mA

### NONINCENDIVE, FIELD WIRING

**Class I / Zone 2 / Ex nA IIC**

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 Voc ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.

Transmitter Nonincendive Field Wiring parameters are as follows:

Supply circuit (Terminals + and 1b)

- Vmax ≤ 35 V DC
- Ci = 15.2 nF, Li = 0
- Imax = see following note below
- Pmax = 1.75 W

Open Collector (Terminals 2 and 3)

- Vmax ≤ 35 V DC
- Ci = negligible small, Li = 0
- Imax ≤ see following note below
- Pmax ≤ 875mW

For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

### Temperature range

- **T4**: -40°C ... +80°C
- **T5**: -40°C ... +70°C
- **T6**: -40°C ... +55°C