**Installation Notes RIA16**

- FM Approved Apparatus must be installed in accordance with manufacturer’s instructions.
- Install per National Electrical Code (NFPA 70).
- Use supply wires suitable for 5°C above surroundings.
- Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.

**INTRINSICALLY SAFE IS**

Class I / Div. 1 / Groups ABCD

**NONINCENDIVE, FIELD WIRING NI**

Class I / Div. 2 / Groups ABCD

**Temperature range**

<table>
<thead>
<tr>
<th>T</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>T4</td>
<td>-40°C ... +85°C</td>
</tr>
<tr>
<td>T5</td>
<td>-40°C ... +60°C</td>
</tr>
<tr>
<td>T6</td>
<td>-40°C ... +50°C</td>
</tr>
</tbody>
</table>

**INTRINSICALLY SAFE IS**

Class I / Div. 1 / Groups ABCD

**NONINCENDIVE, FIELD WIRING NI**

Class I / Div. 2 / Groups ABCD

**Signal Input**

- Vmax (V)
- Imax (mA)
- Pi (W)
- Ci (mF)
- Li (mH)

**Active (+ and -)**

- Terminals: 30 100 750 12.5 0

**Passive (+ and -)**

- Terminals: 30 100 750 12.5 0

**Open Collector 2 and 3**

- Terminals: 30 100 375 0 0

**Warning:** Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.

**DUST IGNITION PROOF DIP**

Class II, III / Div. 1 / Groups EFG

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

**NONINCENDIVE**

Class I / Div. 2 / Groups ABCD

- Depending on location install per National Electrical Code (NEC) using wiring methods described in article 500 through article 510.
- Intrinsic safety barrier not required. Vmax ≤ 35 V DC.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
- Nonincendive field wiring installation:

  **The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations.**

  **Nonincendive Field Wiring parameters are as follows:**

  Active Configuration Connection requirements:

  - (+ and -) terminals
  - The RIA16 with respect to the supply device:
    - Vmax of RIA + Vmax of the Associated Nonincendive Field Wiring Apparatus
    - Imax of RIA + Imax of the Associated Nonincendive Field Wiring Apparatus
    - Pi of RIA + Pi of the Associated Nonincendive Field Wiring Apparatus
    - Ci of RIA + Ci of the Associated Nonincendive Field Wiring Apparatus
    - Li of RIA + Li of the Associated Nonincendive Field Wiring Apparatus

  Passive Configuration Connection requirements:

  - (+, 1, and -) terminals Associated Nonincendive Field Wiring Apparatus with respect to the Both Nonincendive Field Wiring Apparatus
  - Vmax ≤ 35 V DC
  - Imax ≤ 35 mA

  **Warning:** Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.

  **Field wiring installation:**

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

**Functional ratings**

These ratings do not supersede Hazardous Location values

Unom ≤ 35 V

Snom ≤ 100 mA