Hazardous (Classified) Location
Class I / Division 2 / Groups A B C D
Class I, Zone 2 (EPL Gc), IIC

Non-hazardous Locations

Any apparatus with supply voltage:
max. 36 V DC

Applicable requirements see CSA certificate 80107564

Installation Notes TMT31, F2058HRTD
- CSA approved apparatus must be installed in accordance with manufacturer’s instructions.
- Install per Canadian Electrical Code or National Electrical Code (NFPA 70).
- Use supply wires suitable for 5°C above surroundings.
- Terminal specification:

<table>
<thead>
<tr>
<th>Screw terminals</th>
<th>Push-in terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque Cable version</td>
<td>Torque Cable version</td>
</tr>
<tr>
<td>0.4Nm</td>
<td>0.2 to 1.5 mm² (24 to 16 AWG)</td>
</tr>
<tr>
<td>Solid or flexible</td>
<td>Solid or flexible</td>
</tr>
<tr>
<td>0.2 to 1.5 mm² (24 to 16 AWG)</td>
<td>Flexible with wire end ferrules</td>
</tr>
<tr>
<td>min. 7 mm (0.39 in)</td>
<td>with/without plastic ferrule</td>
</tr>
</tbody>
</table>

- WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.
- AVERTISSEMENT: RISQUE POTENTIEL DE DÉCHARGES ELECTROSTATIQUES – VOIR CONSIGNES.

Functional ratings
These ratings do not supersede Hazardous Location values
Unom ≤ 36 DC Inom ≤ 4 to 20 mA

Schedule of Limitations:
- Due to the risk of discharge, the non-metallic parts of the equipment and all non-metallic accessories have to be protected from electrostatic charging during installation and operation (e.g. only wipe with a damp cloth and do not expose to high voltage fields).
- The device may only be powered by a power supply unit with a limited energy electric circuit in accordance with CSA/UL/EN/IEC 61010-1:2010 chapter 6.3.1/6.3.2 and 9.4 or Class 2 according to CSA 223/UL 1310
- For use in the type of protection increased safety Ex ec. and for Zone 2 (EPL Gc), and Class I, Division 2 applications, the transmitter TMT31/F2058HRTD shall be installed completely inside an additional enclosure, providing a degree of protection of not less than IP54 according to CSA/UL 60079-0 and CSA/UL 60079-7. The ambient temperature within the end use enclosure shall not exceed the limits of the permissible ambient temperature range. Clearances, creepage distances, and separations as defined in CSA/UL 60079-7 must be considered for the installation.
- If the head transmitter TMT31/F2058HRTD, in type of protection increased safe and for use in Zone 2 (EPL Gc) and Class I, Division 2 applications, is mounted in an optional field housing the field housing must be equipped with suitable cable glands, certified according to CSA/UL 60079-0 and CSA/UL 60079-7, providing a degree of ingress protection of not less than IP54. This component has not been evaluated for process pressure and process temperature, or any other source of heating or cooling.
- WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

Ambient temperature range

<table>
<thead>
<tr>
<th>TCode guidance</th>
<th>135°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40 °C = Ta = +85 °C</td>
<td></td>
</tr>
<tr>
<td>-40 °C = Ta = +50 °C</td>
<td></td>
</tr>
<tr>
<td>-40 °C = Ta = +35 °C</td>
<td></td>
</tr>
</tbody>
</table>

- The factory programming 4-pins covered terminals (CDI-Connection) are not used during normal operations.

INCREASED SAFETY
Ex ec IIC Gc
Class I, Zone 2, AEx ec IIC
Class I, Division 2, Groups A, B, C, D

- Intrinsic safety barrier is not required. Vmax ≤ 36 V DC
- WARNING: EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUITS ARE LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.
- AVERTISSEMENT: RISQUE EXPLOSIF—NE JAMAIS BRANCHEZ OU DECONNECTEZ QUAND LES CIRCUITS INTERNES SONT SOUS TENSION À MOINS QUE LA ZONE SOIT PAS À RISQUES.

ISO 16016
ISO 13715
ISO 2768-mH-E

Edge of working parts
Geometrical tolerancing
Part No.
Format

CONTROL DRAWING CSA
Increased Safety

Endress + Hauser
Wetzlar GmbH + Co. KG
Nesselwang / Germany