CSI Model 9420 Rev4/Rev5 Wireless Vibration Transmitter:

Power Options:
- Battery Pack 701PBKKF (Part number MHM-89002) or A0701PBU (Part number MHM-89004)
- Power Adapter A9000Px - install per control drawing D25790.

NOTE: Approved power options may be replaced in approved hazardous locations per this drawing.

**CSA-c/us 12CA2493476X**
- Class I Division 1 Groups C & D
- Class I Zone 0 Group II B

**SIRA/ATEX 15ATEX4237X**
- II 3 G Ex ic IIC T4 Gc T4 (135°C), -40°C ≤ Ta ≤ 85°C, -20°C ≤ Ta ≤ 80°C w/LCD

**SIRA/ATEX 16ATEX2148X**
- II 1 G Ex ia IIB T4 Ga

**IECEx CSA 12.0014X**
- Ex ia IIB T4 Ga

**Warnings:**
1. The antenna may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.
2. The enclosure is made of an aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in a zone 0 environment.
3. Substitution of components may impair intrinsic safety.
4. The battery pack or power adapter may present a potential electrostatic ignition hazard. Use Caution when replacing battery pack or power adapter.
Sensor Connections

1 Sensor

- Terminal 1 = Red Wire
- Terminal 2 = White Wire
- Terminal 3 = No Connection
- Terminal 4 = Black Wire
- Chassis Ground Point = Cable Shield

2 Sensors

- Terminal 1 = Both Red Wires
- Terminal 2 = 1 White Wire
- Terminal 3 = 1 White Wire
- Terminal 4 = Both Black Wires
- Chassis Ground Point = Both Cable Shields

1 Sensor with Temperature

- Terminal 1 = Red Wire
- Terminal 2 = White Wire
- Terminal 3 = Green Wire
- Terminal 4 = Black Wire
- Chassis Ground Point = Cable Shield

Choose certified accelerometers such that the following conditions are met:

- \( U_o/V_o < U_i/V_{max} \)
- \( I_o/I_s < I_{i}/I_{max} \)
- \( C_o/C_a > C_i + \text{Cable} \)
- \( L_o/L_a > L_i + \text{Cable} \)

Notes:

1. Installation should be in accordance with the National Electrical Code (NEC), Canadian Electrical Code (CEC) or local codes as applicable.
2. Use only Emerson/Rosemount Power Module Model 701PBKKF, A0701PBU or Emerson Power Adapter A9000Px.
3. Use only Emerson/Rosemount Hart Communicator Model 375, 475 or TREX.
4. The enclosure may be opened to operate the push buttons, rotate the display or change the power module despite the following warning which appears on the cover, "IN EXPLOSIVE ATMOSPHERE KEEP TIGHT WHEN CIRCUIT ALIVE". This warning is present as it is required for other products which use the same enclosure.
5. The "Ex ia" marking on the nameplate indicates that the transmitter is Intrinsically Safe.

CSI 9420 Zone 0

Intrinsically safe when powered by Emerson Battery Pack Models 701PBKKF, A0701PBU or Emerson Power Adapter A9000Px and with the following entity parameters and when installed per Control Drawing D25418.

<table>
<thead>
<tr>
<th>Accelerometer Connector</th>
<th>Hart Connector</th>
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</thead>
<tbody>
<tr>
<td>( V_o/U_o = 7.8V )</td>
<td>( V_o/U_o = 7.8V )</td>
</tr>
<tr>
<td>( I_s/I_o = 158mA )</td>
<td>( I_s/I_o = 155mA )</td>
</tr>
<tr>
<td>( P_o = 309mW )</td>
<td>( P_o = 303mW )</td>
</tr>
<tr>
<td>( C_o/C_a = 2uF )</td>
<td>( C_o/C_a = 2uF )</td>
</tr>
<tr>
<td>( L_o/L_a = 3mH )</td>
<td>( L_o/L_a = 3mH )</td>
</tr>
</tbody>
</table>

Chassis Ground Point

Mounting Screw

Rear View
CSI 9420 Zone 2

Intrinsically safe when powered by Emerson Battery Pack Models 701PBKKF, A0701PBU or Emerson Power Adapter A9000Px and with the following entity parameters and when installed per Control Drawing D25418.

Sensor Connections

1 Sensor

Terminal 1 = Red Wire
Terminal 2 = White Wire
Terminal 3 = No Connection
Terminal 4 = Black Wire
Chassis Ground Point = Cable Shield

2 Sensors

Terminal 1 = Both Red Wires
Terminal 2 = 1 White Wire
Terminal 3 = 1 White Wire
Terminal 4 = Both Black Wires
Chassis Ground Point = Both Cable Shields

1 Sensor with Temperature

Terminal 1 = Red Wire
Terminal 2 = White Wire
Terminal 3 = Green Wire
Terminal 4 = Black Wire
Chassis Ground Point = Cable Shield

Choose certified accelerometers such that the following conditions are met:

- Uo/Voc < Ui/Vmax
- Io/Isc < li/Imax
- Po < Pi
- Co/Ca > Ci + Cable
- Lo/La > Li + Cable

Notes:
1. Installation should be in accordance with the National Electrical Code (NEC), Canadian Electrical Code (CEC) or local codes as applicable.
2. Use only Emerson/Rosemount Power Module Model 701PBKKF, A0701PBU or Emerson Power Adapter A9000Px.
3. Use only Emerson/Rosemount Hart Communicator Model 375, 475 or TREX.
4. The enclosure may be opened to operate the push buttons, rotate the display or change the power module despite the following warning which appears on the cover, "IN EXPLOSIVE ATMOSPHERE KEEP TIGHT WHEN CIRCUIT ALIVE". This warning is present as it is required for other products which use the same enclosure.
5. The "Ex ia" marking on the nameplate indicates that the transmitter is Intrinsically Safe.