**Non Hazardous Area**

**Host**

FF Non-Is Bus

FF Is Entity Bus

**Hazardous Area (Division 1, Zone 1)**

SC

Trunk

See Note 2, 3

SC

ROSEMOUNT 2230

ROSEMOUNT 2240S

ROSEMOUNT 3900

See Note 1

**5** For more information see system control drawing:

- 5900 9240040-917
- 2240S 9240040-910, 9240040-976
- 2230 9240040-949

**4** Requirement on power supply basic Ex code when connected to below devices and used in an entity system.

<table>
<thead>
<tr>
<th>Device Zone</th>
<th>CANEX</th>
<th>USA</th>
<th>CANADA</th>
</tr>
</thead>
<tbody>
<tr>
<td>5900 Ex[ia]</td>
<td>AIS CL I, DIV 1</td>
<td>AEX[ia]</td>
<td>AIS CL I, DIV 1</td>
</tr>
<tr>
<td>2240S Ex[ia]</td>
<td>AIS CL I, DIV 1</td>
<td>AEX[ia]</td>
<td>AIS CL I, DIV 1</td>
</tr>
<tr>
<td>2230 Ex[ia], Ex[ib]</td>
<td>AIS CL I, DIV 1</td>
<td>AEX[ia], AEX[ib]</td>
<td>AIS CL I, DIV 1</td>
</tr>
</tbody>
</table>

**IMPORTANT!**

- Always make a segment design to verify
- Segment max current consumption
- Segment min voltage supply to all devices
- Segment max cable length (Trunk + Spur)

**SC** = Segment Coupler

**T** = Terminator

**3** Verify min voltage supply to SC on trunk.

**2** If SC with spur short circuit protection is used, max current limit must be in accordance with the current consumption of the connected devices.

**1** There must be a termination on end of trunk. Use built in terminator or an external terminator.