

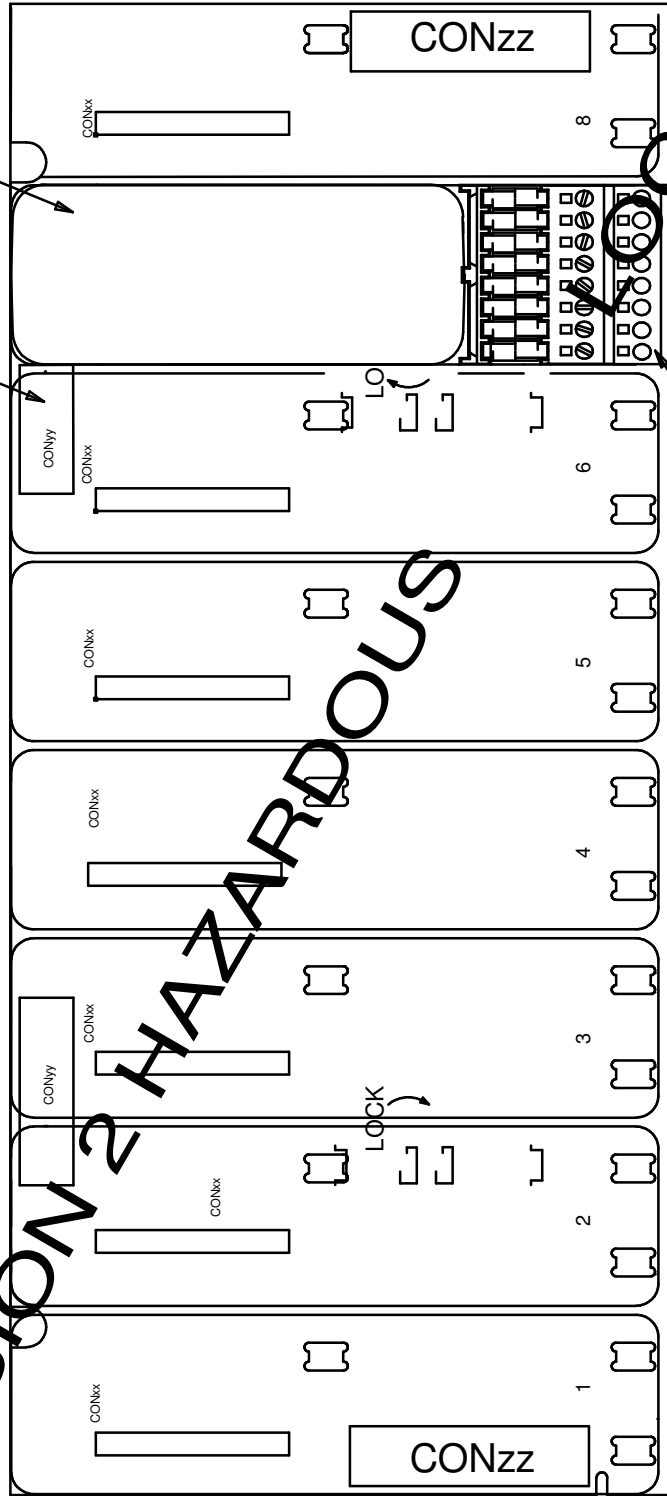
Installation drawing for the 8124-CO-08 4-Channel AI/4-Channel AO Module, 4-20mA

DIVISION 2 HAZARDOUS

LOCATION

8124-CO-08 I/O modules (max. 8 per carrier)

Bussted Field Power $\leq 24Vdc$



8601-FT-NI or 8603-FT-FU Field Terminals (one per I/O module)

Notes:

1. The 8124-CO-08 4-Channel AI/4-Channel AO Module, 4-20mA may only be mounted on a CSA-Certified 8000 Series carrier.
2. The 8124-CO-08 requires a supply of 24Vdc field power bussed through the carrier. This power must be derived from a CSA-certified power supply with an output voltage not exceeding 24V dc nominal, 30Vdc max. Other details for installation of this power supply are given on installation drawing SCI-702.
3. The 8124-CO-08 may be removed from and inserted onto the carrier whilst the Railbus power remains energised. However, Bussed Field Power must be de-energised unless the area is known to be non-hazardous.
4. The 8124-CO-08 must be installed in conjunction with either the 8601-FT-NI, or the 8603-FT-FU Field Terminal Assemblies.
5. Each pair of Field Terminals (1+2), (3+4), (5+6), (7+8), (9+10), (11+12), (13+14) and (15+16) comprises a channel, and each channel may be considered as having non-incendive field terminals for use with RTD's, Thermocouples, LEDs and passive-resistive switch devices.
- 6a. Alternatively, each channel may be considered non-incendive with the following parameters :-

$$V_{oc} \leq 28.7V_{dc} \quad I_{sc} \leq 33.0mA$$

$$\text{Groups A,B} \quad C_a = 0.17\mu F \quad L_a = 11mH$$

$$\text{Groups C} \quad C_a = 0.51\mu F \quad L_a = 33.0mH$$

$$\text{Groups D,F,G} \quad C_a = 1.36\mu F \quad L_a = 88.0mH$$

- 6b. Each channel of the 8124-CO-08 may be connected to CSA-approved apparatus which is suitable for use in Division 2 hazardous locations in accordance with the following criteria :-

$$V_{oc} \leq V_{max} \quad I_{sc} \leq I_{max}$$

$$C_a \geq C_i + C_{cable}$$

$$L_a \geq L_i + L_{cable}$$

7. The installation must be made in accordance with the Canadian Electrical Code Part 1.
8. WARNING - EXPLOSION HAZARD
Substitution of components may impair suitability for Class I, Division 2.
9. WARNING - EXPLOSION HAZARD
DO NOT DISCONNECT UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS, OR EXTERNAL FIELD POWER HAS BEEN SWITCHED OFF.