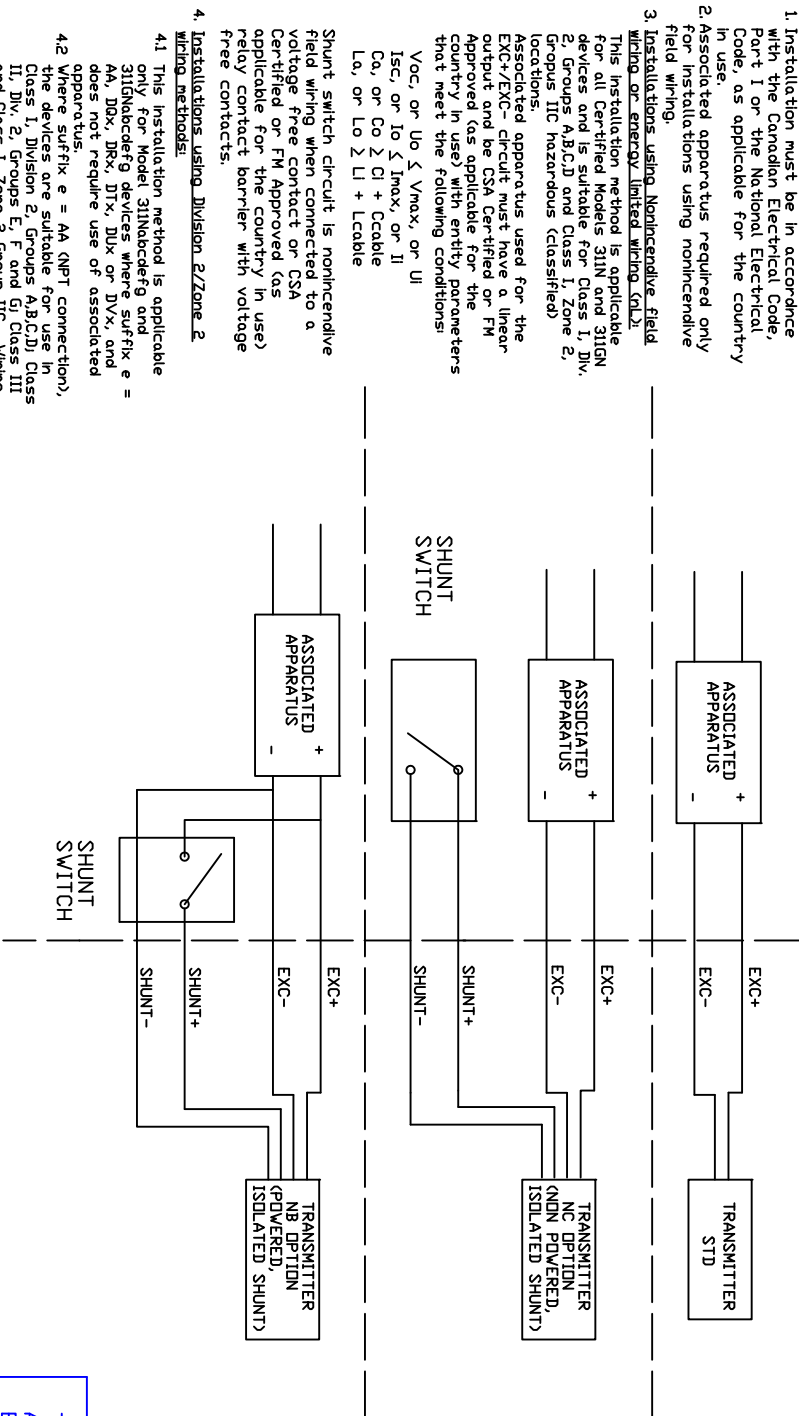


SAFE AREA

HAZARDOUS AREA



Class I, Zone 2, Group IIC  
 Class I Div/2 GRP A,B,C,D  
 Class II Div, 2, Groups E,F,G  
 Class III  
 \*refer to Notes for applicability)  
 ENTITY PARAMETERS  
 Vmax or UI = 28V  
 Imax or II = 100mA  
 CI = 27.2nF  
 LI = 0  
 Temp. code, TS at Ta = 80°C

THIS IS A CONTROLLED DRAWING  
 AND MAY NOT BE CHANGED WITHOUT  
 ENGINEERING AUTHORIZATION

1. Installation must be in accordance with the Canadian Electrical Code, Part I or the National Electrical Code, as applicable for the country in use.
2. Associated apparatus required only for installations using nonincendive field wiring.
3. Installations using Nonincendive field wiring or energy limited wiring shall:  
 This installation method is applicable for all Certified Models 311N and 311GN devices and is suitable for Class I, Div. 2, Groups A,B,C,D and Class I, Zone 2, Groupus IIC hazardous (classified) locations.  
 Associated apparatus used for the EXC+/EXC- circuit must have a linear output and be CSA Certified or FM Approved (as applicable for the country in use) with entity parameters that meet the following conditions:  
 $V_{oc}$ , or  $U_{o} \leq V_{max}$ , or  $U_I$   
 $I_{sc}$ , or  $I_o \leq I_{max}$ , or  $I_I$   
 $C_o$ , or  $C_o \geq C_I + C_{cable}$   
 $L_o$ , or  $L_o \geq L_I + L_{cable}$
4. Installations using Division 2/Zone 2 wiring methods:  
 4.1 This installation method is applicable only for Model 311Nabdcdrf and 311GNabdcdrf devices where suffix, e = Ah, Dlx, Dlx, Dlx, Dlx or Dlx, and does not require use of associated apparatus.  
 4.2 Where suffix e = AA (NPT connection), the devices are suitable for use in Class I, Division 2, Groups A,B,C,D) Class II, Div. 2, Groups E, F and G), Class III and Class I, Zone 2, Group IIC. Wiring to the NPT connector must use a suitable Division 2/Zone 2 wiring method as required per the Electrical Code of the country in use.  
 4.3 Where suffix, e = Dlx, Dlx, Dlx, Dlx or Dlx (Certified Division 2 connectors), the devices are suitable for use in Class I, Division 2, Groups A,B,C,D) and Class I, Zone 2, Group IIC. Wiring to the connector's must use cables certified for the location and for the country in use (not secured and compatible with Div 2/Zone 2 wiring), and must be installed per manufacturer's instructions.  
 4.4 Do not connect/disconnect circuits while the equipment is live, unless the area is known to be non-hazardous.

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |         | REVISIONS |        |  |
|---|---------|-----------|--------|--|
| LET   | DATE    | BY        | REASON |  |
| 1   | 2/12/09 | AN 463    |        |  |

FRACTIONS ± 1/64  
 DECIMALS: .XX ± 0.01  
 TOLERANCES: .XXX ± 0.005  
 ANGLES ± 1/2

83. MACHINE FINISH (ALL SURFACES)  
 REMOVE BURRS & BREAK SHARP EDGES  
 .015 MAX.  
 MACHINE FILETS TO .015 R MAX.  
 ALL DIAMETERS TO BE CONCENTRIC  
 WITHIN .010 T.I.R.  
 CHAMFER ALL M/M THREADS 45°±5°  
 CSINK 1/4" MIN. RADIUS 90°±10°  
 TO MAJOR DIAMETER

|                                   |          |                        |          |
|-----------------------------------|----------|------------------------|----------|
| GP-50 Aerospace Div.              |          | 2770 LONG ROAD         |          |
| CAGE CODE: 0N8Y7                  |          | GRAND ISLAND, NY 14072 |          |
| TEL. NO. (716)773-9300            |          | FAX NO. (716)773-5019  |          |
| SCALE                             | DRAWN/NA | MATERIAL               | DATE     |
| DESIGNER                          | REVIEW   | DATE                   | APPROVED |
| D/W                               | DATE     | DATE                   | DATE     |
| TITLE: FM/CSA Type n/Div 2/Zone 2 |          | DRAWING NO.            | REV.     |
| MODEL 311 N/GN                    |          | 8C1-65.01-2            |          |