

**Intrinsically safe (entity), Class I, Div. 1, Group A, B, C, D
Hazardous Location - Installations**

1. Control room equipment may not use or generate over 250 V
2. Install per the Canadian Electrical Code
3. Use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions: $V_{oc} \leq V_{max}$,
 $I_{sc} \leq I_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$
Barrier must be incapable of delivering more than 1 Watt to a matched load.
Transmitter entity parameters are as follows:
 $U_i/V_{max} = 30VDC$
 $I_i/I_{max} = 133mA$
 $C_i = C_{sensor} + C_{cable}$
 $L_i = L_{sensor} + L_{cable}$
 $P_{max} = 1W$

C_i and L_i shall be calculated depending on cable length (see table).

4. For system installation:

Use CSA certified safety barriers as follows!

- (a) 28V/300Ω + g round
- (b) 28V/300Ω + 28V/diode or
- (c) 28V/300Ω + 10V/50 Ω

5. Warning: Substitution of components may impair intrinsic safety

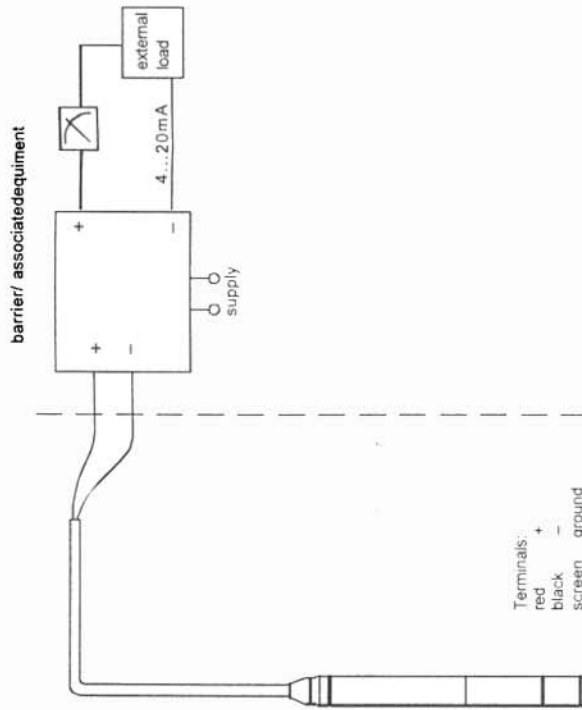
Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque

6. Intrinsic safety barrier manufacturer's installation drawing must be followed when installing this equipment: The configuration of the intrinsic safety barrier(s) must be CSA approved.

Non-hazardous location

Hazardous location

Class I, Div. 1, Groups A, B, C, D
Class I, Zone 0, Ex ia I CT6



Terminals:
red +
black -
screen ground

Table: Entity parameters
sensor:

$U_i/V_{max} = 30VDC$
 $I_i/I_{max} = 133mA$
 $P_i/P_{max} = 1W$
 $C_{i\ sensor} \leq 10nF$
 $L_{i\ sensor} = 0$

cable:

$C_{cable} = 180pF/m$
 $L_{cable} = 1\mu H/m$

Area of application:

The compact instruments are suitable for use in areas subject to explosion caused by gases, vapours or mists

ambient temperature range
-10°C...+70°C

