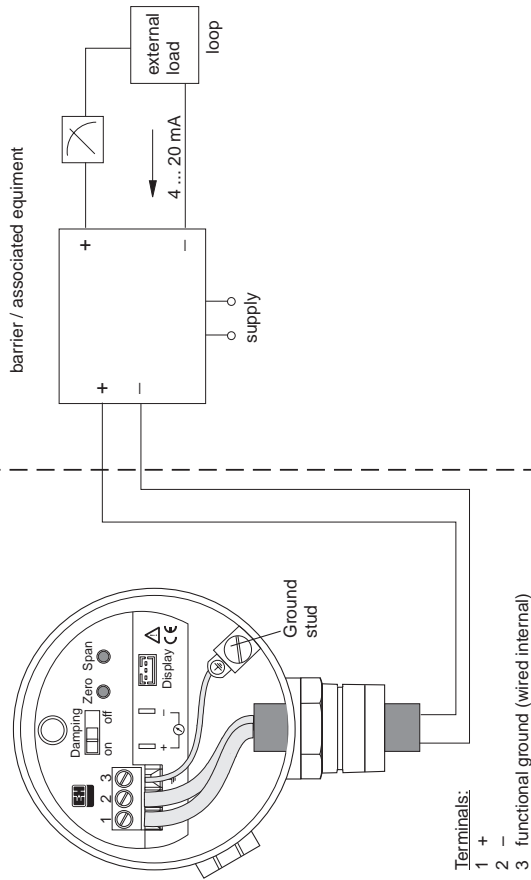


Non hazardous location

Hazardous location

Class I, Div.1, Groups A, B, C, D
Ex ia IIC T6
Class II, Div.1, Groups E, F, G
Class III



Terminals:
1 +
2 -
3 functional ground (wired internal)

Entity parameter:

U_i / V_{max} = 30 VDC
I_i / I_{max} = 100 mA
C_i ≤ 10 nF
L_i = 0

Table: Permissible ambient temperature, max. supply power and temperature code:

Temperature code	permissible ambient temperature electronic compartment
T6	-40 °C...40 °C
T4	-40 °C...70 °C

Intrinsically safe (Ex ia), Class I, Div.1, Groups A, B, C, D, Class II, Div.1, Groups E, F, G, Class III; Ex ia IIC T6 Hazardous Location Installations

Division 1 Installation:

- Control room equipment may not use or generate over 250 V.
- Install per the Canadian Electrical Code
- For entity installations: Use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions: $V_{oc} \leq V_{max}$, $I_{sc} \leq I_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.

Transmitter entity parameters are as follows: U_i / V_{max} = 30 VDC
I_i / I_{max} = 100 mA
C_i ≤ 10 nF
L_i = 0

4. For System Installation:

Use CSA certified safety barriers as follows:

- 28 V / 300 Ω + ground or
- 28 V / 300 Ω + 28 V / diode or
- 28 V / 300 Ω + 10 V / 50 Ω

- Warning: Substitution of components may impair intrinsic safety.
Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque
- 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.

- Use supply wires suitable for 5 °C above surrounding.
Utiliser des fils d'alimentation qui conviennent à une température de 5 °C au-dessus de la température ambiante.

- Note: Type of protection for PMC 45: Intrinsically safe (Ex ia), Class I, Div.1, Groups A, B, C, D, Class II, Div.1, Group G + Coal dust, Class III; Ex ia IIC T6

Suitable for Class I, Div.2, Groups A, B, C, D, Class II, Div.1, Groups E, F, G, Class III Hazardous Location Installation

- Install per Canadian Electrical Code using threaded metal conduit.
Intrinsic safety barrier not required.

Max. supply voltage 45 VDC.
For temperature code see table.

- Warning: Explosion Hazard. — Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.

Avertissement: Risque d'explosion - avant de déconnecter l'équipement, couper le courant ou s'assurer que l'emplacement est désigné non dangereux.

Warning: Open circuit before removing cover

Avertissement: Ouvrir le circuit avant d'enlever le couvercle

Warning: Substitution of components may impair suitability for Class I, Div. 2.

Avertissement: Risque d'explosion - la substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Class I, Div.2

- Note: Type of protection for PMC 45: suitable for Class I, Div. 2, Groups A, B, C, D

Agency controlled drawing.
No changes without prior agency approval

ZD 040P/00/en/05.99/EHF
CSA / A 21.12.98



Control drawing
960393-2035 A

Cerabar M PMC 41, 45
PMP 41, 45, 46, 48

Endress + Hauser

