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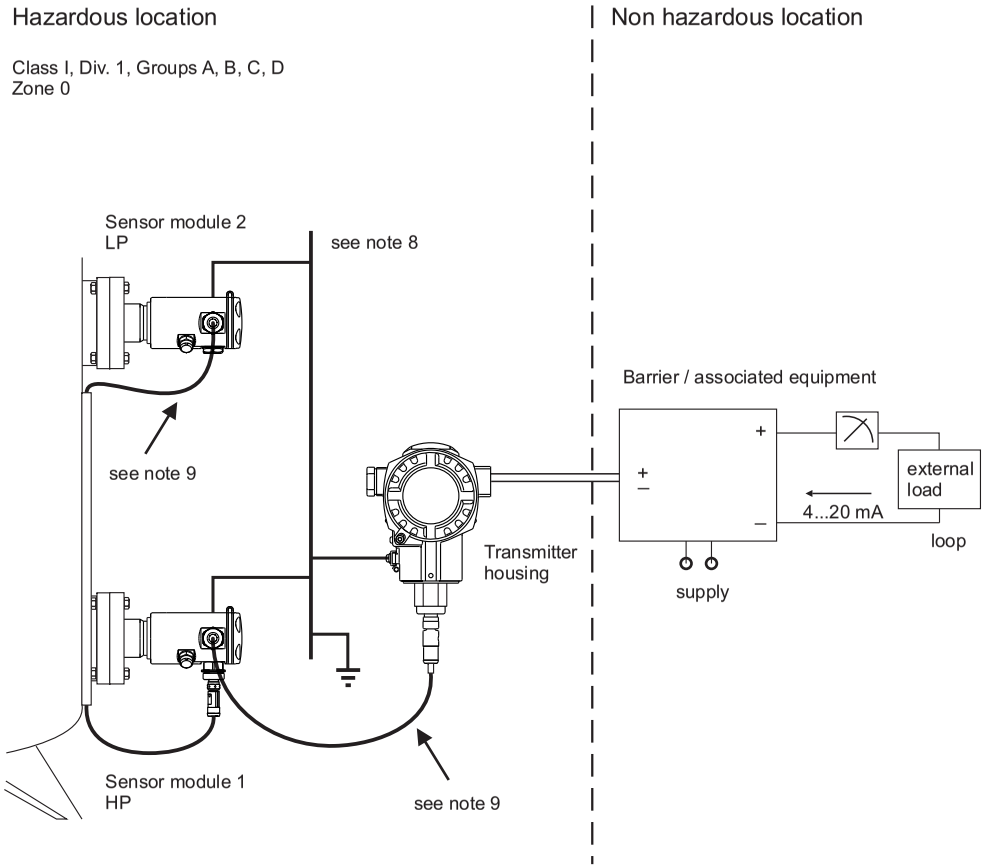
CCS/FM10
CSA/B 20.03.13

71230763

# CSA Control Drawing
# XA00626P-B

Deltabar FMD72
4-20 mA HART (IS)

Endress+Hauser
People for Process Automation




Entity parameter:

Ui / Vmax = 30 VDC
Ii / Imax = 300 mA
Pi / Pmax = 1 W
Ci ≤ 11.8 nF
Li = 0

Table: Permissible ambient temperature and temperature code

| Temperature code | Permissible ambient temperature, electronic compartment |
|---|---|
| T6 | –40 °C...40 °C |
| T4 | –40 °C...70 °C |

Intrinsically safe Ex ia for Class I, Div. 1, Groups A, B, C, D;
AEx/Ex ia IIC T6

Hazardous Location Installation

1. Control room equipment may not use or generate over 250 V.
2. Install per the Canadian Electrical Code, Part I or National Electrical Code (ANSI/NFPA70) as applicable.
3. For entity installations: Use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions: Voc ≤ Vmax, Isc ≤ Imax, Ca ≥ Ci + Ccable La ≥ Li + Lcable.
   Transmitter entity parameters are as follows: Ui / Vmax = 30 VDC
   Ii / Imax = 300 mA
   Pi / Pmax = 1 W
   Ci ≤ 11.8 nF
   Li = 0
   For T-code see table
4. For System Installation:
   Use: CSA certified safety barriers as follows:
   (a) 28 V / 300 Ω + ground or
   (b) 28 V / 300 Ω + 28 V / diode or
   (c) 28 V / 300 Ω + 10 V / 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.
7. Use supply wires suitable for 5 °C above surrounding.
   Utiliser des fils d'alimentation qui conviennent à une tempèrature de 5 °C au-dessus de la tempèrature ambiante.
8. Transmitter housing and sensor modules must have the same ground potential (e.g. transmitter housing and sensor modules all mounted to the same metal structure).
   If potential equalisation can not be achieved by the installation, the devices must be interconnected with a suitable bonding conductor using the external ground connections.
9. Transmitter provides Intrinsically Safe (type of protection 'ia') circuits for connection to and between HP Sensor module 1 and LP Sensor module 2.
10. Sensor modules may only be connected to the transmitter and interconnected to each other. Any further connections are not allowed.
11. Remark: Versions with optional terminal block with integrated overvoltage protection have an isolation voltage greater than 290 Vrms/420 VDC between terminal connection and potentially grounded metal parts.

The devices are CSA certified as Single Seal per ANSI/ISA 12.27.01 as tabulated below; therefore installation of external secondary seals is not required.

| **Single Seal** | **Model** | **Limited to:** | |
|---|---|---|---|
| | | **MWP*** | **Process temperature**** |
| | FMD72 | 40 bar (580 psi) | –40 °C...+100 °C |

* Limitations of the Maximum Working Pressure (MWP) are marked on the nameplate and must be considered!

** Limitations of the process temperature range depending on the used version are specified in the applicable technical information of the manufacturer and must be considered!