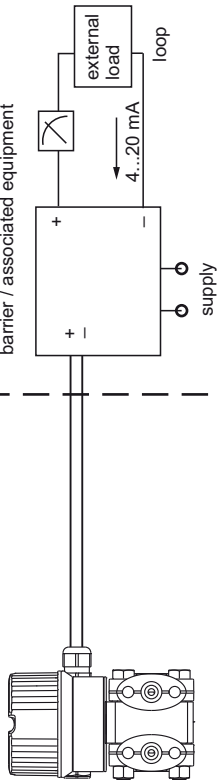


Hazardous location

Class I, Div. 1, Groups A, B, C, D
Zone 0
Class II, Div. 1, Groups E, F, G
Class III



Non hazardous location

Entity parameter:

U_i / V_{max} = 30 VDC
I_i / I_{max} = 300 mA
P_i / P_{max} = 1 W
C_i ≤ 10 nF
L_i = 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

option for Ta,min: -50 °C

This device is suitable to be installed in accordance with the wiring methods of Division 1/ Zone 0 resp. Zone 20 for intrinsic safety (as defined above) and for Division 1/ Zone 1 for explosionproof protection.

For installations in accordance with the requirements of explosionproof protection the device is suitable for:

Explosionproof for Cl.I Div.1 Gp. BCD
Factory sealed, Conduit seal is not required!

Max. supply voltage: 45 VDC
P ≤ 1.1 W

Ambient temperature range: -40 °C...+75 °C (optional Ta,min -50 °C)
Warning: Conductors shall be rated 10 °C above ambient.

Warning: Keep cover tight, while circuit is alive.
Warning: Changing the type of protection after first installation may impair the explosion protection.

Intrinsically safe Ex ia for Cl. I, Div. 1, Groups A, B, C, D, Cl. II, Div. 1, Groups E, F, G, Cl. III; Ex ia IIC T6
Hazardous Locations Installations

Division 1 Installation:

- Control room equipment may not use or generate over 250 V. Install per the Canadian Electrical Code or National Electrical Code (ANSI/NFPA70) and ISA RP 12.06.01.
- 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: U_i / V_{max} = 30 VDC
I_i / I_{max} = 300 mA
P_i / P_{max} = 1 W
C_i ≤ 10 nF
L_i = 0
for T-code see table

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

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 température de 5 °C au-dessus de la température ambiante.

8. Warning: Avoid electrostatic charging of plastic surfaces, plastic process connections or coatings.

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

Dual Seal	Model	Media	Annunciation method	Annunciation in case of primary seal failure	
				Pressure range for effective annunciation min	MWP*
PMD55		gas	audible	3.5 bar (50.7 psi)	160 bar (2320 psi)
		liquid	audible/visible	3.2 bar (46.4 psi)	

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

