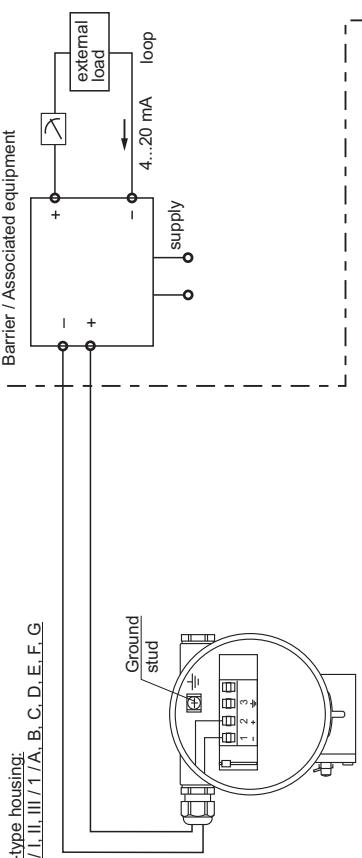


HAZARDOUS LOCATION

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

'F'-type housing:
IS I.II.III/1/A, B, C, D, E, F, G



NON HAZARDOUS LOCATION

Notes:
Intrinsically safe installation
Intrinsically Safe (Ex ia), Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G, Class III or Ex ia IIC Ga Hazardous Location Installation

- Control room equipment may not use or generate over 250V_{RMS}.
 - The installation must be in accordance with the Canadian Electrical Code (CEC).
 - Warning: Substitution of components may impair intrinsic safety.
Avertissement : La substitution de composants peut compromettre la sécurité intrinsèque.
 - For entity installation use CSA certified safety barrier or other associated equipment that satisfy the following conditions: with $U_{O}/V_{oc} \leq U_{I}/V_{max}$, $|I_O|/I_{Sc} \leq |I_I|/I_{max}$: $C_O/C_a \geq C_i + C_{cable}$, $L_O/L_a \geq L_i + L_{cable}$
- | U / V _{max} [V] | I _I max [mA] | P / P _{max} [W] | C _i [nF] | L _i [μH] |
|--------------------------|---------------------------|--------------------------|---------------------|---------------------|
| 30 | 300 | 1.0 | ≤ 13 | negligible |
- Caution: Use only supply wires suitable for 5K above surrounding temperature.
 - Utiliser des fils de l'alimentation qui conviennent à une température de 5 K au-dessus de la température ambiante.
 - Install barrier / associated apparatus in accordance with manufacturer's instructions.
 - The Prosonic M may be provided with an external connector which provides intrinsically safe circuits for connection to a CSA certified Endress+Hauser Remote Display, Type FHX40. The FHX40 is for use in Class I hazardous locations only and has a T-code of T5 at max. ambient 75 °C. Refer to safety instructions of the external display unit FHX40.
 - Internal CDI connector provides intrinsically safe circuits for connection to CSA certified Endress+Hauser Service Interface, type Commubox FXA193 with ToF-Cable from Endress+Hauser. FXA193 must be located in the non-hazardous area. Refer to safety instructions of the Commubox FXA193.
 - In case of FMU44 avoid electrostatic charge at the sensor (e.g. do not rub with dry cloth; do not install within the filling curtain).

For Class II and III, Div. 1:

Warning: Keep covers tight when explosive dust atmosphere is present.
Avertissement : Garder les couvercles bien fermés en présence d'une atmosphère poussiéreuse explosive.

Non-Intrinsically safe installation

Class I, Div. 2, Groups A, B, C, D and Class II and III, Div. 1, Groups E, F, G Hazardous Location Installation
1. Install per Canadian Electrical Code (CEC) using wiring methods described in the applicable Rules of Appendix J for the location of installation. Intrinsic safety barrier not required. Max. supply voltage 30V. For T-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 légerne non dangereux.
- Warning: Explosion hazard - Substitution of components may impair suitability for Class I, Div. 2.
Avertissement : Risque d'explosion - La substitution de composants peut rendre ce matériel incompatible pour les emplacements de Class I, Div. 2.
- The Prosonic M may be provided with an external connector which provides non-incendive field wiring circuits for connection to a CSA certified Endress+Hauser Remote Display, Type FHX40. The FHX40 is for use in Class I hazardous locations only and has a T-code of T5 at max. ambient 75 °C. Refer to safety instructions of the external display unit FHX40.
- Internal CDI connector provides non-incendive field wiring circuits for connection to CSA certified Endress+Hauser Service Interface, type Commubox FXA193 with ToF-Cable from Endress+Hauser. FXA193 must be located in the non-hazardous area. Refer to safety instructions of the Commubox FXA193.

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

Permissible ambient temperature:
Electronics: intrinsically safe, 'F'-type enclosure: -40...+80 °C (-40...+176 °F)
Sensors: (FMU40, FMU41, FMU42, FMU44): -40...+80 °C (-40...+176 °F)

Permissible process / ambient temperature and temperature code:

Temperature code of FMU40/41/42/44	Permissible medium temperature (range)	Permissible ambient temperature of electronics compartment (range)
T6	+60 °C	+60 °C
T5	+80 °C	+80 °C
T4	+80 °C	+80 °C

For Class II and III, Div. 1:
Warning: Keep covers tight when explosive dust atmosphere is present.
Avertissement : Garder les couvercles bien fermés en présence d'une atmosphère poussiéreuse explosive.

XAO1999F-E/00/EN/01.19
CCS/EM10
CSA/E 27.05.19



CSA Control Drawing 960006278 E

Prosonic M
FMU40, FMU41, FMU42, FMU44
HART
IS

Endress+Hauser

People for Process Automation