

HAZARDOUS LOCATION

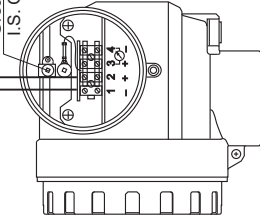
Class I, Div. 1, Groups A, B, C, D
 Ex ia/d [ia Ga] IIC Ga/Gb
 Housing: Class I, Zone 1
 Sensor: Class I, Zone 0
 Class II, Div. 1, Groups E, F, G
 Class III

T12 housing.

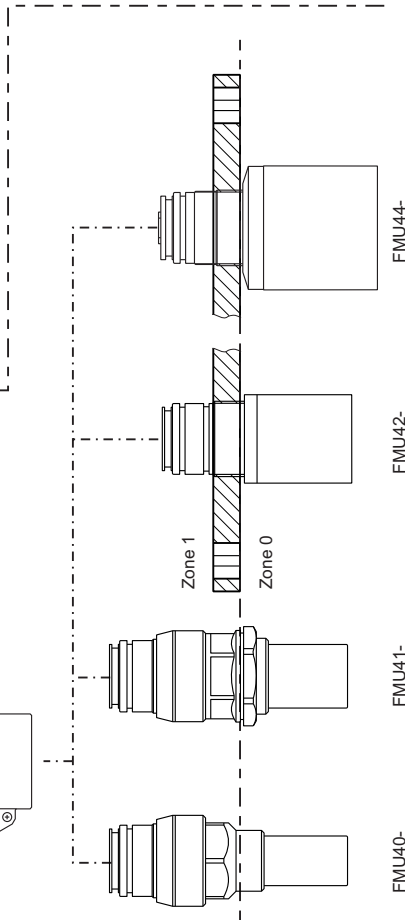
XP / I, II, III / 1, A, B, C, D, E, F, G

$U_{in} = 14...30\text{ V or }32\text{ V}$
 (see nameplate)

Ground stud (internal)



NON HAZARDOUS LOCATION



Notes:

Explosion-proof for Class I, Div. 1, Groups A, B, C, D and Class II, Div. 1, Groups E, F, G and Class III or Ex ia/db [ia Ga] IIC Ga/Gb Hazardous Location Installation

- Control room equipment may not use or generate over 250 V_{RMS}.
- The installation must be in accordance with the Canadian Electrical Code (CEC).
- Supply wires shall be installed in conduit in accordance with the CEC.
- Terminal compartment: Warning: Keep cover tight when circuits are alive unless the area is known to be non-hazardous.
- Use supply wires suitable for 5K above surrounding ambient.
- For electronics: maximum ambient temperature = 60 °C.
- Grounding stud shall be connected to a grounding electrode by 12 AWG wire or larger insulated conductors. Resistance between ground stud and grounding electrode shall be less than 1 Ω.
- Use a dust tight seal at the conduit entry in Class II and III location.
- 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.

Class I, Div. 2, Groups A, B, C, D Hazardous Location Installation

- 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 30 V. 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 désigné 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 inacceptable pour les emplacements de Class I, Div. 2.
- 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: T12 enclosure: -40...+60 °C (-40...+140 °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 (flange)	Permissible ambient temperature of electronics compartment as a function of medium temperature (sensor)
T6	+60 °C	+60 °C
T5	+80 °C	+60 °C
T4	+80 °C	+60 °C

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.

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 CCS/FM10
 CSA/D 29.05.19



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CSA Control Drawing
 960006280 D

Prosonic M
 FMU40, FMU41, FMU42, FMU44
 T12
 XP

Endress+Hauser
 People for Process Automation

