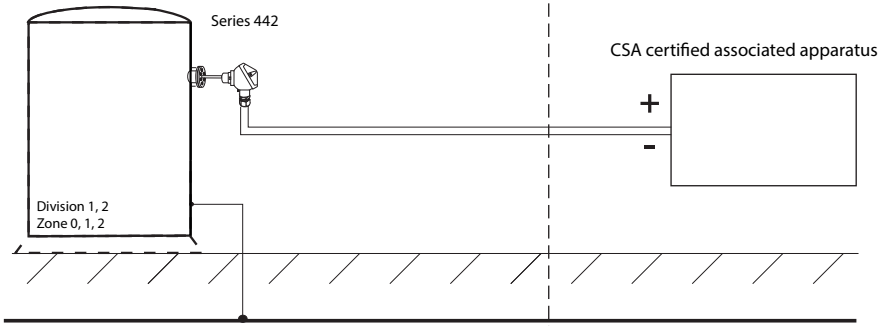
Hazardous (Classified) Location
Class I / Division 1 / Groups ABCD
Class I / Zone 0 / Ex ia IIC
Class I / Division 2 / Groups ABCD

Nonhazardous Locations



Temperature range

T4 -40 °C ... +85 °C
T5 -40 °C ... +70 °C
T6 -40 °C ... +55 °C

INTRINSICALLY SAFE **IS Class I / Div. 1 / Groups ABCD**
NONINCENDIVE, FIELD WIRING **NI Class I / Div. 2 / Groups ABCD**

Sensor circuits (Terminals 3…6)

Uo or Voc or Vt = 6.0 V	Io or Isc = 2.5 mA	Po = 3.75 mW
Group A, B resp. IIC	Co or Ca = 40 µF	Lo or La = 100 mH
Group C resp. IIB	Co or Ca = 1000 µF	Lo or La = 100 mH
Group D resp. IIA	Co or Ca = 1000 µF	Lo or La = 100 mH

Installation Notes Series 442

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Use supply wires suitable for 5 °C above surroundings.
- Stating that only simple apparatus should be terminated to the sensor connection. Simple apparatus is defined as a device that will neither generate nor store more than 1.2V, 0.1A, 0.25mW or 20µJ. Examples are Thermocouples or RTDs.

INTRINSICALLY SAFE **Class I / Div. 1 / Groups ABCD**

- Installation should be in accordance with the Canadian Electrical Code (CEC).
- CSA Approved Associated Apparatus must meet the following parameters:
  Uo ≤ Ui Io ≤ Ii Po ≤ Pi Ca ≥ Ci + Ccable La ≥ Li + Lcable
  Transmitter entity parameters are as follows:
  Ui or Vmax ≤ 30 V dc Ci = 0
  Ii or Imax ≤ 100 mA Li = 0
  Pi ≤ 750 mW
- Voc + Voc of Handheld device < Vmax, Isc + Isc of Handheld device < Imax, Po + Po of Handheld device < Pi, Ca > Ci + Ccable + Ci of Handheld device, La > Li + Lcable + Li of Handheld device, when Programming Handheld device is used.
- Warning: Substitution of components may impair intrinsic safety.

NONINCENDIVE **Class I / Div. 2 / Groups ABCD**

- Intrinsic safety barrier is not required. Vmax ≤ 35 V dc.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.
- Nonincendive field wiring installation
  The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when Voc ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
  Transmitter Nonincendive Field Wiring parameters are as follows:
  Ui or Vmax ≤ 30 V dc Ci = 0 Li = 0
  Ii or Imax = see following note below
  For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

Functional ratings
These ratings do not supersede Hazardous Location values
Unom ≤ 35 dc Inom ≤ (4 to 20) mA

TITLE:		PART NUMBER:	DATE:	
Series 442 CSA Control Drawing IS, NI			**11/05/2012**	
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pyromation inc beyond measure
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