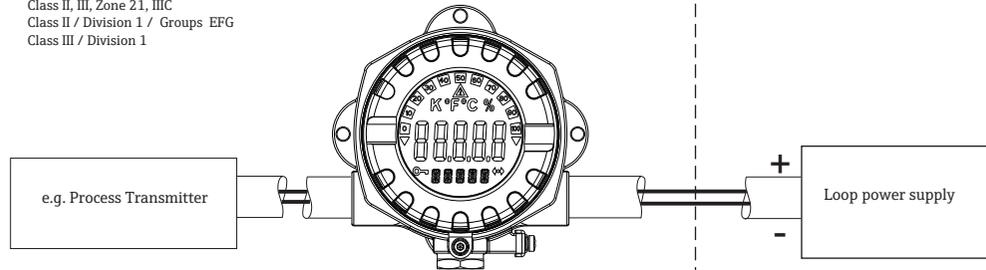
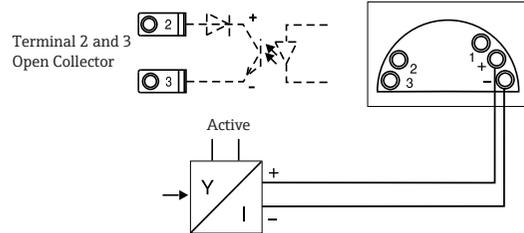


Hazardous (Classified) Location
 Class I / Division 1, 2 / Groups ABCD
 Class II, III, Zone 21, IIIC
 Class II / Division 1 / Groups EFG
 Class III / Division 1

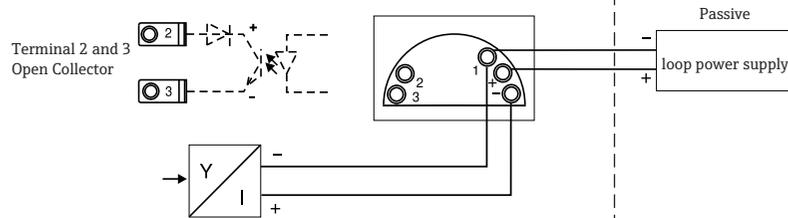
Nonhazardous Locations



see also installation notes for using power supply



Connecting a active current source
 e.g. a sensor with ist own power supply and active current output



Connecting a passive current source
 e.g. 2-wire transmitter with additional loop power supply

Temperature range

- T4 -40°C ... +80°C
- T5 -40°C ... +70°C
- T6 -40°C ... +55°C

Installation Notes RIA14

- CSA certified apparatus must be installed in accordance with manufacturer's instructions.
- Installation must be in accordance with Canadian Electrical Code.
- Use supply wires suitable for 5°C above surroundings.
- **WARNING: EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUITS ARE LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.**
- **AVERTISSEMENT: RISQUE EXPLOSIF- NE JAMAIS BRANCHEZ OU DECONNECTEZ QUAND LES CIRCUITS INTERNES SONT SOUS TENSION Á MOINS QUE LA ZONE SOIT PAS Á RISQUES**



DUST IGNITION PROOF

Class II, Div. 1, Groups E, F & G, Class III, Div. 1

EXPLOSION PROOF

Class I, Division 1, Groups A, B, C, D; T6...T4

- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.
- Seal all conduits within 18 inches of enclosure.
- All Conduits must be assembled with a minimum of five full threads engagement.
- Field display must be CSA approved for appropriate area classification.
- Supply circuit (Terminals + and 1) Open Collector (Terminals 2 and 3)
- Vmax ≤ 35 V DC Vmax ≤ 35 V DC
- Pmax = 1.75 W Pmax ≤ 875 mW

- Warning: Substitution of components may impair suitability for Class I, Division 2.
- Avertissement : La substitution de composants peut compromettre la sécurité intrinsèque
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
- Avertissement : Risque d'explosion - Ne pas débrancher tant que le circuit est sous tension, à moins qu'il s'agisse d'un emplacement non dangereux.

NONINCENDIVE

Ex ic IIC Gc T6...T4 Gc

Class I, Division 2, Groups A, B, C, D; T6...T4 (Non Incendive Field Wiring (NIFW))

- Intrinsic safety barrier is required. Vmax ≤ 35 V DC.
- Nonincendive field wiring installation
- The Nonincendive Field Wiring 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.

Field display Field Wiring parameters are as follows:

Supply circuit (Terminals + and 1b)

- Vmax ≤ 35 V DC Ci = 15.2 nF, Li = 0
- Imax see following note below
- Pmax = 1.75 W

Open Collector (Terminals 2 and 3)

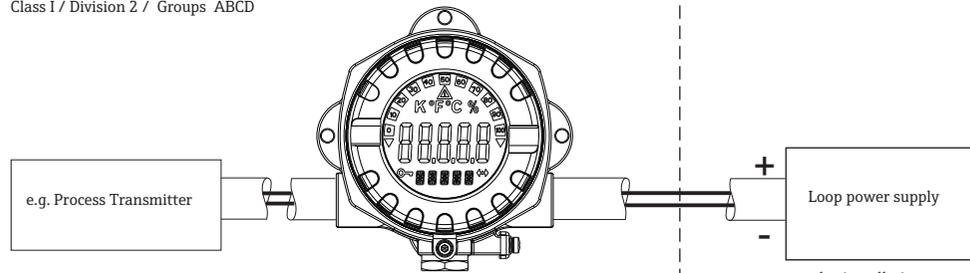
- Vmax ≤ 35 V DC Ci = negligible small, Li = 0
- Imax see following note below
- Pmax ≤ 875mW

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.

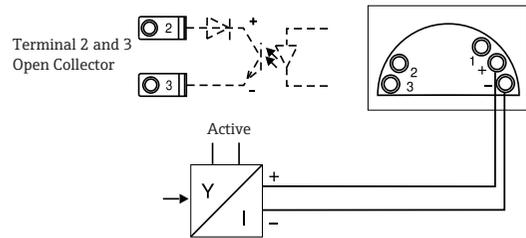
Author: Pfanzelt	Revision: A	Drawing No.: 12 07 00 114	Material: 71757127	Page 1 of 2
Date: 2008-12-08	Date: 2024-11-18	Title: Control drawing CSA Explosionproof	XA02309R/09/EN/02.26-00	

Hazardous (Classified) Location
Class I, Zone 2, IIC
Class I / Division 2 / Groups ABCD

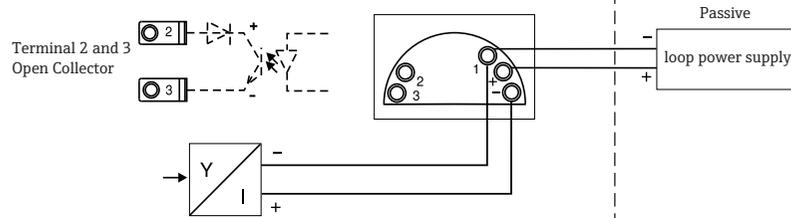
Nonhazardous Locations



see also installation notes for using power supply



Connecting a active current source
e.g. a sensor with ist own power supply and active current output



Connecting a passive current source
e.g. 2-wire transmitter with additional loop power supply

INCREASED SAFETY

Ex ec IIC T6...T4 Gc
Class I, Div. 2, Groups ABCD; T6...T4



- Intrinsic safety barrier is not required. $V_{max} \leq 35$ V DC.
- **WARNING: EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUITS ARE LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.**
- **AVERTISSEMENT: RISQUE EXPLOSIF- NE JAMAIS BRANCHEZ OU DECONNECTEZ QUAND LES CIRCUITS INTERNES SONT SOUS TENSION Á MOINS QUE LA ZONE SOIT PAS Á RISQUES.**

Terminal specification:

	Torque*	Cable version	Cable cross-section
Screw terminals	max. 1 Nm	Solid or flexible	= 2.5 mm ² (12 AWG) plus ferrules

*Do not overtighten the screw terminals, as this could damage the field display.

Functional ratings

These ratings do not supersede Hazardous Location values

$U_{nom} \leq 35$ DC $I_{nom} \leq 4$ to 20 mA

CONDITIONS OF ACCEPTABILITY

- For the use as an equipment in type of protection increased safety, and for Zone 2 (EPL Gc), and Class I, Division 2 applications, the field display RIA14 shall not be connected or disconnected unless the area is known to be non-hazardous.
- If the field display RIA14 was used in a Zone 2 (EPL Gc) or Class I, Division 2 application it is not allowed to use it in Zone 1 (EPL Gb), Zone 0 (EPL Ga) or Class I, Division 1 applications in the future.
- Final acceptance of this equipment when installed is subject to the jurisdiction of the local inspection authority.
- The end user shall ensure appropriate earthing of the metallic field housing upon installation.
- The equipment shall only be powered by limited energy circuits such as Class 2 SELV circuits.

Temperature range

T4 -40°C ... +80°C

T5 -40°C ... +70°C

T6 -40°C ... +55°C

Author:	Pfanzelt	Revision:	A	Drawing No.:	12 07 00 114	Material:	71757127	Page 2 of 2
Date:	2008-12-08	Date:	2024-11-18	Title:	Control drawing CSA Increased safety	XA02309R/09/EN/02.26-00		