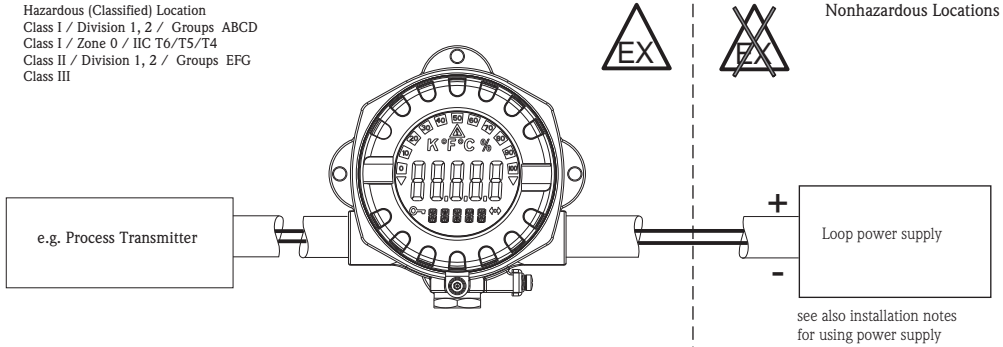
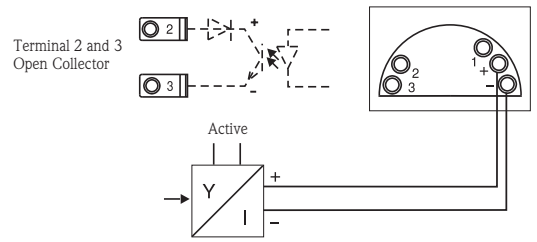
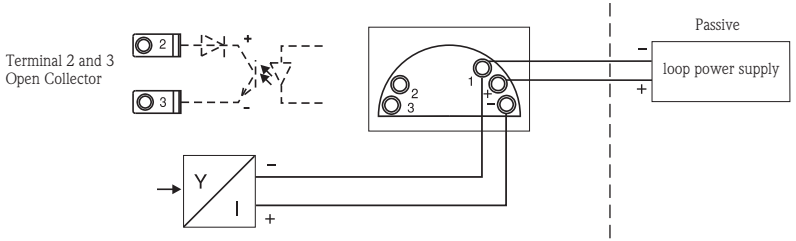
Hazardous (Classified) Location
Class I / Division 1, 2 / Groups ABCD
Class I / Zone 0 / IIC T6/T5/T4
Class II / Division 1, 2 / Groups EFG
Class III

Nonhazardous Locations





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 RIA 141

EXPLOSION PROOF Class I / Div. 1 / Groups ABCD
DUST IGNITION PROOF Class II,III / Div. 1 / Groups EFG

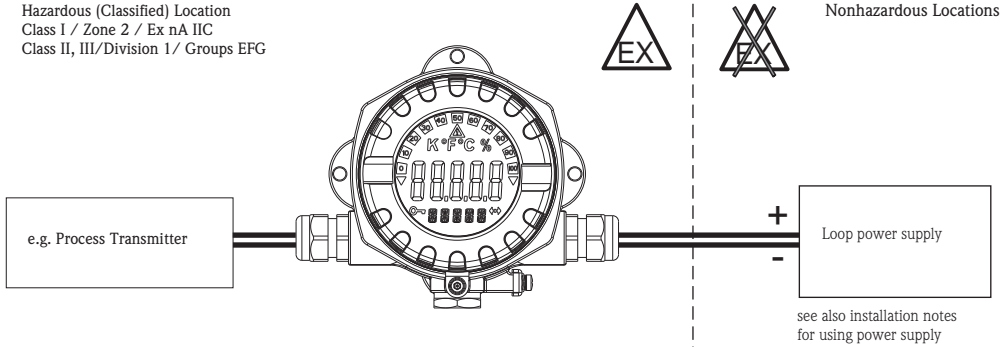
- CSA certified apparatus must be installed in accordance with manufacturer's instructions.
- Installation must be in accordance with Canadian Electrical Code.
- Use supply wires suitable for 5°C above surroundings.
- Conduit seal required at 18".
- All Conduits must be assembled with a minimum of five full threads engagement.
- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.
- Keep tight when circuits alive.
- Warning: Substitution of components may impair suitability for Class I, Division 2.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.
- Supply circuit (Terminals + and 1)
  Vmax ≤ 35 V DC
  Pmax = 1.75 W
- Open Collector (Terminals 2 and 3)
  Vmax ≤ 35 V DC
  Pmax ≤ 875 mW

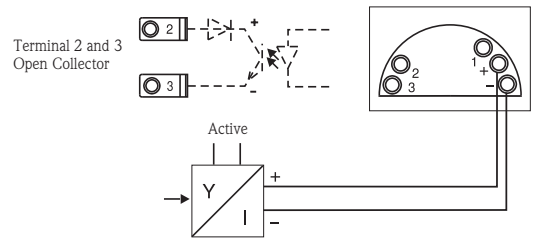
	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	
	Pfanzelt	2005-03-23	02 15 00 114					510 10645 ZD 041R/09/en/05.05	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title			Series	
	Pfanzelt	2005-03-24	RIA 141	1:1	CONTROL DRAWING CSA Explosionproof				
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4				Objekt version	Sheet 1 of 2

Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany

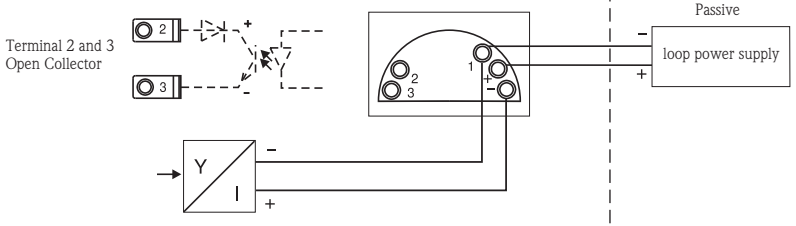
Hazardous (Classified) Location
Class I / Zone 2 / Ex nA IIC
Class II, III/Division 1/ Groups EFG

Nonhazardous Locations





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 RIA 141

- CSA certified apparatus must be installed in accordance with manufacturer's instructions.
- Installation must be in accordance with Canadian Electrical Code (CEC) Section 18.
- Use supply wires suitable for 5°C above surroundings.
- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.
- The device for Class I, Zone 2, Ex nA IIC is suitable for installation in Class I, Division 2, Groups A, B, C, D per CEC Section 18-000 Subrule (5).
- Warning: Substitution of components may impair suitability for Class I, Division 2.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.

NONINCENDIVE — Class I / Zone 2 / Ex nA IIC

- Intrinsic safety barrier not required.

Supply circuit (Terminals + and 1)
Supply voltage ≤ 35 V DC Signal current: 4-20mA
Open Collector (Terminals 2 and 3)
Supply voltage ≤ 35 V DC, max. 100mA

NONINCENDIVE, FIELD WIRING — Class I / Zone 2 / Ex nA IIC

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:
Supply circuit (Terminals + and 1)
Vmax ≤ 35 V DC Ci = 0, 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.

	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	
	Pfanzelt	2005-03-23	02 15 00 114					510 10645 ZD 041R/09/en/05.05	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title			Series	
	Pfanzelt	2005-03-24	RIA 141	1:1	CONTROL DRAWING CSA Nonincendive			Objekt version / Sheet: 2 of 2	
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4					Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany