

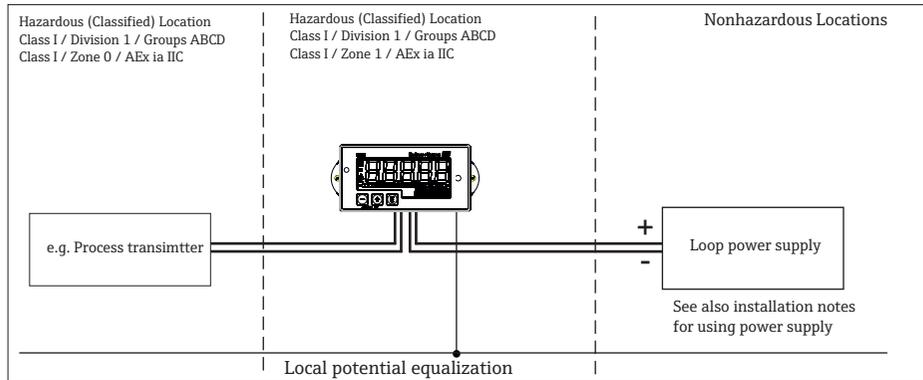
**Installation Notes RIA15**

- FM Approved Apparatus must be installed in accordance with manufacturer's instructions.
- Install per National Electrical Code (NFPA 70)
- Use supply wires suitable for 5°C above surroundings.
- Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.

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

- Installation should be in accordance with ANSI/ISA RP 12.6.01 "Installation of Intrinsically safe systems for Hazardous (classified) locations" and the National Electrical Code (ANSI/NFPA 70).
  - FM Approved Associated Apparatus must meet the following parameters:  
 $U_o \leq U_i$     $I_o \leq I_i$     $P_o \leq P_i$     $C_a \geq C_i + C_{cable}$     $L_a \geq L_i + L_{cable}$
- Process display entity parameters (terminals +/- or +/- LED or +/- auxiliary terminal □) are as follows:

$U_i \text{ or } V_{max} \leq 30 \text{ V DC}$     $C_i = 0$   
 $I_i \text{ or } I_{max} \leq 200 \text{ mA}$     $L_i = 35 \mu\text{H}$   
 $P_i \leq 900 \text{ mW}$



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

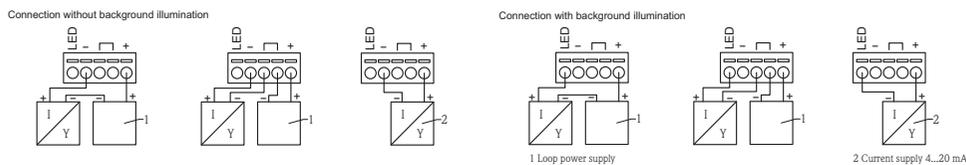
- Depending on location install per National Electrical Code (NEC) using wiring methods described in article 500 through article 510.
- Intrinsic safety barrier not required.  $V_{max} \leq 30 \text{ V DC}$ .

- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
- 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  $V_{oc} \leq V_{max}$ ,  $C_a \geq C_i + C_{cable}$ ,  $L_a \geq L_i + L_{cable}$ .

Transmitter Nonincendive Field Wiring parameters are as follows:

$U_i \text{ or } V_{max} \leq 30 \text{ V DC}$     $C_i = 0$     $L_i = 35 \mu\text{H}$   
 $I_i \text{ or } I_{max} = \text{see following note below}$

For these current controlled circuits, the parameter  $I_{max}$  is not required and need not to be aligned with parameter  $I_{sc}$  and  $I_t$  of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.



**Temperature range**

T6   -40°C ... +60°C

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

**Functional ratings**

These ratings do not supersede Hazardous Location values  
 $U_{nom} \leq 2.9 \text{ DC}$     $I_{nom} \leq 4 \text{ to } 20 \text{ mA}$

Approved	Pfanzelt	Date (yyyy-mm-dd)	2013-01-15	Drawing No.	10000005542	Dwg.rev.	A	Revision no.	W14433	Revision date (yyyy-mm-dd)	2014-03-19	Name	MP	Material	71286883	Endress+Hauser
Volume (mm³)	Designed	Pfanzelt	2013-01-14	Unit	RIA15, ORIA15	Scale	1:1	Title	CONTROL DRAWING FM		Series		Objekt version	Sheet	Endress + Hauser Wetzler GmbH+Co. KG Nesselwang / Germany	
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No.	-	-	Format	A4	XA01097K/09/EN/02.15		1 of 1						