

Installation Notes RIA15

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FM Approved Apparatus must be installed in accordance with manufacturer's instructions.
 Install per National Electrical Code (NFPA 70)

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- 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:
- $U_0 \le U_i$ $I_0 \le I_i$ $P_0 \le P_i$ $C_a \ge C_i + C_{cable}$ $L_a \ge L_i + L_{cable}$

Process display entity parameters (terminals +/ - or +/ LED or + / auxiliary terminal \Box) are as follows:

- $Pi \qquad \qquad \leq 900 \ mW$
- FM Approved Associated Apparatus needs to be approved for ia when there are connections to Zone 0 or when the product is installed in Division 1.

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. Vmax \leq 30 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 $Voc \leq Vmax$, $Ca \geq Ci + Ccable$, $La \geq Li + Lcable$.

Display's Nonincendive Field Wiring parameters are as follows:

Ui or Vmax \leq 30 V DC Ci = 0 Li = 35 μ H

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 ≤ 2.9 DC Inom ≤ 4 to 20 mA

,	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	
	Pfanzelt	2013-01-15	1000005542	C	-	2017-01-10	MP	71356531	Endress+Hauser 소네
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title				
	Pfanzelt	2013-01-14	RIA15, ORIA15	1:1	CONTRO	OL DRAWING	G FM	Series	
Refer to protection notice	Edge of working parts	Geometrical tolerancing	Part No.	Format A4	XA01097	'K/09/EN/03.	17	Objekt version Sheet	Endress + Hauser Wetzer GmbH+Co.KG Nesselwang/Germany
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