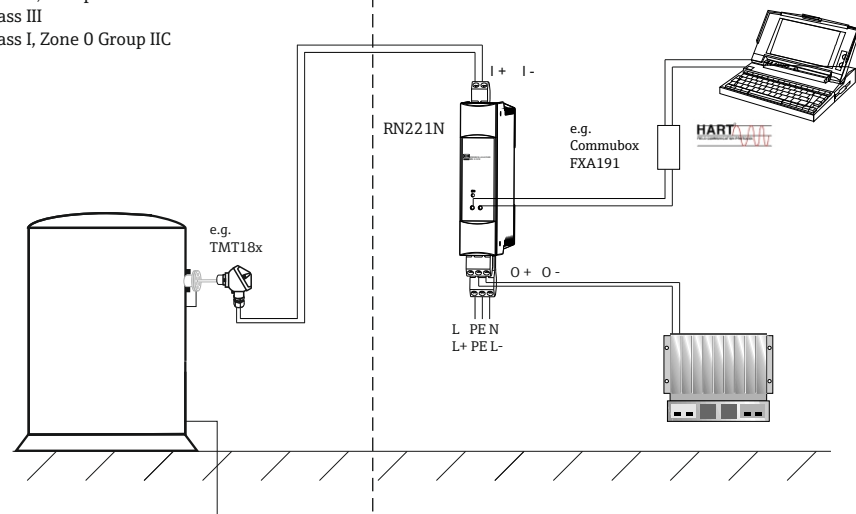


Hazardous (Classified) Locations
Class I, Groups ABCD
Class II, Groups EFG
Class III
Class I, Zone 0 Group IIC

Nonhazardous Locations



Temperature range

Ta -20°C ... +50°C

ASSOCIATED INTRINSICALLY SAFE

Class I, II, III/ Div. 1+2 / Groups ABCDEFG
Class I, Zone 0 [Ex ia] IIC

ASSOCIATED NONINCENDIVE

Class I / Div. 2 / Groups ABCD

Supply	L/L+	N/L	20 ... 250VDC/AC 50/60Hz
Ground PE			
Output	O+	O-	4 ... 20mA
(HART Communication)	OH		

Output (Terminals +I and -I)

Uo or Voc = 27.3 V	Io or Isc = 87.6 mA	Po = 597 mW
Group A, B resp. [Ex ia] IIC	Co or Ca = 86 nF	Lo or La = 2.9 mH
Group C resp. [Ex ia] IIB	Co or Ca = 681 nF	Lo or La = 9.9 mH
Group D resp. [Ex ia] IIA	Co or Ca = 2278 nF	Lo or La = 19.9 mH

Installation Notes RN221N



- CSA Approved Apparatus must be installed in accordance with manufacturer's instructions.
- Depending on location install per National Electrical Code (CEC) using wiring methods.
- Use supply wires suitable for 5°C above surroundings.
- Install the device of Protection Ratings of least IP20, NEMA 1, Type 1.
- The active Barrier must be connected to a suitable ground.

INTRINSICALLY SAFE

Class I / Groups ABCD

- The device is an Associated intrinsically safe equipment and must be installed only in non-hazardous locations.
- Installation should be in accordance with the Canadian Electrical Code (CEC).
- For entity installations use certified equipment that satisfy the following condition
 $U_o/V_o \leq V_{max}/U_i$ $I_o/I_{sc} \leq I_{max}/I_i$ $P_o \leq P_i$ $C_o/C_a \geq C_i + C_{cable}$ $L_o/L_a \geq L_i + L_{cable}$
- The Terminal of the intrinsically safe circuit must be placed at least a distance of 50mm from terminals of the non intrinsically safe circuits, or adequate separators (e.g. ground metal partitions) must be used.

NONINCENDIVE Field WIRING INSTALLATION

Class I / Div. 2 / Groups ABCD

- The device is an Associated Nonincendive safe equipment and must be installed only in non-hazardous locations.
- 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 $V_o \leq V_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.
- For entity installations use certified equipment that satisfy the following condition
 $U_o/V_o \leq V_{max}/U_i$ $I_o/I_{sc} \leq I_{max}/I_i$ $P_o \leq P_i$ $C_o/C_a \geq C_i + C_{cable}$ $L_o/L_a \geq L_i + L_{cable}$

	Approved Kellermann	Date (yyyy-mm-dd) 2001-12-14	Drawing No. 02 02 00 112	Dwg.rev. A	Revision no. -	Revision date (yyyy-mm-dd) 2005-01-07	Name MP	Material 71540233 XA02346R/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed Kellermann	Date (yyyy-mm-dd) 2001-12-14	Unit RN221N	Scale 1:1	Title CONTROL DRAWING CSA IS, NI			Series	
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4				Objekt version 1 of 1	Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany