

Temperature range

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-20°C ... +50°C

Class I, II, III, Div. 1+2, Groups ABCDEFG AIS

Cl. I, Zone 0 [AEx ia] IIC

ANI Class I. II. III. Div. 2. Groups ABCDEFG

N/L 20 ... 250VDC/AC 50/60Hz Supply

Ground PE

Output \bigcirc + \bigcirc 4 ... 20mA ОН

(HART Communication)

Output (Terminals +I and -I)

Uo or Voc = 27.3 VIn or Isc = 87.6 mAPo = 597 mW

Group A, B resp. [AEx ia] IIC Co or Ca = 86 nFLo or La = 2.9 mHLo or La = 9.9 mH[AEx ia] IIB Group C resp. Co or Ca = 681nFGroup D [AEx ia] IIA Co or Ca = 2278 nFLo or La = 19.9 mHresp.

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Installation Notes RN 221 N

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- FM Approved Apparatus must be installed in accordance with manufacturer's instructions.
- Depending on location install per National Electrical Code (NEC) using wiring methods described in article 500 through article 510.
- 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 CONNECTION TO

Class I, II, III / Div. 1+2 / Groups ABCDEFG

- The device is an Associated intrinsically safe equipment and must be installed only in nonhazardous locations.
- 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).
- For entity installations use certified equipment that satisfy the following condition $Uo/Voc \le Vmax/Ui$ $Io/Isc \le Imax/Ii$ $Po \le Pi$ $Co/Ca \ge Ci + Ccable$ $Lo/La \ge Li + Lcable$
- The Terminal of the intrinsically safe circuit must be placed at a distances of least 50mm from terminals of the non intrinsically safe circuits, or adequate separators (e.g. ground metal partitions) must be used.

NONINCENDIVE Field WIRING CONNNECTION TO Class I, II, III / Div. 2 / Groups ABCDEFG

- The device is an Associated Nonincendive safe equipment and must be installed only in nonhazardous 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 $Voc \le Vmax$, $Ca \ge Ci + Ccable$, $La \ge Li + Lcable$.
- For entity installations use certified equipment that satisfy the following condition Uo/Voc < Vmax/Ui Io/Isc < Imax/Ii $Co/Ca \ge Ci + Ccable \quad Lo/La \ge Li + Lcable$ Po < Pi

	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	51001934	
	Pfanzelt	2002-01-15	02 02 00 111	Α	K05502	2005-01-07	MP			Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title					
	Pfanzelt	2002-01-15	RN 221 N	1:1	CONTRO	L DRAWING FM		Serie	es	
Refer to protection notice	Edge of working parts	Geometrical tolerancing	Part No.	Format				Objekt version	Sheet	 Endress + Hauser Wetzer
ISO 16016	ISO 13715	ISO 2768-mH-E	-	A4					1 of 1	GmbH+Co. KG Nesselwang / Germany

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