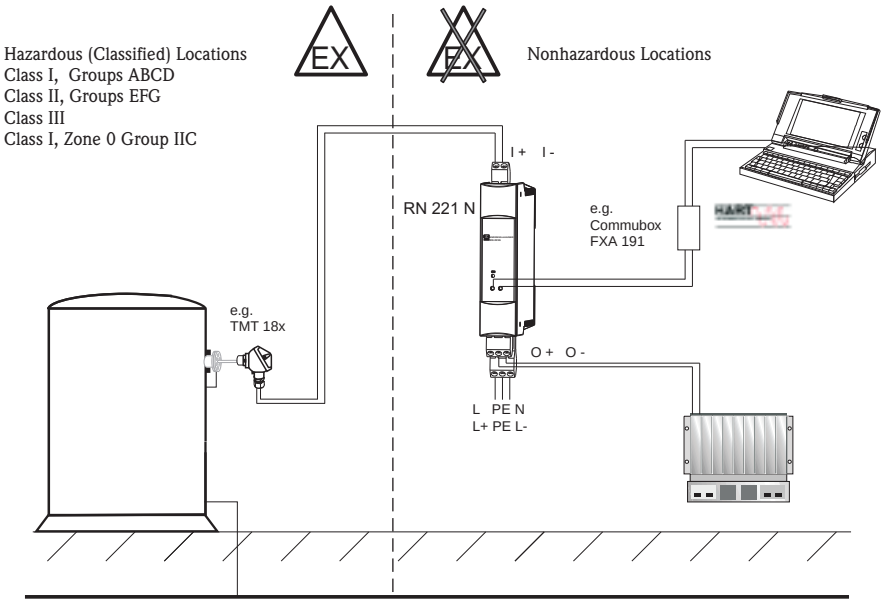

Temperature range

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 = 681nF	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 RN 221 N

- 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 nonhazardous locations.
- Installation should be in accordance with the Canadian Electrical Code (CEC).
- For entity installations use certified equipment that satisfy the following condition
  Uo/Voc ≤ Vmax/Ui Io/Isc ≤ Imax/Ii Po ≤ Pi Co/Ca ≥ Ci + Ccable Lo/ La ≥ 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 INSTALLATION — Class I / Div. 2 / Groups ABCD

- 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 ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
- For entity installations use certified equipment that satisfy the following condition
  Uo/Voc ≤ Vmax/Ui Io/Isc ≤ Imax/Ii Po ≤ Pi Co/Ca ≥ Ci + Ccable Lo/ La ≥ Li + Lcable

	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	
	Kellermann	2001-12-14	02 02 00 112	A		2005-01-07	MP	51001933 ZD 013R/09/en/05.02	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title			Series	
	Kellermann	2001-12-14	RN 221 N	1:1	CONTROL DRAWING CSA IS, NI			Objekt version	Sheet
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4					1 of 1

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