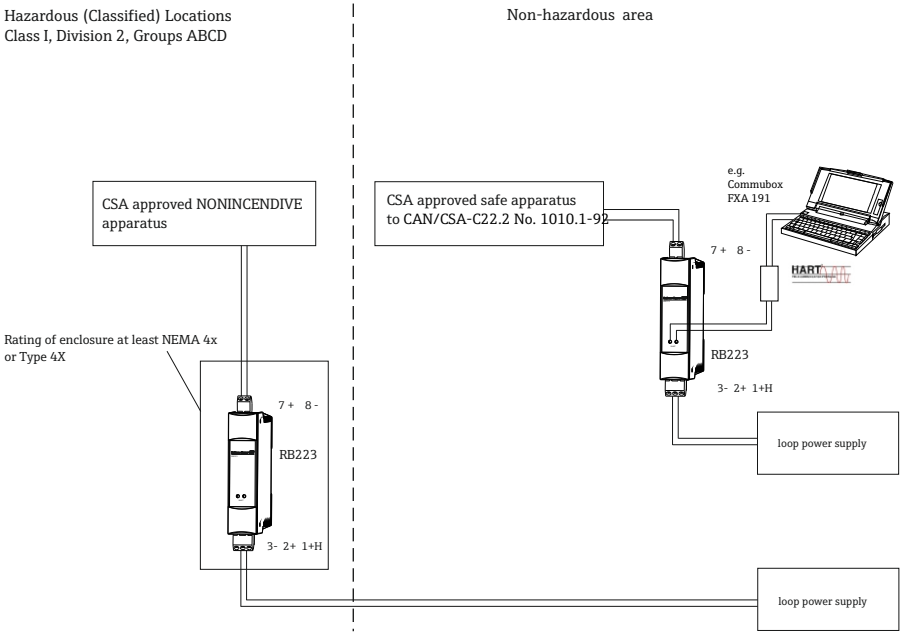

NONINCENDIVE **Class I / Div. 2 / Groups ABCD**

T4 -20°C ... +60°C

Transmission from Non-hazardous to hazardous (classified) area:

Supply (Terminals 1+ H, 2+, 3- and optionally 4+ H, 5+, 6-)
Um ≤ 30 VDC (loop powered) Im ≤ 100 mA

Output (Terminals 7 + 8 – and optionally 9+, 10-)

Uo or Voc = 27.3 V Io or Isc = 91.6 mA Po = 626 mW

Group A, B	resp.	[Ex ia] IIC	Co or Ca	= 88 nF	Lo or La = 4.7 mH
Group C	resp.	[Ex ia] IIB	Co or Ca	= 683 nF	Lo or La = 19 mH
Group D	resp.	[Ex ia] IIA	Co or Ca	= 683 nF	Lo or La = 19 mH

Transmission from hazardous (classified) to Non-hazardous area:

(Terminals 1+ H, 2+, 3- and optionally 4+ H, 5+, 6-)
Um ≤ 30 VDC (loop powered) Im ≤ 100 mA

(Terminals 7 + 8 – and optionally 9+, 10-)
Vmax or Ui ≤ 30V Ci = 0
Imax or Ii ≤ 100mA Li = 0
Pi ≤ 750mW

Uo or Voc = 0 Io or Isc = 0

Installation Notes RB223

- 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.
- For hazardous area Class I install the device of Protection Ratings of least NEMA 4X, Type 4X.
- For Non-hazardous area install the device of Protection Ratings of least NEMA 1, Type 1
- Warning: Substitution of components may impair suitability for Class I, Division 2.

NONINCENDIVE Field WIRING INSTALLATION Class I / Div. 2 / Groups ABCD

- The device is a Nonincendive equipment and must be installed in Division 2 or non-hazardous Locations only.
- 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

Functional ratings

These ratings do not supersede Hazardous Location values
Unom ≤ 30 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	2007-02-19	02 20 00 113	-	-	-	-	71540289 XA02289R/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title			Series	
	Pfanzelt	2006-07-25	RB 223	1:1	CONTROL DRAWING CSA NONINCENDIVE			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