XA01451K/09/EN/02.18
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Safety Instructions
Active barrier

RN221N

[Ex ia Ga] IIC

Document: XA01451K
Safety instructions for electrical apparatus for explosion-hazardous areas → 3

Endress+Hauser
People for Process Automation

Active barrier

RN221N

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Associated documentation

- Operating instructions: KA00124R/09/
- Operating instructions with HART® diagnosis: BA00202R/09/

Supplementary Documentation

Explosion-protection brochure:
CP00021Z/11

EAC certificate of conformity according to TR CU 012/2011

The device meets the fundamental health and safety requirements for the design and construction of devices and protective systems intended for use in potentially explosive atmospheres in accordance with TR CU 012/2011.

Certification body: ООО "НАНИО ЦСВЭ"

Certificate number: TC RU C-DE.AA87.B.01212

Affixing the certificate number certifies conformity with the following standards:

ГОСТ 31610.11-2014 (IEC 60079-11:2011)

ГОСТ 31610.0-2014 (IEC 60079-0:2011)

Manufacturer address

Endress+Hauser Wetzer GmbH + Co KG

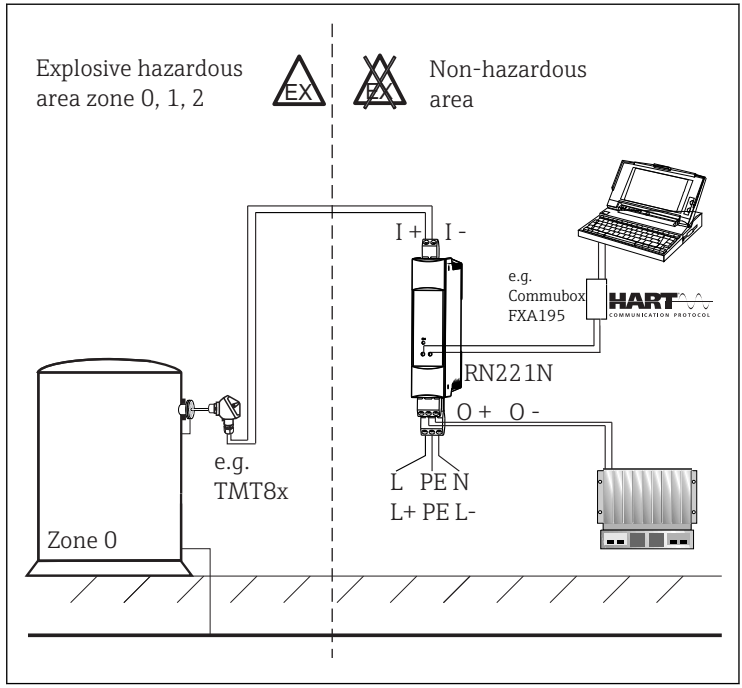
Obere Wank 1

D-87484 Nesselwang

Germany

Phone: +49 (0)8361 308 0

Safety instructions



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Safety instructions: Installation

- Install the device according to the manufacturer's instructions and any other valid standards and regulations.
- The unit is an associated electrical apparatus and can only be installed outside the hazardous area.
- The unit must be installed in such a way that a minimum ingress protection of IP 20 is achieved.
- When installing the unit care must be taken that there must be a spacing of at least 50 mm (zone radius) to the intrinsically safe terminals.

Electrical connection data

RN221N			[Exia]IIC
Supply set	L/L+	N/L	U_m = 20 to 250 V DC/AC 50/60 Hz
Ground cable		PE	
Loop power	I+	I-	$U_o \leq 27.3$ V
(intrinsically safe)			$I_o \leq 87.6$ mA
			$P_o \leq 597$ mW

RN221N			**[Exia]IIC**	
Internal capacitance			C_i = negigibly small	
Internal inductance			L_i ≈ 24 µH	
Max. connection values		Ex ia IIC	C_o ≤ 86 nF	L_o ≤ 5.2 mH
		Ex ia IIB	C_o ≤ 683 nF	L_o ≤ 18.9 mH
Output	O+	O-	4 to 20 mA	
(HART® communication)	O+H			
Temperature range			T_a = −20 to +50 °C	

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