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71488883
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Safety Instructions
Active barrier

RN221N

JPN: [Ex ia] IIC

Document: XA01960K
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

The Explosion-protection brochure is available:
In the download area of the Endress+Hauser website:
www.endress.com -> Downloads -> "Brochures and catalogs" ->
Text Search: CP00021Z

Manufacturer address

Endress+Hauser Wetzer GmbH + Co KG

Obere Wank 1

D-87484 Nesselwang

Germany

Phone: +49 (0)8361 308 0

Manufacturer´s certificates

JPN certificate of conformity

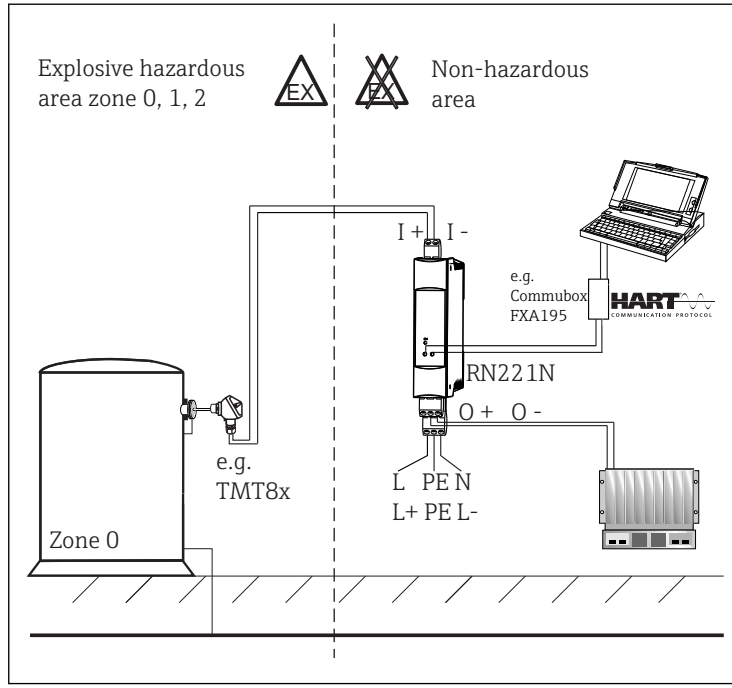
Certificate number: CSAUK 19JPN053X

Affixing the certificate number certifies conformity with the following standards (depending on the device version):

JNIOSH-TR46-1:2015

JNIOSH-TR46-6:2015

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			[Ex ia] 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			**[Ex ia] 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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