

## RN221N

### Active barrier with optional HART® diagnosis

Active barrier with power supply for safe separation of 4...20 mA current circuits



from **\$222.00**

Price as of 04/23/2021

More information and current pricing:

[www.us.endress.com/RN221N](http://www.us.endress.com/RN221N)

#### Benefits:

- Wide range power supply, flexible power source
- Compact side by side DIN rail housing
- International Ex approvals; marine approval
- Bidirectional HART® transmission. Communication sockets for HART® sensor setting up. Evaluation of status information from connected transmitter with HART® protocol.
- Primary or secondary master operating mode, automatic selection
- Sensor monitoring with early-warning system
- Manual or automatic reset of the relay contact

#### Specs at a glance

- **Input** 1 x analog 4...20 mA
- **Output** 1 x analog 4...20 mA
- **Power Supply** Not defined

**Field of application:** The active barrier RN221N supplies e.g. a transmitter with power, if required also in the Ex-area, and then transmits the galvanically isolated signal. With the optionally available HART® monitoring the status of the transmitter is monitored. If an error arises a relay at the RN221N sends an alarm. The relay has to be actively set back. Thus even just briefly occurring errors can be easily located.

#### Features and specifications

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**Power supplies & barrier****Measuring principle**

Active barrier

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**Measuring principle**

Power supply

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**Function**

Active barrier with power supply for safe separation of 4...20 mA current circuit

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**Loop power supply**

20...250 V DC/AC

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**Power Supply**

Not defined

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**Auxiliary power supply / Loop power supply**

20...250 V DC/AC

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**Input**

1 x analog 4...20 mA

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**Output**

1 x analog 4...20 mA

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**Software functions**Not defined

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Power supplies & barrier

**Certificates**

Non-hazardous area

ATEX (Ex ia)

FM AIS

CSA (Ex ia)

IECEX (Ex ia)

NEPSI (Ex ia)

JPN (Ex ia)

Non-hazardous area + EAC marking

EAC (Ex ia)

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**SIL**

Not defined

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**Operation**

HART

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Acquisition / Evaluation

**Measuring principle**

Power supply

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**Function**

Active barrier with power supply for safe separation of 4...20 mA current circuit

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**Acquisition / Evaluation****Certification**

ATEX II(1)GD(Ex ia)IIC

FM USA IS

FM USA NI

CSA IS

CSA NI

IECEX Ex ia

TIIS Ex ia

GOST Ex i

Marine approval

SIL

Hygenic WHG

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**Input**1 x analog 4...20 mA

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**Output**1 x analog 4...20 mA

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**Relay output**1 x no contact

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**Auxiliary power supply / Loop power supply**20...250 V DC/AC

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Acquisition / Evaluation

**Dimensions (wxhxd)**

22.5 x 110 x 112 mm

(0.89" x 4.33" x 4.41")

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**Operation**

HART

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More information [www.us.endress.com/RN221N](http://www.us.endress.com/RN221N)