

RN221N

Active barrier with optional HART® diagnosis

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



from **SEK1,468.00**

Price as of 09.12.2022

More information and current pricing:

www.se.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

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

Power supplies & barrier

Measuring principle

Active barrier

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

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

Loop power supply20...250 V DC/AC

Auxiliary power supply / Loop power supply20...250 V DC/AC

Input1 x analog 4...20 mA

Output1 x analog 4...20 mA

Certificates

ATEX II (1)GD (Ex ia) IIC

FM AIS I,II,III/1/ABCDEFG1

CSA (Ex ia) I,II,III/1/ABCDEFG1

IECEX (Ex ia) IIC

NEPSI (Ex ia) IIC

JPN (Ex ia) IIC

EAC (Ex ia) IIC

OperationHART

Acquisition / Evaluation**Measuring principle**Power supply

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

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

Input

1 x analog 4...20 mA

Output

1 x analog 4...20 mA

Relay output

1 x no contact

Auxiliary power supply / Loop power supply

20...250 V DC/AC

Dimensions (wxhxd)

22.5 x 110 x 112 mm

(0.89" x 4.33" x 4.41")

Operation

HART

More information www.se.endress.com/RN221N