

RN221N

Active barrier with optional HART® diagnosis

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



from **IDR2,271,874.00**

Price as of 25.05.2022

More information and current pricing:

www.id.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

Acquisition / Evaluation

Measuring principle

Power supply

Acquisition / Evaluation**Function**

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

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

Power supplies & barrier**Measuring principle**

Active barrier

Measuring principle

Power supply

Function

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

Loop power supply

20...250 V DC/AC

Auxiliary power supply / Loop power supply

20...250 V DC/AC

Input

1 x analog 4...20 mA

Output

1 x analog 4...20 mA

Certificates

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)

Operation

HART

More information www.id.endress.com/RN221N