

## RN22 active barrier, power supply, analog signal doubler

Intrinsically safe 24 V<sub>DC</sub> compact interface module for use in hazardous areas, SIL systems



### Benefits:

- Intrinsically safe interface device suited for use in safety instrumented systems up to SIL 2 (SC 3) in accordance with IEC 61508
- Quick and easy wiring with screw or push-in terminals or power supply via power rail T-connector
- Easy access to frontside HART® connection taps
- Compact housing: up to two channels on 12.5 mm (0.49 in) for efficient use of space in control cabinets

### Specs at a glance

- **Input** 0/4...20 mA / HART feeding/not feeding
- **Output** 0/4...20 mA / HART active/passive
- **Power Supply** 24 V DC

from **€106.00**

Price as of 05.07.2022

More information and current pricing:

[www.it.endress.com/RN22](http://www.it.endress.com/RN22)

**Field of application:** The 1- or 2-channel RN22 active barrier powers analog instrument loops and **safety instrumented systems** up to SIL 2 (SC 3). The intrinsically safe, **HART®** transparent interface establishes a reliable link between field devices and process control. It interfaces with 2-/4-wire devices in hazardous areas and provides a second galvanically isolated signal output acc. to **NAMUR NE 175**. This opens a second channel for the process optimization domain without affecting the traditional automation system.

### Features and specifications

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

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**Measuring principle**Active barrier

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**Function**1-channel  
2-channel  
Signal doubler

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**Loop power supply**17,5 V  $\pm$ 1 V bei 20 mA open circuit  
voltage: 24,5 V  $\pm$ 5 %

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**Power Supply**24 V DC

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**Input**0/4...20 mA / HART  
feeding/not feeding

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**Output**0/4...20 mA / HART  
active/passive

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**Certificates**ATEX  
IECEX  
CSA  
DNV  
UL C/US  
Non-hazardous area + EAC  
marking

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**SIL**SIL 2 SC 3

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Power supplies & barrier

**Operation**  
HART

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More information [www.it.endress.com/RN22](http://www.it.endress.com/RN22)