RN22 active barrier, power supply, analog signal doubler

Intrinsically safe 24 V_{DC} compact interface module for use in hazardous areas, SIL systems

More information and current pricing:
www.jp.endress.com/RN22

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

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

Power supplies & barrier

Measuring principle
Active barrier

Measuring principle
Active barrier

Function
1-channel
2-channel
Signal doubler

Loop power supply
17,5 V ±1 V bei 20 mA open circuit voltage: 24,5 V ±5 %

Power Supply
24 V DC

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

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

Certificates
ATEX
IECEx
DNV
Non-hazardous area + EAC marking

SIL
SIL 2 SC 3

Operation
HART

More information **www.jp.endress.com/RN22**

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