RB223
Loop powered passive barrier

One or two-channel barrier for the safe separation of 4...20 mA standard signal circuits

Benefits:
- Compact side-by-side housing for DIN rail
- Space-saving one-channel and two-channel version
- No power supply necessary
- International Ex approvals; Can be used up to SIL 3
- Bidirectional HART® transmission
- Communication sockets for HART® + integrated HART® resistor for sensor configuration

Specs at a glance
- **Input** 2 x analog 4...20 mA
- **Output** 2 x analog 4...20 mA

Field of application: The RB223 passive barrier can be used to galvanically isolate active signal circuits (0 to 20 mA) in three applications: Transmission from non-Ex to Ex areas e.g for active adjusters, controllers or indicators, Transmission from Ex to non-Ex areas for connection of active, intrinsically safe circuits to the PLC, Transmission from Ex to non-Ex areas for supply of intrinsically safe transmitters with non-intrinsically safe transmitter power supply.

Features and specifications

Power supplies & barrier

**Measuring principle**
Passive barrier
### Power supplies & barrier

**Measuring principle**
Power supply

**Function**
Passive barrier for safe separation of 4...20 mA current circuit

**Loop power supply**
Loop powered

**Auxiliary power supply / Loop power supply**
Loop powered

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

**Output**
2 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
- SIL

**Operation**
HART

### Acquisition / Evaluation

**Measuring principle**
Power supply

**Function**
Passive barrier for safe separation of 4...20 mA current circuit
## Acquisition / Evaluation

**Certification**
- CSA GP
- ATEX Ex ia
- CSA IS
- CSA NI
- SIL

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

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

**Auxiliary power supply / Loop power supply**
Loop powered

**Dimensions (wxhxd)**
22.5 x 110 x 112 mm  
(0.89" x 4.33" x 4.41")

**Operation**
HART

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More information [www.us.endress.com/RB223](http://www.us.endress.com/RB223)