

## 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<sup>®</sup> transmission
- Communication sockets for HART<sup>®</sup> + integrated HART<sup>®</sup> resistor for sensor configuration

#### Specs at a glance

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

from **DKK865.00**

Price as of 28.11.2022

More information and current pricing:

[www.dk.endress.com/RB223](http://www.dk.endress.com/RB223)

**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

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

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

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**Loop power supply**Loop powered

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

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

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

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**Certificates**

ATEX II(1)GD(Ex ia)IIC

FM AIS I,II,III/1/ABCDEFG1

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

SIL

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**Operation**HART

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**Acquisition / Evaluation****Measuring principle**Power supply

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

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Acquisition / Evaluation

**Certification**

CSA GP  
ATEX Ex ia  
CSA IS  
CSA NI  
SIL

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**Input**

2 x analog 4...20 mA

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**Output**

2 x analog 4...20 mA

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**Auxiliary power supply / Loop power supply**

Loop powered

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**Dimensions (wxhxd)**

22.5 x 110 x 112 mm  
(0.89" x 4.33" x 4.41")

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**Operation**

HART

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