

## Ex power supply

### 5420B

- 2 channels
- 5-port 3.75 kVAC galvanic isolation
- Output voltage > 18 V to I.S. area
- Active current loop detection
- Universal supply by AC or DC



#### Application

- Voltage supply with safety barrier for the supply of equipment mounted in hazardous area.
- Voltage supply with failsafe detection of active current loop from 2-wire transmitters mounted in hazardous area.

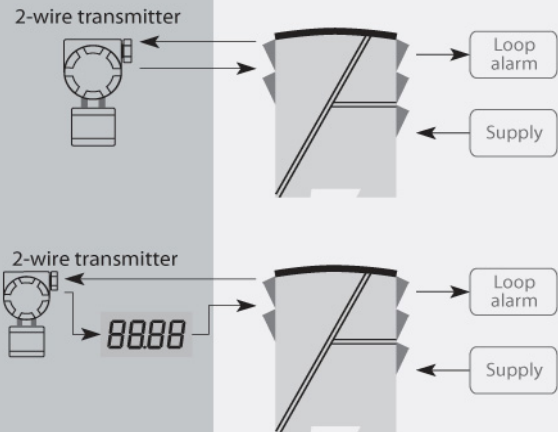
#### Technical characteristics

- PR5420B has a relay with change-over contacts available in the safe area. When the loop current is within the defined limit, the relay is ON.
- Supply and outputs are floating and galvanically separated.

#### Mounting / installation

- Mounted vertically or horizontally on a DIN rail. Up to 84 channels per meter can be mounted.

#### Connections



**Order:**

Type	Channels
5420B	Double : 2

**Environmental Conditions**

Specifications range..... -20°C to +60°C  
 Calibration temperature..... 20...28°C  
 Relative humidity..... < 95% RH (non-cond.)  
 Protection degree..... IP20

**Mechanical specifications**

Dimensions (HxWxD)..... 109 x 23.5 x 130 mm  
 Weight approx..... 215 g  
 DIN rail type..... DIN 46277  
 Wire size..... 1 x 2.5 mm<sup>2</sup> stranded wire  
 Screw terminal torque..... 0.5 Nm

**Common specifications**

Supply voltage, universal..... 21.6...253 VAC, 50...60 Hz or  
 19.2...300 VDC  
 Max. power consumption..... ≤ 4 W (2 channels)  
 Internal consumption..... ≤ 2 W (2 channels)  
 Fuse..... 400 mA SB / 250 VAC  
 Isolation voltage, test /  
 working..... 3.75 kVAC / 250 VAC  
 EMC immunity influence..... < ±0.5%  
 Extended EMC immunity: NAMUR  
 NE 21, A criterion, burst..... < ±1%

**Output specifications**

Output voltage..... > 18 VDC at 20 mA  
 Output current..... 28 mA per channel (max.)  
 Relay outputs: On within limit..... > 3.8...< 20.5 mA  
 Max. voltage..... 250 VRMS  
 Max. current..... 2 ARMS  
 Max. AC power..... 100 VA  
 Max. load at 24 VDC..... 1 A

**Approvals**

EMC..... EN 61326-1  
 LVD..... EN 61010-1  
 PELV/SELV..... IEC 364-4-41 and EN 60742  
 ATEX..... DEMKO 99ATEX126256  
 GOST R..... Yes  
 GOST Ex..... Yes