

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 2wire transmitters mounted in hazardous area.

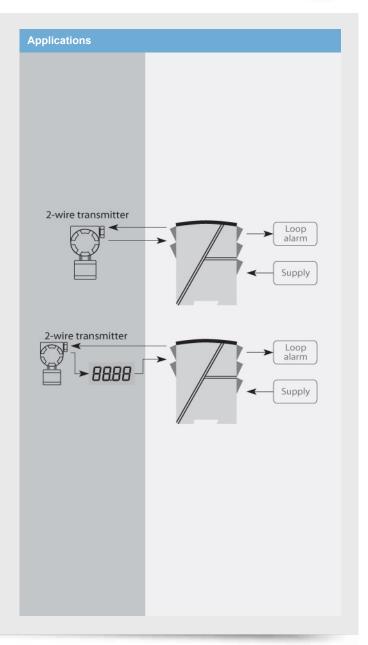
Technical characteristics

- 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.

· Not suitable for new installations requiring certification to the latest ATEX standards - see ATEX certificate DEMKO 99ATEX126256 and EU Declaration of Conformity for details.



Order:

Туре	Channels	
5420B	Double	: 2

Environmental Conditions

Operating temperature	-20°C to +60°C
Calibration temperature	2028°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	
Wire size	
	stranded wire
Screw terminal torque	0.5 Nm

Common specifications

Supply

Supply voltage, universal	21.6253 VAC, 5060 Hz or 19.2300 VDC
	19.2300 VDC
Max. required power	≤ 4 W (2 channels)
Internal power dissipation	≤ 2 W (2 channels)
Fuse	400 mA SB / 250 VAC

Isolation voltage

Isolation voltage, test /	
working	3.75 kVAC / 250 VAC
PELV/SELV	IEC 61140
EMC immunity influence	< ±0.5%
Extended EMC immunity: NAMUR	
NE21, A criterion, burst	< ±1%

Output specifications

Relay output

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

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/EU
EAC	TR-CU 020/2011

Approvals

ATEX	DEMKO 99ATEX126256, II (1)
	GD [EEx ia] IIC
EAC Ex.	FAFU KZ 7500361 01 01 08756