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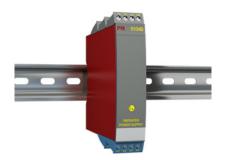
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Ex repeater / power supply

5104B

- 1- or 2-channel version
- 3- / 5-port 3.75 kVAC galvanic isolation
- Loop supply > 17.1 V in hazardous area
- 20 programmable measurement ranges
- Universal supply by AC or DC

















Application

- · Supply voltage and safety barrier for 2-wire transmitters mounted in a hazardous area.
- · Safety barrier for analog current / voltage signals from a hazardous area.
- 1:1 or signal conversion of analog current / voltage signals.

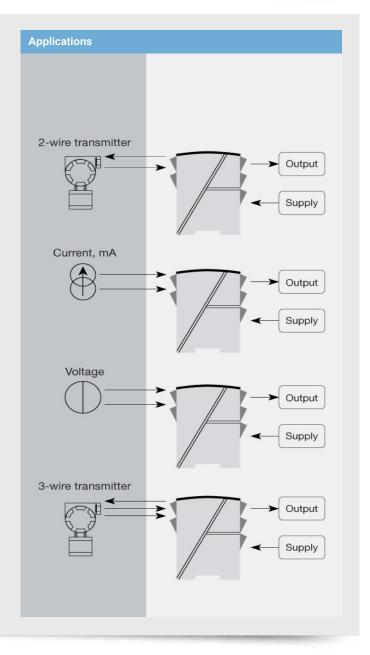
Technical characteristics

- The 20 factory-calibrated measurement ranges in the 5104B can be selected by the internal DIP-switches without the need for recalibration. Special measurement ranges can be delivered.
- · PR5104B is based on microprocessor technology for gain and offset. The analog signal is transmitted at a response time of less than 25 ms.
- · Inputs, outputs, and supply are floating and galvanically separated.
- The output can be connected either as an active current / voltage transmitter or as a 2-wire transmitter.

Mounting / installation

• Mounted vertically or horizontally on a DIN rail. By way of the 2channel version 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 99ATEX126013 and Declaration of conformity for details.



Order:

Туре	Input		Output		Channe	ls
5104B	020 mA	: A	Special	: 0	Single	: A
	420 mA	: B	020 mA	: 1	Double	: B
	010 V	: E	420 mA	: 2		
	210 V	: F	01 V	: 4		
	Special	: X	0.21 V	: 5		
	835		010 V	: 6		
			210 V	: 7		

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Enviro	nmenta	I Col	naitio	ns

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
DIN rail type	DIN 46277
Weight approx	
Wire size	1 x 2.5 mm ² stranded wire
Screw terminal torque	0.5 Nm
Vibration	IEC 60068-2-6
213.2 Hz	±1 mm
13.2100 Hz	±0.7 q

Common specifications

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Su	ın	n	w

Supply voltage, universal	21.6253 VAC, 5060 Hz or 19.2300 VDC
Fuse	400 mA SB / 250 VAC
Max. required power	≤ 3 W (2 channels)
Internal power dissipation	≤ 2 W (2 channels)

Isolation voltage

isolation voltage, test /	
working	3.75 kVAC / 250 VAC
PELV/SELV	IEC 61140

Auxiliary supplies

Response time	0.5
Response time (090%, 10010%)	< 25 ms
Signal / noise ratio	Min. 60 dB (0100 kHz)
Accuracy	Better than 0.1% of sel. range
EMC immunity influence	< ±0.5% of span
Extended EMC immunity: NAMUR	
NE21, A criterion, burst	< ±1% of span

Input specifications

Common input specifications

Max. offset	20%	of max.	value

Current input

Measurement range	020 mA
Min. measurement range (span)	16 mA
Input resistance	Nom. 10 Ω + PTC 10 Ω

Voltage input

Measurement range	010 VDC
Min. measurement range (span)	8 VDC
Input resistance	> 2 MΩ

Output specifications

Current output

Signal range	020 mA
Min. signal range	16 mA
Load (@ current output)	≤ 600 Ω
Load stability	\leq 0.01% of span / 100 Ω
Current limit	< 28 mA

Passive 2-wire mA output

Effect of external 2-wire supply voltage variation...... < 0.005% of span / V

Voltage output

Signal range	01 VDC / 010 VDC
Min. signal range	0.8 VDC / 8 VDC
Load (@ voltage output)	≥ 500 kΩ
External loop supply	29 VDC

of span.... = of the presently selected range

Observed authority requirements

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

Approvals

ATEX	DEMKO 99ATEX126013, II (1) GD [EEx ia] IIC
c UL us, UL 913	E233311
EAC Ex	EAEU KZ 7500361.01.01.08756
DNV Marine	TAA0000101

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