

Order: 5107B

Type	Input	Output	Channels
5107B	4...20 mA : B	4...20 mA : 2	Single : A
		20...4 mA : 9	Double : B

Electrical specifications

Specifications range:

-20°C to +60°C

Common specifications:

Supply voltage universal 21.6...253 VAC

50...60 Hz

19.2...300 VDC

Internal consumption ≤ 2 W (2 channels)

Max. consumption ≤ 2 W (2 channels)

Fuse 400 mA SB / 250 VAC

Isolation voltage, test / operation 3.75 kVAC / 250 VAC

Long-term stability, better than $\pm 0.1\%$ of span / Year

Signal / noise ratio Min. 60 dB (0...100 kHz)

Response time (0...90%, 100...10%) < 25 ms

Calibration temperature 20...28°C

Accuracy, the greater of general and basic values:

General values		
Input type	Absolute accuracy	Temperature coefficient
mA	$\leq \pm 0.1\%$ of span	$\leq \pm 0.01\%$ of span / °C

Basic values		
Input type	Basic accuracy	Temperature coefficient
mA	$\leq \pm 16$ μ A	$\leq \pm 1.6$ μ A / °C

EMC immunity influence	< ±0.5% of span
Extended EMC immunity: NAMUR NE 21, A criterion, burst	< ±1% of span

Effect of supply voltage change (24...250 VAC / VDC)	< ±10 µA
Max. wire size.....	1 x 2.5 mm ² stranded wire
Screw terminal torsion	0.5 Nm
Relative humidity.....	< 95% RH (non-cond.)
Dimensions (HxWxD).....	109 x 23.5 x 130 mm
DIN rail type.....	DIN 46277
Protection degree.....	IP20
Weight	250 g

Current inputs:

Measurement range.....	4...20 mA
Min. measurement range (span)	16 mA
Input resistance:	
Supplied unit.....	10 Ω + PTC, VDROP < 1.3 V
Non-supplied unit	RSHUNT = ∞, VDROP < 3.5 V

Current outputs:

Signal range (span)	4...20 mA
Min. signal range (span)	16 mA
Load (max.).....	20 mA / 800 Ω / 16 VDC
Load stability	≤ 0.01% of span / 100 Ω
Current limit	≤ 28 mA

EEx / I.S. approval:

DEMKO 01ATEX127484	 II (1) GD [EEx ia] IIC
Applicable for zone	0, 1, 2, 20, 21 or 22

Ex / I.S. data:

U _m	: 250 V
U ₀	: 28 VDC
I ₀	: 93 mADC
P ₀	: 0.644 W
L ₀	: 3 mH
C ₀	: 0.08 µF