

Signal Conditioner BR-SC1A

- Suitable for Strain Gauge and Piezoresistive Sensors;
- Excitation Voltage 2V~10V with Auto-Sense;
- Gain 5~10000 is Optional, with Offset Function;
- Non-Linearity<0.01%FS;
- 4-pole Low-pass Filter Built in, and the bandwidth can be customized 10Hz~50kHz.

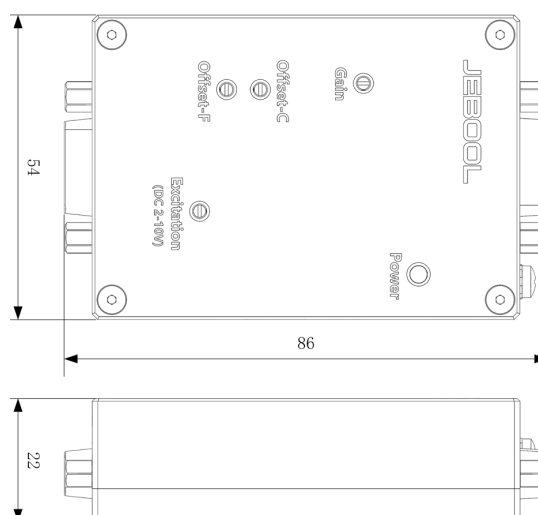


The signal conditioner BR-SC1A is used in the precise amplification of millivolt or microvolt voltage signals, while maintaining a high signal transmission bandwidth. For strain gauge bridges and piezoresistive type sensors, a precision excitation voltage with compensation is provided. At the same time, BR-SC1A has a built-in power filter module, which effectively suppresses the interference when the external power supply is with noise.

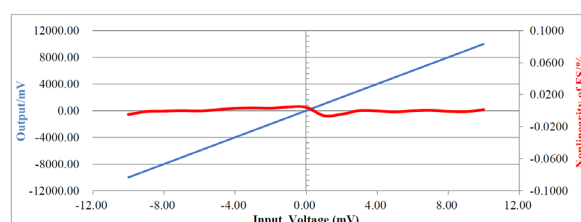
Specification (25℃, ±10mV input, ±10V Output):

Name	Unit	Value
Gain (Default)	/	250~1000
Non-Linearity	%FS	<0.01
Max. Output	V	± 10
Sensor Excitation	V	2~10
Sensor Max. Current	mA	40
Offset Range	%FS	100
Input Impedance	MΩ	> 10
Accuracy		±(0.2%+2mV)
Temperature Influence (Gain+Offset)	ppm/℃	≤ 50
Bandwidth (Default)	Hz	0-4k (-3dB)
CMRR	dB	95
Output Impedance	Ω	10
Power	V	DC18~36
Power Consumption	mA	< 50
Sensor Connector		DB9-Female
Power and Output		DB9-Male
Work Temperature	℃	-20 ~ +65
Mounting	/	DIN 35mm
Case Materials	/	Al-alloy
Weight	grams	160
Dimension	mm	86×54×22

Dimension:



DC Character:



AC Character:

