

SG-3081-G

DC Current Input Signal Conditioner

Features

- Three-way Isolation: 1000 VDC
- Accuracy: ±0.1% of full range
- Easy to configure input/output range
- Three VRs for calibrating accuracy of the input/output range
- Flexible DIN-rail

Introduction

The SG-3081 is a current input to voltage or current output signal conditioning module. It has 1000 Vdc three-way isolation for input, output and power. It also can change the input/output range via internal configuration switches. The SG-3081 has an LED display to show whether the SG-3081 is functioning correctly and has two VRs (Zero, Span) to calibrate accuracy of the input/output range. The bandwidth of the SG-3081 is typically 1 KHz. It is easy to mount the SG-3081 on a standard DIN rail and operate in environments with wide temperature range.

Applications

- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

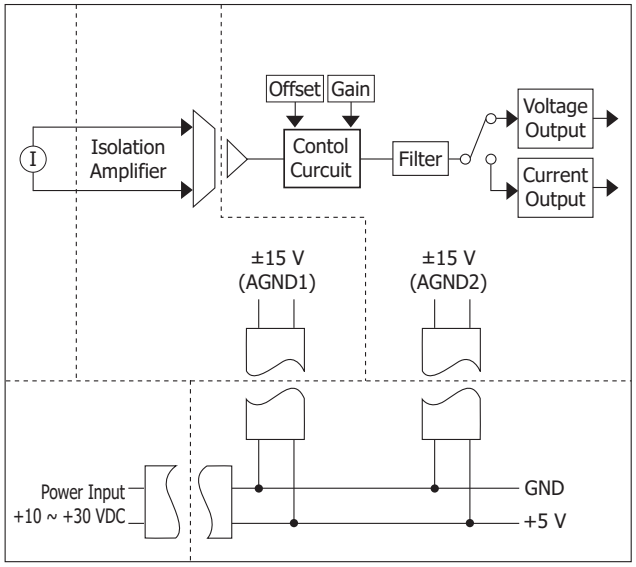
Specifications

Isolation	
Three-way Isolation	1000 VDC
Analog Input	
Type	0 ~ 20 mA, 4 ~ 20 mA (Unipolar)
Accuracy	±0.1% of full range
Bandwidth	1KHz
Input Impedance	250 Ω
Analog Output	
Channels	1
Range	Voltage: 0 ~ 5 VDC, 0 ~ 10 VDC Current: 0 ~ 20 mA, 4 ~ 20 mA
Current Load Resistance	0 ~ 500 Ω (Source)
Power	
Reverse Polarity Protection	Yes
Input Range	+10 ~ +30 VDC
Consumption	1.61 W (Voltage Output), 2.10 W (Current Output)
Mechanical	
Dimensions (mm)	25 mm x 114 mm x 70 mm (W x L x H)
Environment	
Operating Temperature	-25°C ~ +75 °C
Storage Temperature	-30°C ~ +75 °C
Humidity	5 ~ 95% RH, Non-condensing

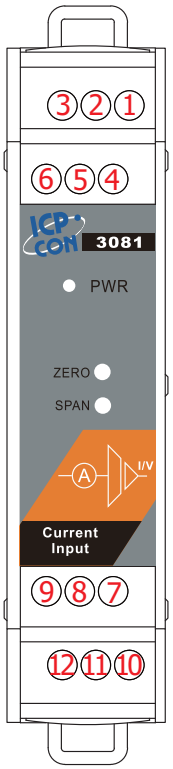
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SG-3081 Input To Output Setting		
Input	**Output**	**Polarity**
4 ~ 20 mA	4 ~ 20 mA	Unipolar
4 ~ 20 mA	0 ~ 20 mA	Unipolar
4 ~ 20 mA	0 ~ 10 V	Unipolar
4 ~ 20 mA	0 ~ 5 V	Unipolar
0 ~ 20 mA	0 ~ 20 mA	Unipolar
0 ~ 20 mA	4 ~ 20 mA	Unipolar
0 ~ 20 mA	0 ~ 10 V	Unipolar
0 ~ 20 mA	0 ~ 5 V	Unipolar

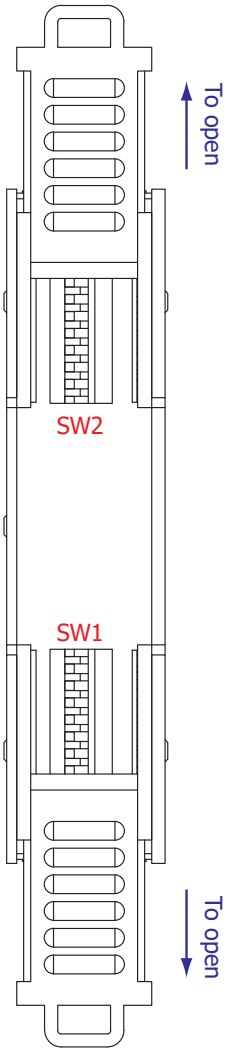
Internal I/O Structure



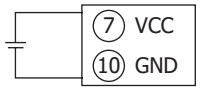
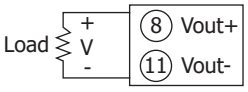
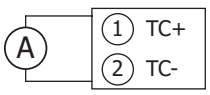
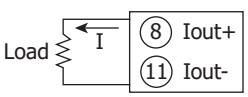
PIN Assignments



Pin	Name
1	INPUT+
2	INPUT-
3	FGND
4	Reserve
5	Reserve
6	Reserve
7	VCC
8	OUT+
9	VCC
10	GND
11	OUT-
12	GND

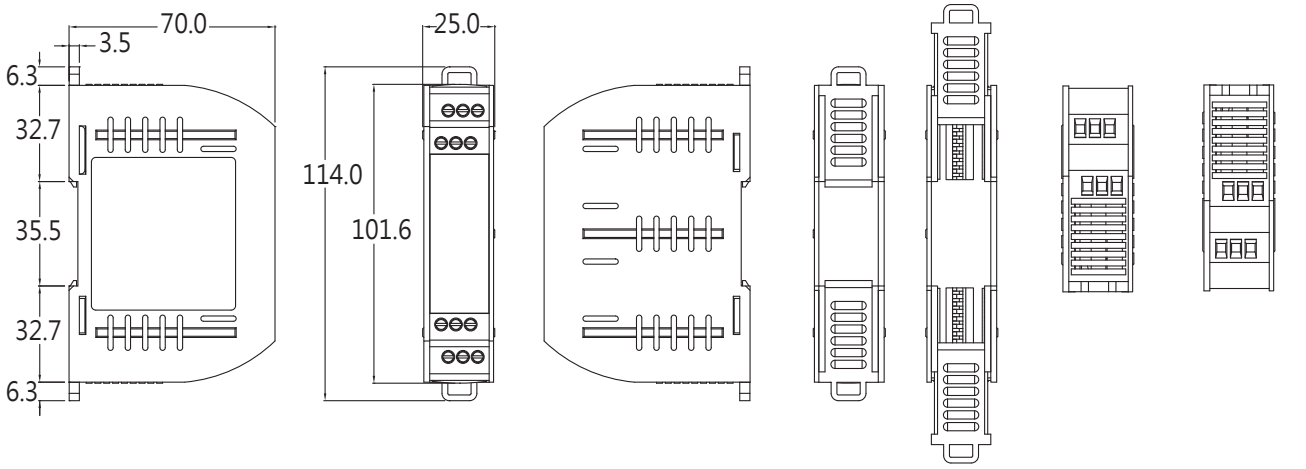


Wire Connections

Power Input	Voltage Output
	
Current Input	**Current Output**
	

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Dimensions (Units: mm)



Left View	Front View	Right View	Rear View	Top View	Bottom View

Ordering Information

SG-3081-G CR	DC Current Input Signal Conditioner (RoHS)