

SG-3081

Isolated DC current input/output module



Functional Description

The SG-3081 is a current input to voltage or current output signal conditioning module. It has 3000Vdc 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 3KHz. It is easy to mount the SG-3081 on a standard DIN rail and operate in environments with wide temperature range.

Applications

- Input/output signal conditioning
- Input, output or power isolation

Specifications

Current Input

- Unipolar: 0~20 mA, 4~20 mA
- Input impedance: 250 Ω

Voltage Output

- Unipolar: 0~5V, 0~10V
- Output impedance: <50 Ω
- Drive: 10mA (max)

Current Output

- Current: 0 ~ 20 mA, 4 ~ 20 mA
- Current load resistance: 0~500 Ω (Source)

Supply Voltage

- Input Range: 10~30Vdc
- Consumption: 1.61W (voltage output)
2.10W (current output)

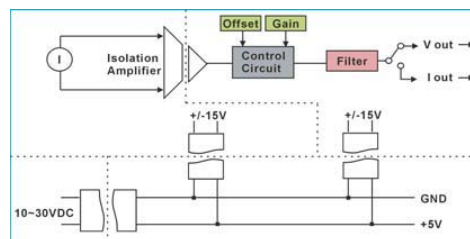
Features

- 3000Vdc isolation (three-way)
- Wide input/output range
- Stable voltage or current output
- Easy to configure input/output range
- Two VRs for calibrating accuracy of the input/output range
- Flexible DIN-rail mounting
- LED indicator

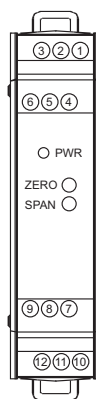
General Specifications

- Three-way isolation: 3000Vdc
- Accuracy: $\pm 0.1\%$ of full scale range (typical)
- Operating temperature: -25 ~ 75°C
- Storage temperature: -30 ~ 85°C
- Operation bandwidth: 3KHz
- Weight: 96 grams
- Dimensions: 113 mm x 70.5 mm x 24.5 mm

Block Diagram



Pin Assignment



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

Ordering Information

Standard

SG-3081: Isolated DC current input / output module