





SG-3016-G/SG-3016-80-G

Strain Gauge 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-3016/SG-3016-80 is a voltage 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-3016/SG-3016-80 has an LED display to show whether the SG-3016/SG-3016-80 is functioning correctly and has three VRs (Zero, Span, Exci) to calibrate accuracy of the input/output range.

The bandwidth of the SG-3016 is typically 600 Hz. The bandwidth of the SG-3016-80 is typically 80 Hz. It is easy to mount the SG-3016/SG-3016-80 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

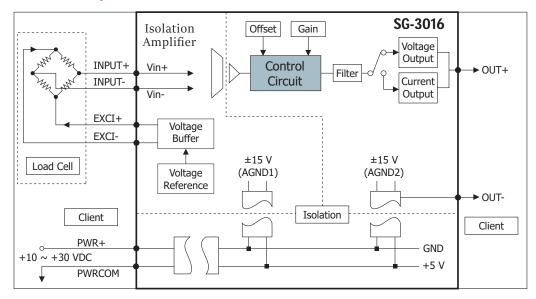
Specifications

Model Name	SG-3016	SG-3016-80	
Isolation			
Three-way Isolation	1000 VDC		
LED Indicators			
Status	Yes, 1 as Power/Communication Indicator		
Analog Input			
Channels	1		
Туре	±10 mV, ±20 mV, ±30 mV, ±50 mV, ±100 mV		
Accuracy	±0.1% of full range		
Bandwidth	<600 Hz	<80 Hz	
Analog Output			
Channels	1		
Range	Voltage: 0 ~ 5 VDC, 0 ~ 10 VDC, ±5 VDC, ±10 VDC Current: 0 ~ 20 mA		
Current Load Resistance	0 ~ 500 Ω (Source)		
Excitation Voltage Output			
Channels	1		
Range	0 ~ +10 VDC		
Max. Load Current	+20 mA		

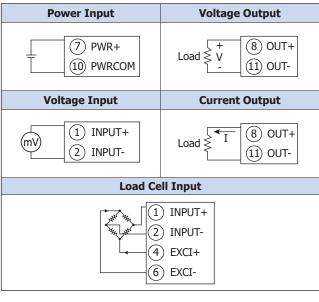
Model Name	SG-3016	SG-3016-80	
Power			
Reverse Polarity	Yes		
Protection			
Input Range	+10 ~ +30 VDC		
Consumption	1.44 W (Voltage Output),		
	1.74 W (Current Output)		
Mechanical			
Dimensions	25 mm x 114 mm x 70 mm (W x L x H)		
Environment			
Operating Temperature	-25 °C ~ 75 °C		
Storage Temperature	-30 °C ~ 75 °C		
Humidity	5 ~ 95%, non-condensing		

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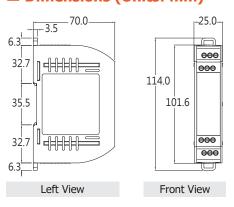
■ Internal I/O Structure



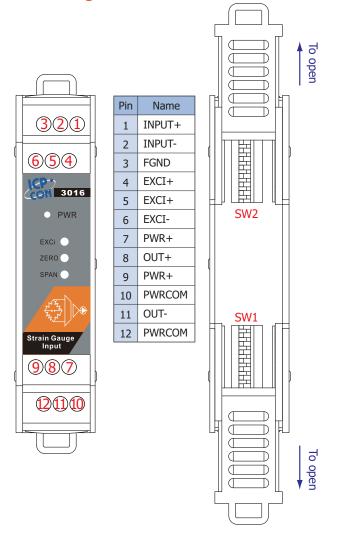
■ Wire Connections



■ Dimensions (Units: mm)



■ PIN Assignments



■ Ordering Information

SG-3016-G CR	Strain Gauge Input Signal Conditioner (RoHS)	
SG-3016-80-G CR Strain Gauge Input Signal Conditioner with 80 Hz Low Pass Filter (RoHS)		

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