

SG-3037-G

Triaxial signal conditioner for voltage output type accelerometer

Features

- 3-channel voltage input & output
- Input voltage range: 0-24V
- Provides signal bandwidth: 50 kHz
- Provides 24V power supply for the accelerometer

Introduction

SG-3037 is a Triaxial Signal Conditioner. SG-3037 with 3-channel analog inputs can connect to the voltage output SG-3037 is a Triaxial Signal Conditioner. SG-3037 with 3-channel analog inputs can connect to the voltage output accelerometer, and convert the signal measured from the accelerometer into the analog voltage output. PET-7H16M module collects the vibration data through SG-3037, and then send them via high-speed Ethernet to the data center for processing and analysis.



Applications

- Data Acquisition System
- Remote Diagnosis
- Vibration Measurement
- Testing Equipment

System Specifications

EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for Power Line
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Surge (IEC 61000-4-5)	±1 kV for Power Line
LED Indicators	
Status	1 as Power Indicator
Power	
Reverse Polarity Protection	Yes
Input Range	+10 ~ +30 VDC
Consumption	1.5 W
Mechanical	
Dimensions (W x L x H)	25 mm x 114 mm x 70 mm
Installation	DIN-Rail or Wall Mounting
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 95% RH, Non-condensing

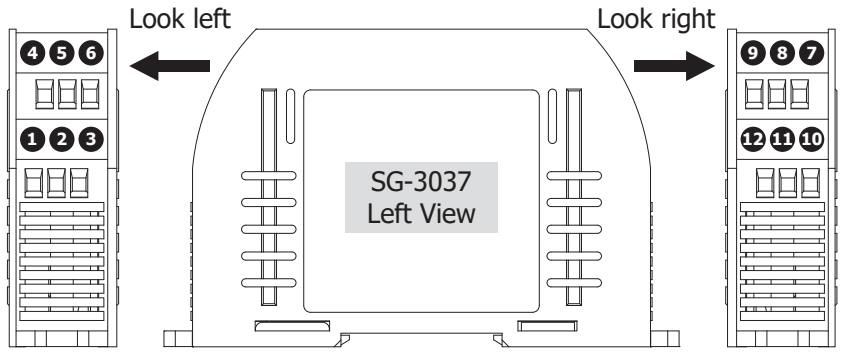
I/O Specifications

Analog Input	
Channels	3
Type	Voltage
Range	0 ~ 24 VDC
Accuracy	±5% of FSR
Bandwidth	50 kHz
Analog Output	
Channels	3
Type	Voltage
Range	±10 VDC
Excitation Voltage Output	
Range	24 VDC

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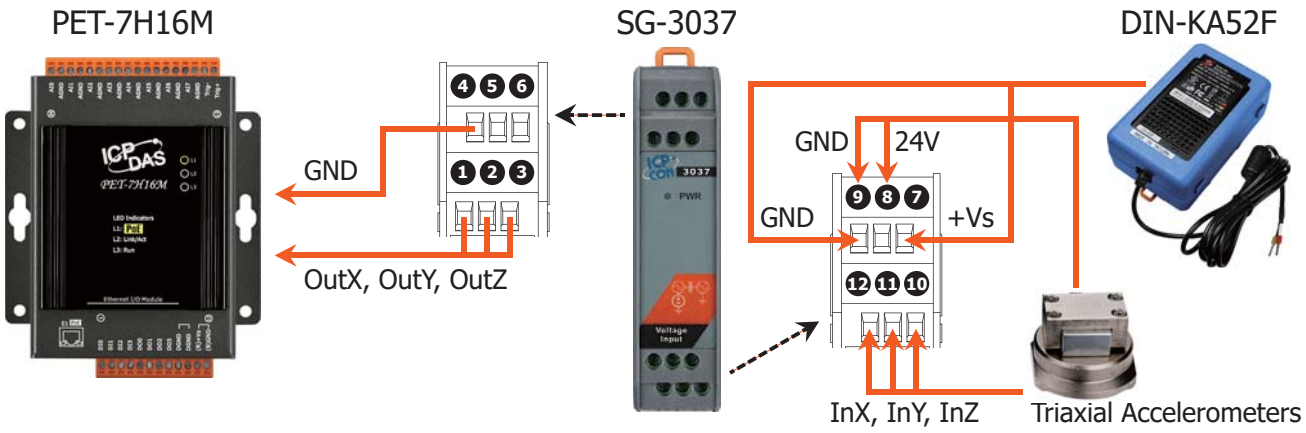
PIN Assignments

Output		
4	5	6
GND	F.G.	GND
1	2	3
OutX	OutY	OutZ



Input		
9	8	7
GND	24V	+Vs
12	11	10
InZ	InY	InX

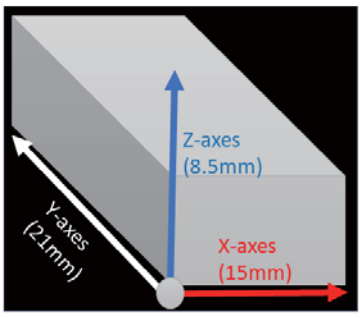
Wire Connections



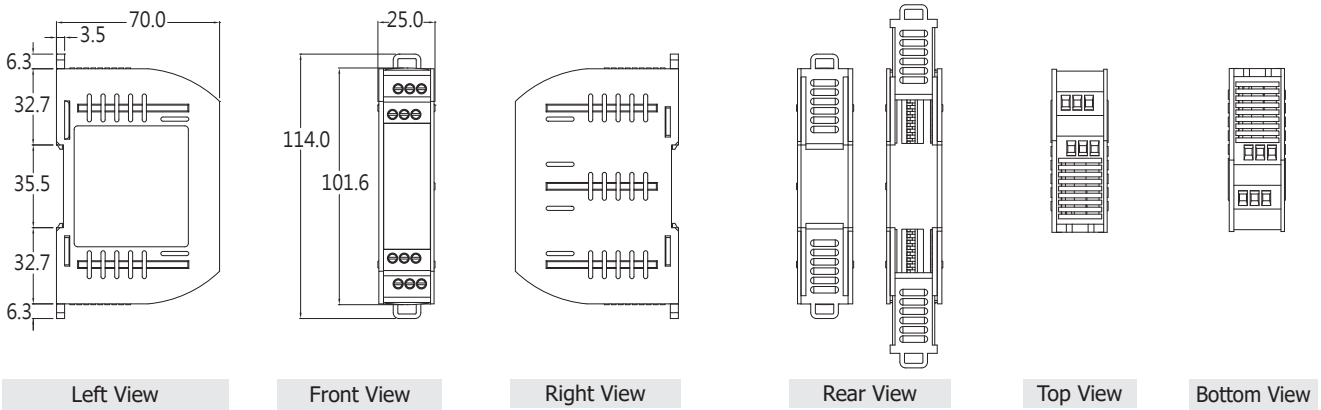


Triaxial Accelerometers

Wire Color	Function
Red	V+
White	X-axes
Blue	Y-axes
Yellow	Z-axes
Green	N/C
Black	GND



Dimensions (Units: mm)



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

Ordering Information

SG-3037-G CR	Triaxial signal conditioner for voltage output type accelerometer (RoHS)

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