



SG-3227 2-channel IEPE Signal Conditioner

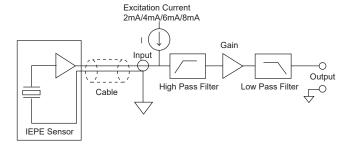
■ Introduction

SG-3227 is a 2-channel IEPE signal conditioner. It has 2mA/4mA/6mA/10mA excitation current for sensors with integrated amplifiers. It features three selectable gain x1/x10/x100 ranges individually for two channels. LED failure indicators for sensor condition minimize the risk of handling errors.

System Specifications

*			
Model Name	SG-3227		
LED Indicator			
System LED Indicator	1 as Power Indicator		
	Yellow: Sensor Open		
LED Status Indicator	Green: Sensor Normal		
	Red : Sensor Short		
Isolation			
Input/Output to Power	1000 VDC		
EMS Protection			
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal		
EFT (IEC 61000-4-4)	±4 kV for Power Line		
Surge (IEC 61000-4-5)	±1 kV for Power Line		
Power			
Reverse Polarity Protection	Yes		
Input Range	+10 to +30 VDC		
Consumption	3 W		
Mechanical			
Dimensions (W x L x H)	25 mm x 116 mm x 120 mm		
Installation	DIN-Rail or Wall Mounting		
Environment			
Operating Temperature	-25 to +75°C		
Storage Temperature	-40 to +85°C		
Humidity	10 to 95% RH, Non-condensing		

■ Function Diagrams



■ Features

- 2-channel Input
- Individual Channel Configuration
- Excitation Current Support: 2 mA / 4mA / 6mA / 10mA
- Signal Amplification of x1 , x10 and x100
- LED Indicators for Sensor Open, Short and Normal
- Flexible DIN-Rail Mounting









Applications

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

■ I/O Specifications

Model Name	SG-3227	
IEPE		
Channel	2	
Connectors	Screw Terminal (Including a female	
	BNC to terminal block adaptor)	
Excitation Current	2 mA / 4mA / 6mA / 10mA	
Gain	x1 / x10 / x100 for AC Coupling	
Upper Cut-off Frequency	x1, x10 Gain : 80 kHz ;	
	x100 Gain : 50 kHz	
Lower Cut-off Frequency	AC Coupling (0.1uF): 1.6 Hz	
Lower cut-on Frequency	AC Coupling (1uF): 0.2 Hz	

■ LED Indicators and Switch setting

.ED Indicators Description	
RED	Sensor Short
GREEN	Normal Operation
YELLOW	Sensor Open

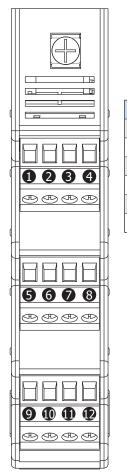
Coupling Setting	1	2
DC	OFF	OFF
AC (0.1 uF)	ON	OFF
AC (1 uF)	OFF	ON

Gain Setting	3	4
x1	OFF	OFF
x10	ON	OFF
x100	OFF	ON

Excitation Current Setting	5	6
2 mA	OFF	OFF
4 mA	ON	OFF
6 mA	OFF	ON
10 mA	ON	ON

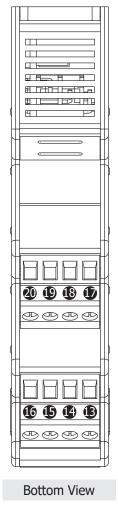
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■ Terminal Wiring Diagram



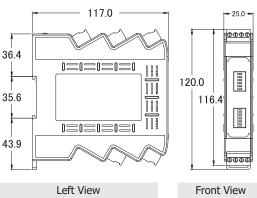
Top View

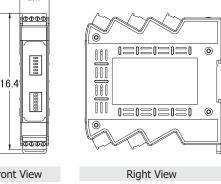
ТОР			
1	2	3	4
+VDD		/DD -VSS	
5	6	7	8
Out0+		Out0-	
9	10	11	12
IEPE0+		IEP	E0-

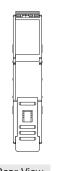


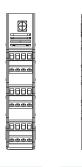
Bottom			
13	14	15	13
IEPI	EPE1+ IEPE1-		E1-
17	18	19	20
Out	Out1+ Out1-		

■ Dimensions (Units: mm)











Rear View Top View Bottom View

Ordering Information

SG-3227 CR 2-channel IEPE Signal Condition (RoHS)

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