



■ Introduction -

The SG-3383 DC current signal splitters accept one 4 to 20 mA current input and provide three optically isolated 4 to 20 mA current outputs that are linearly related to the 4 to 20 mA current input. This provides an economical solution when one signal must be sent to three different devices. Typical applications include isolation, output splitting, output device separation and redundancy (i.e. to prevent failure of the entire loop if one device fails), or a combination of these. The input signal is filtered, amplified, split, and then passed through an opto-coupler to the output stages. Full 3-way isolation (input, output, power) , 4 kV EFT Protection for Power Line and 8 kV ESD Protection make this module useful for ground loop elimination, common mode signal rejection, and noise pickup reduction.

3-channel DC Current Signal Splitter

The SG-3383 includes an LED display that can be used to indicate whether the module is functioning correctly, and also includes VRs (Zero, Span) that can be used to calibrate the output range accuracy. The input bandwidth of the SG-3383 is typically 2.5 kHz.

■ System Specifications ______

Model	SG-3383	
LED Indicators/Display		
System LED Indicator	Yes, 1 as Power/Communication Indicator	
I/O LED Indicators	-	
7-segment LED Display	-	
Isolation		
3-way Isolation	3000 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±8 kV Contact for each Terminal	
EFT (IEC 61000-4-4)	±4 kV for Power Line	
Surge (IEC 61000-4-5)	-	
Power		
Reverse Polarity Protection	Yes	
Input Range	+10 ~ +30 VDC	
Consumption	2.5 W	
Mechanical		
Dimensions (L x W x H)	127 mm x 33 mm x 99 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	

■ Features

- One 4 to 20 mA Input to Three 4 to 20 mA Outputs
- Zero and Span Adjustments for Each Output
- Full 3000 V Isolation for Input/Output/Power
- Built-In Loop Power Supplies for Sink/Source I/O
- Split, Convert, Boost, and Rescale Process Signals
- Split Process Signals for Control and Validation
- Interface a Process Signal with Multiple Panel Meters, PLCs, Recorders, Data Acquisition, DCS, and SCADA Systems
- 8 kV ESD Protection
- 4 kV EFT Protection for Power Line
- Flexible DIN-Rail Mounting
- Wide Operating Temperature Range: -25 to +75°C









Applications

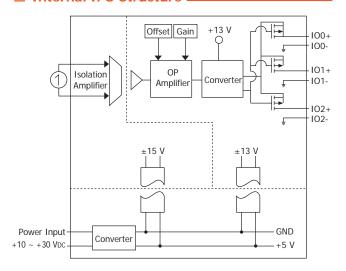
- Building AutomationFactory Automation
- Machine Automation
- Remote DiagnosisTesting Equipment
- Remote Maintenance



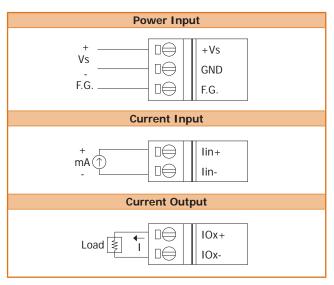
I/O Specifications _____

Model	SG-3383	
Analog Intput		
Channels	1	
Range	+4 ~ +20 mA	
Input Bandwidth	2.5 kHz	
Input Impedance	125 Ω	
Analog Output		
Channels	3	
Current Output Wiring	Source	
Range	+4 ~ +20 mA	
Accuracy	±0.1% of FSR (typical)	
Current Output Capacity	500 Ω	

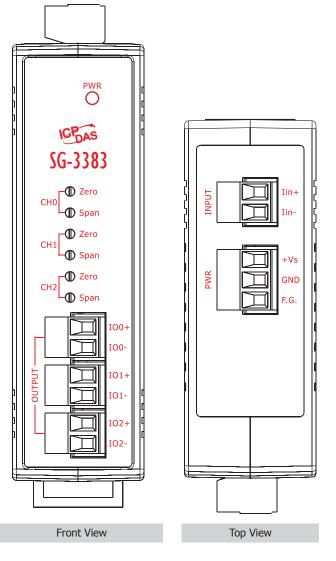
■ Internal I/O Structure ____



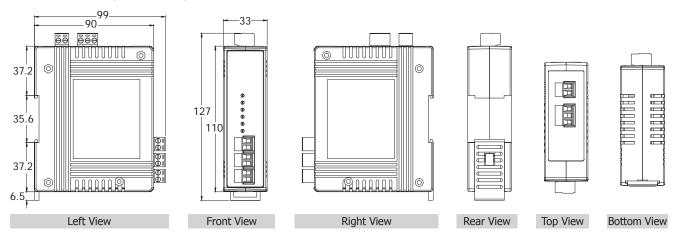
■ Wire Connections _







■ Dimensions (Units: mm) .



Ordering Information .

SG-3383 CR 3-channel DC Current Signal Splitter (Gray Cover) (RoHS)