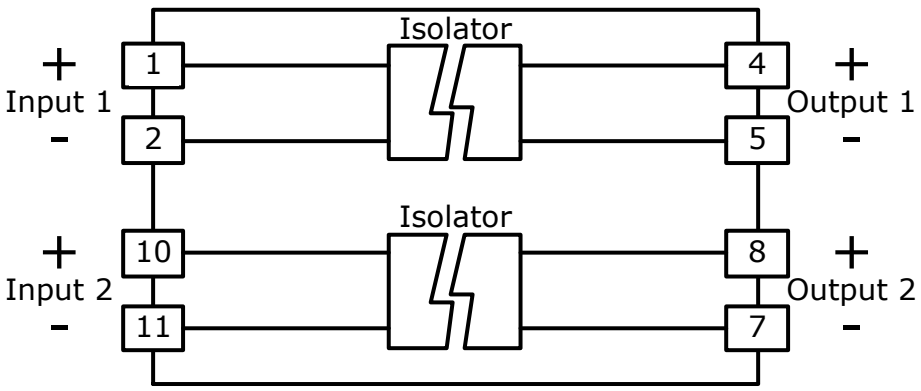
Signal Isolator

SI99

- Intrinsically safe isolation without power supply
- Eliminating ground-loop
- 2 channels available
- High accuracy and stability

The WISCO Signal Isolator is a WISCO Industries product designed to break the galvanic path between a transmitted signal source and a receiving device, such as a controller or recorder. The Signal Isolator solves the problem of transferred signal distortion due to ground potential differences. The Signal Isolator is highly effective in eliminating unreliable or inaccurate signal transfer by providing total current-to-current signal isolation. The Signal Isolator derives its operating potential from the existing input loop current and, therefore, does not require a dedicated power supply. The Signal Isolator is placed in series with the drive signal and provides and output current that is proportional to the input signal current.

When a signal isolation device is installed it is important to consider the voltage drop or additional line resistance that will be placed in the system. Any additional load tends to reduce the line or drive potential and may exceed the source rating. The effect of voltage drop within the system must be calculated to ensure that drive capability is not exceeded. The Signal Isolator features a maximum fixed voltage drop of 2.5 VDC (4.2 V for 10 - 50 mA) which remains constant over the entire temperature range of 0 °C to 50 °C

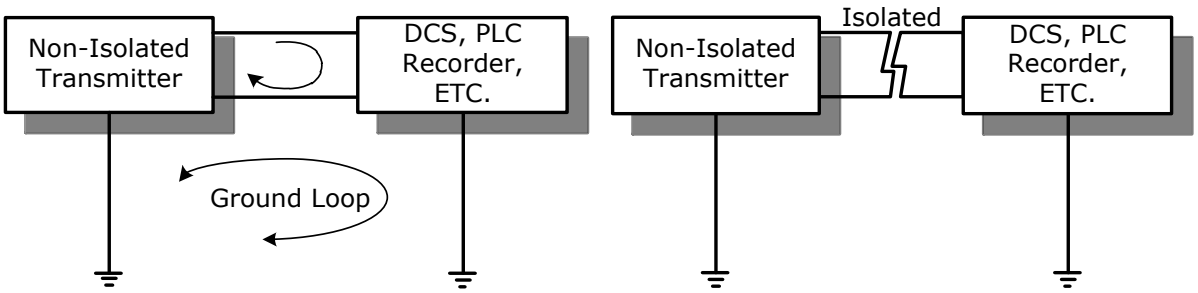


Wisnu and Supak Co., Ltd 102/111-112 Tessabansongkroh Rd., Ladyao, Jatujak, Bangkok 10900

Tel (662)591-1916, (662)954-3280-1, Fax (662)580-4427, www.wisco.co.th, E-mail info@wisco.co.th

Application Note

1) Protect value deviation that cause by Ground loop
2) Isolate systems therefore if something wrong happen with one module, it will not affect to other module



Specifications

Analog Input

Number of channel: 2 Channels
Input type: Current
Input range: 4 to 20 mA, 10 to 50 mA
Input impedance:
130 + Load resistance (4 to 20 mA)
85 + Load resistance (10 to 50 mA)

Analog Output

Number of channel: 2 Channels (Isolated)
Output type: Current
Output range: 4 to 20 mA, 10 to 50 mA
Current Limitation:
max 250 (2.5 VDC @ 20 mA)
Isolation voltage: 500 VAC
Linearity: Better then + 0.2% of span

Environmental Limits

Operating Temperature: 0 to 55 °C
Operating Humidity: 5 to 95% RH
Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W 50 x H 70 x D 130 mm.
Mounting: Wall or DIN rail
Construction: Plug - in 11 pins socket

Warranty

Warranty Period: 5 year

Ordering Information:
Example SI99

Package Checklist
1. SI99

บริษัท วิศณุและสุภัค จำกัด 102/111-112 หมู่บ้านสินพัฒนาธานี ถนนเทศบาลสงเคราะห์ แขวงลาดยาว เขตจตุจักร กรุงเทพฯ 10900
โทร. (02)591-1916, (02)954-3280-1, แฟกซ์ (02)580-4427, www.wisco.co.th, อีเมล์ info@wisco.co.th