

SIGNAL ISOLATOR

MODEL: RMG-SI-AC-2015



DESCRIPTION

Signal Isolator provides electrical (galvanic) isolation between the input and output circuits. They couple the signal to the output through a transformer. Signal isolator also breaks the direct electrical galvanic path between two or more loop points. It protects against unsafe measured-variable voltages and increase protection from surges and spikes. This Signal Isolator requires 110V ac or 230V ac as the main supply and converts 4.00 to 20.00mA input signal to galvanically isolated 4.00 to 20.00mA dual outputs.

SALIENT FEATURES

- Operates over a wide temperature and voltage ranges
- Dual Isolated outputs using a single input
- LED indication for "POWER ON" status
- Competitive pricing
- Highly rugged, reliable, user friendly and easy to install.
- High accuracy with minimal linearity error
- "ZERO" & "SPAN" trimpots are provided to adjust the outputs precisely.
- Reverse polarity protected
- One year replacement warranty on any performance issue.
- Minimal effect of ambient temperature variance on Linearity.
- Compact in size as compared to other Signal isolators available in the market
- High Isolation and Dielectric strength

APPLICATION

- Electrical Actuators and general flow controllers
- Petrochemical Industries
- Power Generation and various Process Control Applications
- Custom built operations



Redefining Mechatronics Globally

| SPECIFICATION | | |
|---------------|---|--|
| SI No | Characteristics | Specified Value |
| 1 | Input Supply Voltage range | 90VAC to 250VAC |
| 2 | Input Signal | 4-20mA |
| 3 | Output 1 | 4-20mA |
| 4 | Output 2 | 4-20mA |
| 5 | Load impedance | 600E Max, for each output |
| 6 | Linearity Error | ≤ 0.3% of I max |
| 7 | Hysteresis Error | ≤ 0.3% of I max |
| 8 | Operating Temperature Range | - 20°C to +80°C |
| 9 | Effect of Temperature | ≤0.3 % /10°C |
| 10 | Insulation resistance at 500VDC | ≥500MΩ |
| 11 | Isolation a) Between Supply with Input & Outputs b) Between Input & Outputs c) Between output 1 & output 2 | 1.5K VAC for 1 Minute 1.5K VAC for 1 Minute 1.5K VAC for 1 Minute |
| 12 | Type of Terminal | Clamping screw with pressure pad. |
| 13 | Enclosure Type | ABS molded |
| 14 | Mounting | Din Rail spring loaded Snap [Standard supply] Panel mounting (using mounting bracket) |
| 15 | Dimensions | Width – 45mm Height – 95mm Depth – 90mm |
| 16 | Weight | ≤300 grams. |

In addition, we design and manufacture “Signal Isolators” as per customer requirements/specifications.



Note 1 : Due to continuous product improvement initiatives, specification is subject to change.

Note 2: Images provided are for indicative purpose only. Accessories shown are not part of standard supply.