



**DESCRIPTION**

The MS2937 is a chassis-mount distributor that powers a two-wire transmitter and converts its 4–20mA signal into dual channel 1–5V DC output signals.

- ▽ A multi-slot chassis provides ease of maintenance and high-density mounting.
- ▽ Cost saving by eliminating the isolation between input and output.
- ▽ Equipped with a fuse on the DC power line as standard.

**ORDERING INFORMATION**

Ordering Code
MS2937

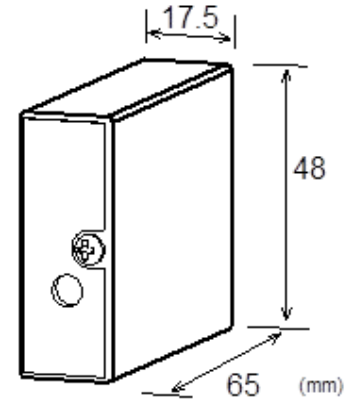
**SPECIFICATIONS**

**POWER SECTION**

Power Requirement	24V DC±10%
Power Sensitivity	Better than ±0.1% of span per 10% change in supply voltage
Power Line Fuse	2.2Ω 1/4W fuse resistor
Current Consumption	45mA max.

**INPUT SECTION**

Input	4–20mA DC from 2-wire transmitters
Input Resistance	250Ω
Transmitter Power Supply	Output voltage = Supply voltage – 1V Built-in overcurrent protection circuit; maximum current: approx. 40mA Note: Power for the transmitter is not supplied when the front-accessible push-button switch is turned off.
Transmitter Load Resistance	550Ω max.



**OUTPUT SECTION**

Output	1–5V DC
Output Impedance	250Ω
Allowable Load Resistance	250kΩ min.

**PERFORMANCE**

Accuracy Rating	±0.1% (accuracy of shunt resistor)
Temperature Effect	±25ppm/°C
Surge Withstand Capability	Tested as per ANSI/IEEE C37.90.1-1989.
Operating Environment	Ambient temperature: 0 to 55°C Humidity: 5 to 90% RH (non-condensing)
Storage Temperature	–10 to 60°C

**PHYSICAL**

Installation	Mounted in an optional chassis (RC2900).
Wiring	Wired to an optional chassis (RC2900).
External Dimensions	W17.5 × H48 × D65 mm
Weight	Approx. 70g

**MATERIAL**

Housing	ABS resin (UL 94V-0)
PC Board	Glass fabric, epoxy resin (FR-4: UL 94V-0)
Potting Agent	Polyurethane

**BLOCK DIAGRAM AND CONNECTION DIAGRAM**

