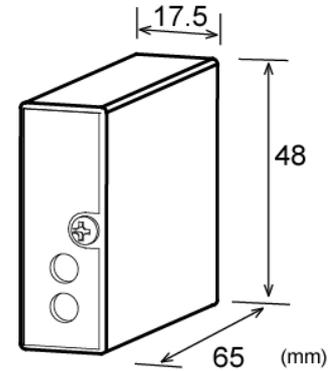


**DESCRIPTION**

The MS2907B is a chassis-mount distributor that powers a two-wire transmitter and converts its 4–20mA signals into a 1–5V DC signal, which is obtained via a 250Ω shunt resistor, and an isolated 4–20mA DC signal.

- ▽ A multi-slot chassis provides ease of maintenance and high-density mounting.
- ▽ Isolation is provided between [input, output 1], output 2, and power circuits. No isolation is provided between the input and output 1.
- ▽ Equipped with a fuse on the DC power line as standard.



**ORDERING INFORMATION**

Ordering Code
MS2907B

**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	300mA fuse
Current Consumption	80mA max.

**INPUT SECTION**

Input	4 to 20mA DC from 2-wire transmitters
Input Resistance	250Ω
Transmitter Power Supply	Output voltage: 25V DC, typical (0% input) 18V DC, typical (100% input) Maximum current: Approx. 25mA The transmitter power can be turned on and off using the push-button switch on the bottom of the unit. By default, the power is set to ON.
Limit Current for Short-Circuit Protection	26mA, typical.
Permissible Short-Circuit Duration	Continuous.

**OUTPUT SECTION**

Output 1	1–5V DC, non-isolated.
Output 2	4–20mA DC, isolated.
Allowable Output Load	Voltage output: 250kΩ min. Current output: 300Ω max.
Zero Adjustment	Approx. ±2% of span (Adjustable by front-accessible trimmer)
Span Adjustment	Approx. ±2% of span (Adjustable by front-accessible trimmer)

**PERFORMANCE**

Accuracy Rating	Better than ±0.1% of span (at 25°C±5°C) (Output 1: Accuracy of the shunt resistor)
Temperature Effect	Better than ±0.2% of span per 10°C change in ambient.
Response Time	Approx. 30Hz–3dB
Isolation	Isolation between [input, output 1], output 2, and power.
Insulation Resistance	100MΩ min. (@ 500V DC) between [input, output 1], output 2, and power.
Dielectric Strength	[Input, Output 1] / Power: 1500V AC for 1 minute (Cutoff current: 0.5mA) [Input, Output 1] / Output 2: 500V AC for 1 minute (Cutoff current: 0.5mA)
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	60g max.

**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**

