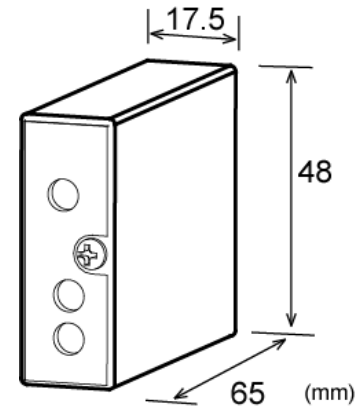




DESCRIPTION

The MS2916 is a chassis-mount first-order delay signal conditioner that adds a first-order delay (time constant adjustable from 0.2 to 20 seconds) to DC input signals and converts them into mutually isolated dual channel DC output signals.

- ▽ A multi-slot chassis provides ease of maintenance and high-density mounting.
- ▽ Input, output 1, output 2, and power circuits are all isolated from each other.
- ▽ Equipped with a fuse on the DC power line as standard.



ORDERING INFORMATION

Ordering Code
MS2916-1□□ (□-□)-8□□
[1] [2] [3]

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	50mA max.

INPUT SECTION

Input (Specify a code in the field [1].)	<ul style="list-style-type: none"> ■ 1-5V DC V1 ■ 0-5V DC V5 ■ 0-10V DC V6 ■ 4-20mA DC C1
Input Resistance	Voltage input: 1MΩ min. (10kΩ min. without power) Current input: 250Ω
Allowable Input Voltage	Voltage input: 30V DC max., continuous. Current input: 40mA DC max., continuous.
Time Constant Setting Range (Specify a range in the field [2].)	A time constant setting range should be specified between 0.2 and 20 seconds. Note that the maximum value should be not greater than 10 times the minimum value.
Time Constant Adjustment	Through the trimmer on the front panel.

OUTPUT SECTION

Output (Specify a code in the field [3].)	Output 1 / Output 2 Code <ul style="list-style-type: none"> ■ 1-5V DC / 1-5V DC V1 ■ 0-5V DC / 0-5V DC V5 ■ 0-10V DC / 0-10V DC V6 ■ 1-5V DC / 4-20mA DC C1 Note: Combinations of two outputs are only available as shown above.
Allowable Output Load	Voltage output: 2mA max. 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)
Temperature Effect	Better than ±0.2% of span per 10°C change in ambient.
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, Output 2, Power]: 1500V AC for 1 minute (Cutoff current: 0.5mA) Output 1 / Output 2 / Power: 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

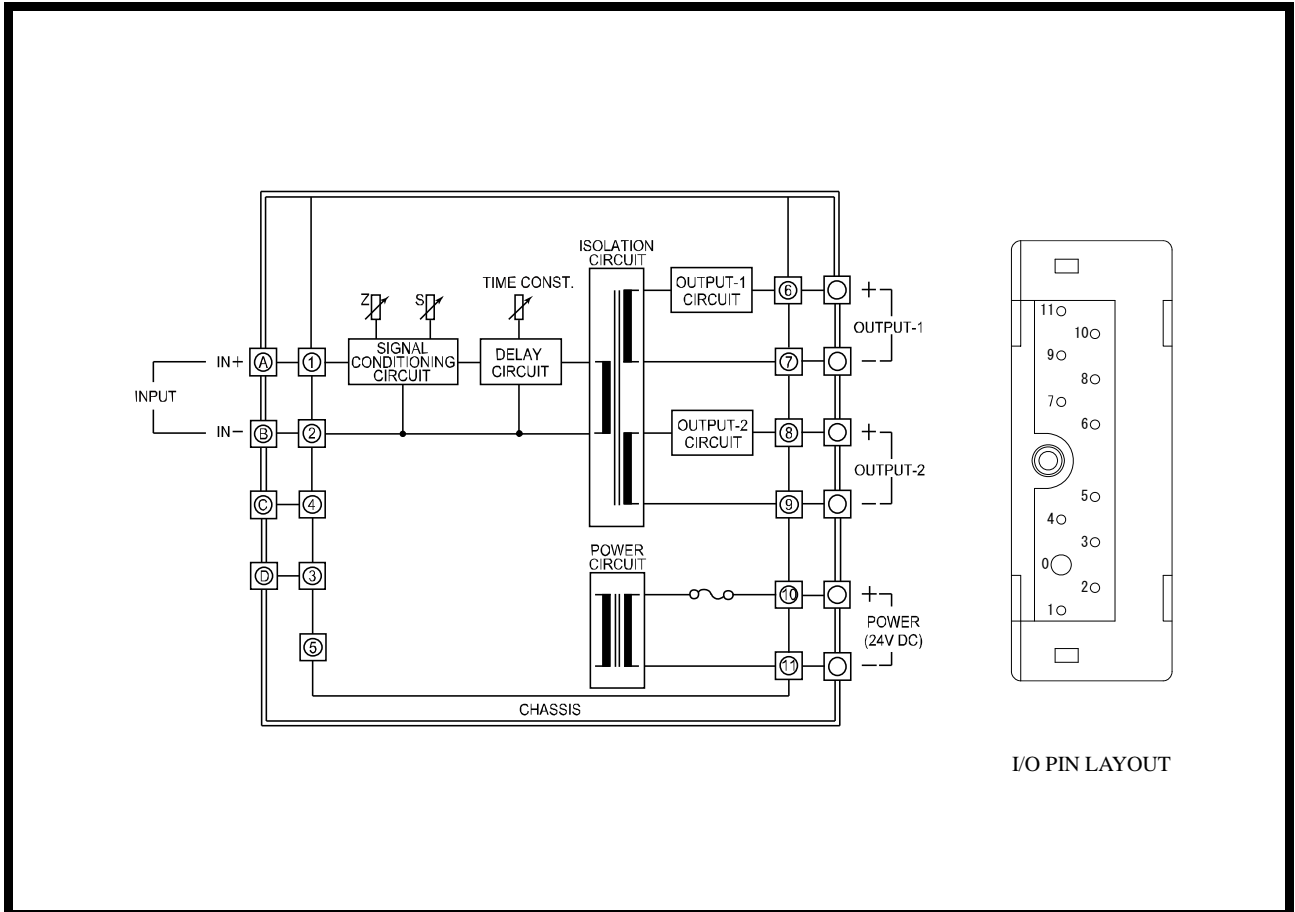
PHYSICAL

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



I/O PIN LAYOUT