



Standard Specification Sheet Model: MS2909
Chassis-mounting Pulse Shaper with Isolated Dual-output

MS2900

OVERVIEW



The MS2909 is an instrument to amplify and shape the form of pulse input signal, then to convert it into two channels of mutually isolated pulse output signal.

- ▽ Multi-unit-mountable chassis for ease of maintenance and high density installation.
- ▽ Perfect isolation mutually between Input – Output No.1 – Output No.2 – Power line.
- ▽ Fuse protection for power line.

ORDERING INFORMATION

Ordering Code		
MS2909	1	2
With power supply for transmitter		
MS2909	1	2

SPECIFICATIONS

POWER SECTION

Power Requirement	24V DC ±10%
Power Fuse	2.2Ω 1/4W Fuse resistor on power line
Power Consumption	50mA max.

INPUT SECTION

Input Signal (Specify at ① when ordering)	<ul style="list-style-type: none"> ■ Dry contact, Open collector OP (Detection power source 12V, 3.3kΩ) ■ AC voltage pulse (0.1~100Vp-p) AP (□□□)
	<p>A</p> <p>Specify at p-p value of input voltage at A.</p> <ul style="list-style-type: none"> ■ DC voltage pulse DP (□~□/□) <p>A B</p> <p>(Standard threshold voltage 2.5V)</p> <p>Specify input voltage range at A.</p> <p>For non-standard threshold voltage, specify the value at B.</p>

Maximum Input Frequency	50kHz
Input Resistance	Approx. 40kΩ (Voltage pulse input)
Input Pulse Width	20 μs min.
Power Supply for Transmitter (Specify at ③ when ordering)	Output voltage: ■ 24V DC 2-wire (Shunt resistor value to be specified) 2E1 ■ 12V DC 2-wire (Shunt resistor value to be specified) 2E4 ■ 24V DC 3-wire 3E1 ■ 24V DC 3-wire 3E4 Max current : 30mA

OUTPUT SECTION

Output Signal (Specify at ② when ordering)	1st Output Signal/2nd Output Signal ** Order Code ■ TTL Level/TTL Level TT (Maximum output 5mA) ■ Open-collector/Open-collector OP (Maximum rating 30V, 50mA) * The above combination only. Voltage pulse output is an option.
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PERFORMANCE

Insulation Resistance	100MΩ min. (@500V DC)
Dielectric Strength	Input—[Output-1, Output-2, Power]: 1500V AC for 1 minute Output-1—Output-2—Power: 500V AC for 1 minute
Surge Withstand Capability	Tested for ANSI/IEEE C37.90.1-1989
Operating Environment	Ambient temperature: 0~50°C Humidity: 90%RH max. (Non-condensation)
Storage Temperature	-10~60°C

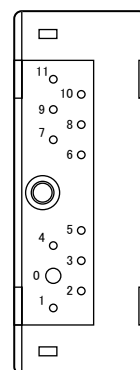
PHYSICAL

Mounting Method	Mountable on chassis (RC2900)
Wiring Method	Wired to chassis (RC2900)
Outer Dimension	W17.5×H48×D65mm (Including socket terminal block and fixing screws.)
Weight	Approx. 70g

MATERIAL

Case	ABS Resin UL94, flame resistant
PC Board	Glass Fabric Epoxy Resin

TERMINAL ASSIGNMENT



Terminal	Signal
①	+ INPUT
②	- INPUT
③	N.C.
④	EX
⑤	N.C.
⑥	+ OUTPUT 1
⑦	- OUTPUT 1
⑧	+ OUTPUT 2
⑨	- OUTPUT 2
⑩	+ DC24V
⑪	- POWER

BLOCK DIAGRAM

