

DESCRIPTION

The MS2905 is a chassis-mount alarm setter that compares the level of a DC input signal with a preset trip point and outputs an isolated relay contact closure signal.

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

ORDERING INFORMATION

Ordering Code
MS2905-1□□-8□□ [1] [2]

SPECIFICATIONS

POWER SECTION

Power Requirement	24V DC±10%
Power Line Fuse	300mA fuse
Current Consumption	50mA max.

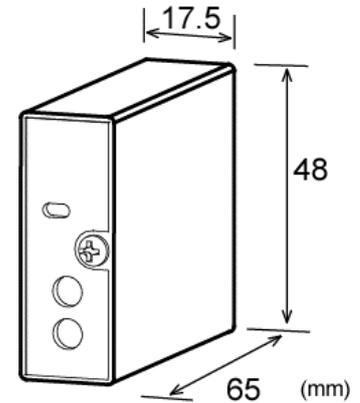
INPUT SECTION

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 (input resistance 250Ω) C1
Input Resistance	Voltage input: 1MΩ min. (10kΩ without power) Current input: 250Ω
Allowable Input Voltage	Voltage input: 30V DC max., continuous. Current input: Twice the rated input, continuous.

OUTPUT SECTION

Relay Activation Modes (Specify a code in the field [2].)	Mode of operation can be selected from the table below. The relay state without power cannot be changed by users, but the mode of operation can be altered using the push-button switch on the bottom.
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Input value > Set value	Input value < Set value	Relay state without Power	Switch Setting	Output Code
ON	OFF	OFF		OH
OFF	ON	OFF		OL
OFF	ON	ON		CH
ON	OFF	ON		CL



Trip Point (Specify a value.)	Specify a trip point within the range of 0 to 99.5% of input span, as in the example below; otherwise, it will be adjusted to 50% of input span. (Example) Trip point: 80%
Output Setting	SPST relay contact closure signal Through the front-accessible rotary switches.
Range	0 to 99% in 1% steps (+0.5% with the toggle switch on)
Accuracy	±0.5% of span
Hysteresis	±0.1% of span

PERFORMANCE

Input Response Frequency	Approx. 2Hz–3dB
Relay Response Time	Approx. 3ms
Isolation	Isolation between input, output, and power.
Insulation Resistance	100MΩ min. (@ 500V DC) between input, output, and power.
Dielectric Strength	Input / [Output, Power]: 1500V AC for 1 minute (Cutoff current: 0.5mA) Output / Power: 500V AC for 1 minute (Cutoff current: 0.5mA)
Contact Dielectric Strength	Contact / Contact: 500V AC for 1 minute (Cutoff current: 10mA) Contact/ Coil: 500V AC for 1 minute (Cutoff current: 10mA)
Contact Capacity	Rated control capacity (resistive load): 1A 30V DC Maximum allowable power (resistive load): 30W DC / 62.5VA AC Maximum allowable voltage: 110V DC / 125V AC Maximum allowable current: 1A
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

