

OVERVIEW



This is chassis-mounting distributor with dual-output that supplies DC power to two-wire transmitter and converts its 4 to 20mA current loop into any desired standard process signal.

- ▽ Anti-humid coatings on PCB are standard for improved environmental protection.
- ▽ Multiple installations on chassis provide ease of maintenance and high-density population.
- ▽ Self pop-up screws on chassis provide ease of wiring.
- ▽ Fuse on DC power line is installed standard.

ORDERING INFORMATION

Ordering Code	Standard Price
MS3907 8	OPEN

SPECIFICATIONS

POWER SECTION

Power Requirement	24V DC $\pm 10\%$
Power Sensitivity	$\pm 0.1\%$ of span max. @10% variance
Power Line Fuse	300mA fuse is installed, (standard)
Power Consumption	80mA max.

INPUT SECTION

Input Signal	4~20mA DC from 2-wire transmitter
Input Resistance	250 Ω
Transmitter Power Supply	Output voltage: Approx. 25V without load down to 18V with 20.48mA input Maximum current: 25mA (TYP)
Transmitter Load Resistance	550 Ω max.

Short-Circuit Protection Limiting Current	26mA (TYP)
Short-Circuit Time Span Allowable	Infinite
Transmitter Power Switch	Power for transmitter can be turned on and off using front toggle switch. (Green LED turns on when the power is on.)

OUTPUT SECTION

Output Signal (Specify at ① when ordering)	OUT-1/OUT-2..... Code ■ 1~5V DC/1~5V DC V1 ■ 1~5V DC/4~20mA DC C1 Combinations of two output signals are limited to the above.
Maximum Output Load	Voltage output: 2mA max. Current output: 300 Ω max.
Zero Adjustment Span	Approx. $\pm 2\%$ of span (Adjustable by front-access trimmer)
Adjustment	Approx. $\pm 2\%$ of span (Adjustable by front-access trimmer)

PERFORMANCE

Accuracy Rating	$\pm 0.1\%/F.S$ (25°C $\pm 5^\circ\text{C}$)
Temperature Effect	$\pm 0.2\%$ of span @10°C variance
Response Time	85msec max. (0→90%) @100% step input
CMRR	100dB min. (500V AC, 50/60Hz)
Isolation	Across Input, Out-1, Out-2 and Power input mutually
Insulation Resistance	100M Ω min. (@500V DC) Across Input, Out-1, Out-2 and Power input mutually
Dielectric Strength	Across Input and other ports: 1500V AC for 1 minute Across Out-1, Out-2, Power input mutually: 500V AC for 1 minute
Surge Withstand Capability	Tested for ANSI/IEEE C37.90.1-1989
Operating Environment	Ambient temperature: 0~55°C Humidity: 90% max. (Non-condensation)
Storage Temperature	-10~60°C

PHYSICAL

Installation	Installed on mounting base (RC3900-□□AI)
External Connection	Wired to mounting base (RC3900-□□AI)
Dimension	W19.5×H53×D84mm
Weight	Approx. 80g

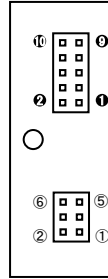
MATERIAL

Housing	ABS Resin (UL94V-0)
PC Board	Glass Fabric, Epoxy Resin (CEM-3)
Anti-humidity Coating	HumiSeal 1A27NS (Polyurethane)

ADDITIONAL

Other Options	Please consult our sales representatives for the availability of the following options before ordering: (Items) (How to specify) Change response frequency $F_c = \square\square\square\text{Hz}$ (Up to 200Hz) ■ Change response time ... $T_c = \square\square\square\text{sec}$ (Up to 2msec @90%)
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TERMINAL ASSIGNMENT



端子	信号	端子	信号
①	+ INPUT	⑦	+ OUTPUT 1
②	- INPUT	⑧	- OUTPUT 1
③	N. C.	⑨	+ OUTPUT 2
④	N. C.	⑩	- OUTPUT 2
⑤	COM.	①	+ POWER DC24V
⑥	N. C.	②	- POWER DC24V
		③	N. C.
		④	N. C.
		⑤	F. G.
		⑥	N. C.

BLOCK DIAGRAM

