



**Standard Specifications Type: MS3737**  
**Slim-shaped Plug-in Distributor with Dual Outputs**  
 (Non-isolation between input and output)

**MS3700**

**Overview**

MS3737LC is a slim-shaped plug-in distributor with dual outputs to supply power to 2-wire transmitter and convert the 4~20mA signals of the feedback loop to various DC signals as selected. This is a low-cost model that provides no isolation between the input and the output. (With power supply switch for transmitter.) (RoHS-conformed)

**Ordering Format**

**MS3737 - □**

Type \_\_\_\_\_

Power Supply \_\_\_\_\_

A : AC 85 ~ 264V    D : DC 24V  
 P : DC 85 ~ 264V

**Input Signal**

4~20mA DC of 2-wire transmitter

**Output-1**

1~5V DC

**Output-2**

4~20mA DC

**Please specify when ordering**

•Product Model Number  
 (Example) MS3737-A



**Specifications**

●Power Supply Section

<b>Power Supply</b>	AC85~264V (Rating 100~240V) 47~63Hz DC24V±10% DC85~264V (Rating 100~240V)
<b>Power Sensitivity</b>	Within ±0.1% of Span for each power supply voltage.
<b>Power Supply Fuse</b>	160mA Fuse
<b>Maximum Power Consumption</b>	AC85~264V    DC24V    DC85~264V 4.0VA max. / 1.2W max. / 4.8W max.

●Input Section

<b>Input Signal</b>	4~20mA DC from 2-wire transmitters.
<b>Input Resistance</b>	250 Ω
<b>Power Supply for Transmitter</b>	Output voltage: 25V (typical) / No load ~ 18V (typical) /Input 100% (when Out-2 short-circuited) Max. current: 25mA (typical)
<b>Limited Current for Short Circuit</b>	26mA (typical)

**Allowable Short Circuit Duration Indefinite**

\* When using the power for transmitter to power the sensor as well, it must be used in the lines between IN+~OUT2- by releasing the ones between OUT2+ and Out2-.

●Output Section

<b>Output Signal</b>	Out 1: 1~5V DC Out 2: 4~20mA DC
<b>Allowable Load Resistance</b>	Out 1: 250k Ω min. Out 2: 10 Ω max. (Up to 260 Ω available when Out-1 is short circuited.)

● Standard Performance

<b>Conversion Accuracy</b>	Within $\pm 0.1\%$ (Accuracy of input resistance)
<b>Temperature Characteristics</b>	Within $\pm 0.03\%$ of Span with every 10°C variation (Temperature coefficient of input resistance)
<b>Signal Isolation</b>	Between [Input, Out1, Out2]—Power Supply—Ground
<b>Isolation Resistance</b>	100M $\Omega$ min. (@500V DC)
<b>Dielectric Strength</b>	Between [Input, Out1, Out2]—[Power Supply, Ground] :2000V AC Shut Down Current 0.5mA for 1 min. Between Power Supply—Ground :2000V AC Shut Down Current 5mA for 1 min.
<b>Measures against SWC</b>	Conform to ANSI/IEEE C37.90.1-1989
<b>Operating Environment</b>	Temperature: -5~55°C Humidity : 5~90%RH (Non-Condensing)
<b>Storage Temp.</b>	-10~60°C

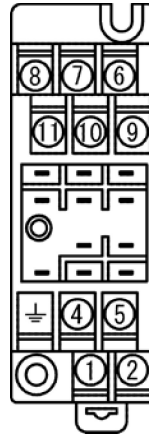
● Installation / Physical Specifications

<b>Installation</b>	Wall mounting &/or DIN-rail mounting
<b>Wiring</b>	M3.5 screw terminal connection (with P.S. terminal cover & screw drop-protection)
<b>Screw Tightening Torque</b>	0.8~1[N·m] Recommendable
<b>Outer Dimension</b>	W29×H86×D125mm (incl. set screws & terminal block)
<b>Mass</b>	Main body 110g max., Terminal Block 80g max.

● Materials

<b>Housing</b>	ABS Resin (UL-94V-0)
<b>Terminal Block</b>	ABS Resin (UL-94V-0)
<b>Terminal Screws</b>	Iron/Nickel-plated
<b>Terminal Surface Treatment</b>	0.2 $\mu$ m / Gold plated
<b>P.C. Board</b>	Glass-Epoxy (FR-4; UL-94V-0)
<b>Moisture-proof Coating</b>	HumiSeal Coating :HumiSeal 1A27NS(Polyurethane Resin)

Terminal Arrangement / Signal Assignment



①	P(+)	POWER
②	N(-)	
⏏	GND	
④	+ OUTPUT 1	
⑤	- OUTPUT 1	
⑥	N. C	
⑦	+ OUTPUT 2	
⑧	- OUTPUT 2	
⑨	+ INPUT	
⑩	- INPUT	
⑪	N. C	

Block Diagram

