

Product Specification SheetModel: MS3737LCSlim Plug-In Distributor with Dual Output(blas lasterian between langet and Output)

(Non-Isolation between Input and Output)

DESCRIPTION

The MS3737LC is a slim plug-in distributor that powers a two-wire transmitter, converts its 4 to 20mA signals into commonly used DC signals, and provides a dual output. This model has no isolation between the input and output, providing a low-cost design. (The unit does not include a transmitter power ON/OFF switch.)

ORDERING CODE

MS3737LC - 🖵

Model

Power Supply –

A: 100 to 240V AC (50 to 60Hz) **P**: 100 to 240V DC

Input

4 to 20mA DC from 2-wire transmitters

Output 1

1 to 5V DC

Output 2

4 to 20mA DC

ORDERING INFORMATION

To place an order, please use the ordering code format as shown above. (e.g.) MS3737LC-A

		86
	125	(mm)

SPECIFICATIONS

POWER SECTION 100 to 240V AC: 85 to 264V AC Power (47 to 63Hz) Requirements 100 to 240V DC: 85 to 264V DC Power Sensitivity Better than $\pm 0.1\%$ of span for each power supply range 160mA fuse is installed (standard). Power Line Fuse Power Consumption 100-240V AC 100-240V DC Power 4.8W max 3.5VA max **INPUT SECTION** 4 to 20mA DC from 2-wire Input Signal transmitters Input Resistance 250Ω Transmitter Power Output voltage: 25V, typical. with 0% input Supply 18V, typical. with 100% input (Output 2: short) Maximum current: 25mA, typical. Limit Current for 26mA (typical) Short-Circuit Protection Permissible Continuous. Short-Circuit Duration Note: If the transmitter power supply is used for sensor excitation, the sensor should be connected between the terminals INPUT (+) and OUTPUT-2 (-), while the OUTPUT-2 terminals (+) and (-) should be kept open. **OUTPUT SECTION Output Signal** Output 1: 1 to 5V DC Output 2: 4 to 20mA DC Allowable Load Output 1: 250kΩ min. Resistance Output 2: 10Ω max.

(Up to 260Ω is allowable if the plus and minus terminals of OUTPUT-1

are short connected.)

MS3700

					<u></u>
ER	FO	КN	IA	N	GE

PERFORMAN	CE	
Accuracy Rating	Better than $\pm 0.1\%$ (Accuracy of the	
	shunt resistor)	
Temperature	Better than $\pm 0.03\%$ of span per 10°C	
Effect	change in ambient. (Temperature	
	coefficient of the shunt resistor)	
Isolation	3-way isolation between [Input,	
	Output 1, Output 2], power, and	
	ground.	
Insulation	$100M\Omega$ min. (@ 500V DC) between	
Resistance	[Input, Output 1, Output 2], power,	
	and ground.	
Dielectric	[Input, Output 1, Output 2] / [Power,	
Strength	Ground]: 2000V AC for 1 minute	
	(Cutoff current: 5.0mA)	
Surge Withstand	Tested as per ANSI/IEEE	
Capability	C37.90.1-1989.	
Operating	Ambient temperature: -5 to 55°C	
Environment	Humidity: 5 to 90% RH	
	(non-condensing)	
Storage	-10 to 60°C	
Temperature		
● PHYSICAL		
Installation	Wall/DIN rail mounting	
Wiring	M3.5 screw terminal connection	
	(with a power terminal block cover &	
	drop-out prevention screws)	
Screwing Torque	0.8 to 1.0 [Nm] * Recommended	
External	$W29 \times H86 \times D125mm$	
Dimensions	(including the mounting screw and	
	socket)	
Weight	Main unit: 110g max.	
	Socket: 80g max.	

Housing	ABS resin (UL 94V-0)
Terminal Block	PBT resin (UL 94V-0)
Terminal Block	PC resin (UL 94V-2)
Cover	
DIN Rail Stopper	PP resin (UL 94HB)
Screw Terminal	Nickel-plated steel
Contacts Material	Brass with 0.2µm gold plating
and Finish	
Printed Circuit	Glass fabric epoxy resin
Board	(FR-4: UL 94V-0)
Anti-Humidity	HumiSeal [®] 1A27NS (Polyurethane)
Coating	

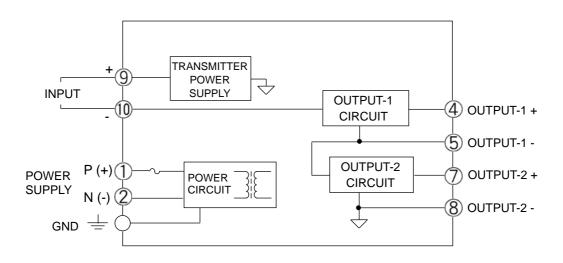
* HumiSeal[®] is a registered trademark of Chase Corporation.

TERMINAL ASSIGNMENT

-45

(1)	P (+)	POWER
2	N (-)	FOWER
1	GND	
4	+ OUTI	PUT 1
5	- OUTF	יUT 1
6	N.C.	
\bigcirc	+ OUTI	PUT 2
8	- OUTF	UT 2
9	+ INPU	Т
(10)	- INPU	Г
(11)	N.C.	

BLOCK DIAGRAM



Note: If the OUTPUT-1 is only used for distributor applications, the OUTPUT-2 terminals #7 and #8 should be short connected. If these terminals are open, the OUTPUT-1 gives no output.