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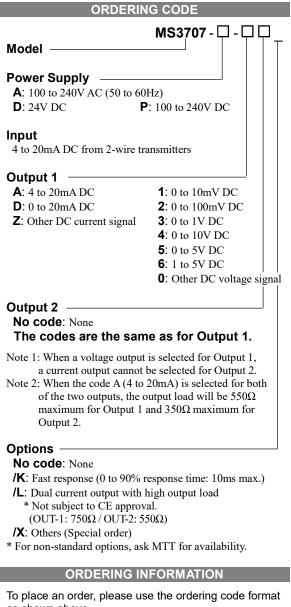


Product Specification Sheet Model: MS3707 Slim Plug-In Distributor with Isolated Single/Dual Output

DESCRIPTION

The MS3707 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 isolated single or dual output.

This model can also be used as an isolator.



as shown above. (e.g.) MS3707-A-A6

Other Ordering Examples:

For an output code of "0": MS3707-A-60 (Output: 2 to 5V) For an option code of "X": MS3707-A-AA/X (Response frequency: 50Hz)

Note: If you wish to include multiple options in your order, specify the option codes in series (e.g. /KX).

MTT Corporation

(€ ®	PECIFICATIONS	86 125 (mm)
POWER SECTI		
Power Requirements	100 to 240V AC: 85 to to 63Hz) 24V DC: 24V DC±10% 100 to 240V DC: 85 to	, 0
Power Sensitivity	Better than $\pm 0.1\%$ of s	oan for each
-	power supply range.	·
Power Line Fuse	160mA fuse is installed	l (standard).
Single Output 6.5	-240V AC 24V DC VA max 2.1W max VA max 2.4W max	100-240V DC 7.2W max 8.4W max
		0.4 W IIIdx
INPUT SECTIO		
Input Signal	4 to 20mA DC from 2- transmitters	wire
Input Resistance	250Ω	
Transmitter Power Supply	Output voltage: 26.4V, typical. 21.6V, typical. Maximum current: 22n	(100% input)
Limiting Current for Short-Circuit Protection	40mA max.	
Permissible Short-Circuit Duration	Continuous.	
OUTPUT SECT	ION	
Maximum Output Lo	ad	
Voltage Output	1V span and up	2mA max.
(DC)	10mV	$10k\Omega$ min.
Current Output	100mV	100kΩ min. 750Ω max.
Current Output (DC)	4-20mA single output 4-20mA dual output	Output 1: 550Ω max. Output 2:
		350Ω max.

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	55032 max.
Zero Adjustment	Approx. $\pm 5\%$ of span.
	(Adjustable by the front-accessible
	trimmer.)
Span Adjustment	Approx. ±5% of span.
	(Adjustable by the front-accessible
	trimmer.)

Ranges Available		
	Current Signal	Voltage Signal
Output Range (DC)	0 to 20mA	0 to 10V
Output Span (DC)	4 to 20mA	10mV to 10V
Output Bias	0 to 100%	0 to 100%
* For current output sig	gnals, the accuracy	of any current
output smaller than 0	.1mA is not guarant	eed.
Output Spec. Ex.1: For	4 to 20mA output,	the output span is
16	mA and the bias $+23$	5%.
Output Spec. Ex. 2: Fo	r 4 to 8V output, the	e output span is

4V and the bias $\pm 100\%$.

PERFORMANCE

PERFORMANC	E
Accuracy Rating	Better than $\pm 0.1\%$ of span (at
	25°C±5°C).
Temperature	Better than $\pm 0.2\%$ of span per 10°C
Effect	change in ambient.
Response Time	85ms max. (0 to 90%) with a step
	input at 100%.
CMRR	100dB min. (500V AC, 50/60Hz)
Isolation	4-way isolation between input,
	output [Output 1/Output 2], power,
	and ground.
Insulation	$100M\Omega$ min. (@ 500V DC) between
Resistance	input, output [Output 1/Output 2],
	power, and ground.
Dielectric Strength	Input / Output [Output 1/Output 2] /
	Power, Ground: 2000V AC for 1
	minute (Cutoff current: 0.5mA)
	Power / Ground: 2000V AC for 1
	minute (Cutoff current: 5mA)
	Output 1 / Output 2: 500V AC for 1
	minute (Cutoff current: 0.5mA)
Surge Withstand	Tested as per ANSI/IEEE
Capability	C37.90.1-1989.
Operating Environment	Ambient temperature: -5 to 55°C Humidity: 5 to 90% RH
Environment	(non-condensing)
Storago	-10 to 60°C
Storage Temperature	-10 10 00 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: 120g 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	· · · · ·
** :a 1® :	

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

STANDARDS CONFORMITY

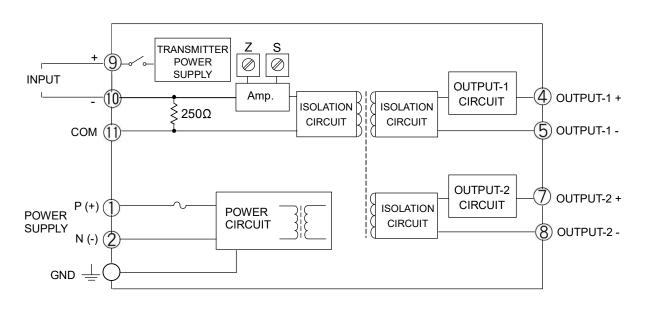
STANDARDS CONFORMITY	
CE Directive	EMC Directive (2014/30/EU)
Conformity	EN61326-1: 2013
	Low Voltage Directive (2014/35/EU)
	IEC61010-1/EN61010-1: 2010
	Installation Category II
	Pollution Degree 2
	Maximum operating voltage 300V
	Reinforced insulation between
	[input/output/GND] and power.

TERMINAL ASSIGNMENT

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806
±45
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\bigcirc	P (+) POWER
2	N (-)
ļ	GND
4	+ OUTPUT 1
5	- OUTPUT 1
6	N.C.
\bigcirc	+ OUTPUT 2
8	- OUTPUT 2
9	+ INPUT
10	- INPUT
(1)	COM

BLOCK DIAGRAM



Used as a distributor:

Used as an isolator:

