

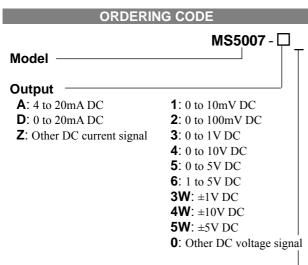
Product Specification Sheet Model: MS5007

Ultra-Slim Distributor with Isolated Single Output (European Style

Screw Terminal Block)

DESCRIPTION

The MS5007 is an ultra-slim distributor that powers a two-wire transmitter (output: 4 to 20mA), converts its signals into commonly used DC signals, and provides an isolated single output.



Options -

No code: None

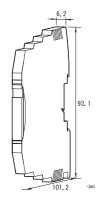
/X: Special order

* For non-standard options, ask MTT for availability.

ORDERING INFORMATION

To place an order, please use the ordering code format as shown above. (e.g.) MS5007-A

Another Ordering Example: For an output code of "0": MS5007-0 (0 to 2V)



SPECIFICATIONS

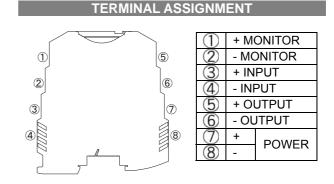
POWER SECTION	N	
Power Requirement	24V DC±10%	
Power Sensitivity	Better than $\pm 0.1\%$ of span.	
Power Line Fuse	125mA fuse is installed (standard).	
Current Rating		
Voltage Output	42mA max. (at 24V DC)	
0 1	(Approx. 38mA for	
Current Output	63mA max. (at 24V	
	(Approx. 55mA for	100% input)
	I	
Input Signal	4 to 20mA DC from	2-wire
	transmitters	
Input Resistance	250Ω	
Transmitter Power	Output voltage:	
Supply	24 to 30V (0% input)	
		(100% input)
	Maximum current: 2	25mA (typ.)
Limit Current for	30mA max.	
Short-Circuit		
Protection Permissible	Continuous.	
Short-Circuit	Continuous.	
Duration		
Duration		
OUTPUT SECTION	NC	
Allowable Output Loa	d	
Voltage Output (DC)	10V	$5k\Omega$ min.
	5V	$2.5k\Omega$ min.
	1V	500Ω min.
	10mV	$10k\Omega$ min.
	100mV	$100 \mathrm{k}\Omega$ min.
Current Output (DC)	4 to 20mA output	550Ω max.
Zero Adjustment	Approx. $\pm 5\%$ of spa	
	(Adjustable by the front-accessible	
	trimmer.)	
Span Adjustment	Approx. ±5% of span.	
	(Adjustable by the f	ront-accessible
	trimmer.)	

Ranges Available		
Ū	Current Signal	Voltage Signal
Output Range (DC)	0 to 20mA	-10 to 10V
Output Span (DC)	4 to 20mA	10mV to 20V
Output Bias	0 to 100%	-100 to 100%
* For current output sig output smaller than 0.	, ,	2
Output Spec. Ex.1: For	4 to 20mA output, t	the output span is
16m	hA and the bias $+25$	%.
Output Spec. Ex. 2: For -1 to 4V output, the output span is		
5V :	and the bias -20%.	_
	-	

PERFORMANC	E
Accuracy Rating	Better than $\pm 0.1\%$ of span (at
	25°C±5°C).
Temperature Effect	Better than ±0.2% of span per 10°C
	change in ambient.
Response Time	85ms max. (0 to 90%) with a step
	input at 100%.
CMRR	100dB min. (500V AC, 50/60Hz)
Isolation	3-way isolation between input,
	output, and power.
Insulation	$100M\Omega$ min. (@ 500V DC) between
Resistance	input, output, and power.
Dielectric Strength	1500V AC for 1 minute between
	input, output, and power. (Cutoff
	current: 0.5mA)
Operating	Ambient temperature: -20 to 55°C
Environment	Humidity: 5 to 90% RH
	(non-condensing)
Storage	-25 to 70°C
Temperature	

PHYSICAL	
Installation	DIN rail mounting
Wiring	European style screw terminal
-	block connection (M3)
Wire Size	$0.2 \text{ to } 2.5 \text{ mm}^2$
Screwing Torque	0.5 to 0.6 [Nm] * Recommended
External	W93.1 × H101.2 × D6.2mm
Dimensions	
Weight	60g max.
MATERIALS	
Housing	PBT resin (UL 94V-0)
Screw Terminal	Tin-plated copper alloy
Printed Circuit	Glass fabric epoxy resin
Board	(FR-4: UL 94V-0)
Anti-Humidity	HumiSeal [®] 1A27NSLU
Coating	(Polyurethane)
* 11 :0 18 :	

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



BLOCK DIAGRAM

