## DESCRIPTION

The MS3762F is a slim, plug-in subtractor (fast response model) that receives two DC current or voltage signals and outputs a signal proportional to the difference between those signals. The unit provides isolated single or dual output.


Output 1

| A: 4 to 20 mA DC | 1: 0 to 10 mV DC |
| :---: | :---: |
| D: 0 to 20 mA DC | 2: 0 to 100 mV DC |
| Z: Other DC current signals | 3: 0 to 1V DC |
|  | 4: 0 to 10 V DC |
|  | 5: 0 to 5 V DC |
|  | 6: 1 to 5V DC |
|  | 3W: $\pm 1 \mathrm{~V}$ DC |
|  | 4W: $\pm 10 \mathrm{~V}$ DC |
|  | 5W: $\pm 5 \mathrm{~V}$ DC |
|  | 0: Other DC voltag |

## Output 2

No code: None
The codes are the same as for Output 1.
Note 1: When a voltage output is selected for Output 1, a current output cannot be selected for Output 2.
Note 2: When the code A ( 4 to 20 mA ) is selected for both of the two outputs, the output load will be $550 \Omega$ maximum for Output 1 and $350 \Omega$ maximum for Output 2.

## Options

## No code: None

/H: Polyurethane conformal coating
/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 on the left. Also specify Input-1 and Input-2 factors (K1, K2)*.
(e.g.) MS3762F-A-6A6 (K1 = $1.0 / \mathrm{K} 2=1.0$ )

* Note that the Input-1 factor (K1) should be specified between 0.4 and 2.0, and the Input-2 factor (K2) between 0.1 and 2.0 .


## Other Ordering Examples:

For an input code of " 0 ": MS3762F-A-0AA (K1 = 1.0 / K2 $=1.0 /$ Input: 0.2 to 1 V )
For an output code of " 0 ": MS3762F-A-A60 (K1 = 1.0 / K2 $=1.0 /$ Output: 2 to 5 V )

## SPECIFICATIONS

## OPOWER SECTION

| Power | 100 to $240 \mathrm{~V} \mathrm{AC}: 85$ to 264 V AC ( 47to 63 Hz ) |  |  |
| :---: | :---: | :---: | :---: |
| Requirements | to 63 Hz ) <br> 100 to 24 | $4 \mathrm{~V} \mathrm{DC} \pm 10^{\circ}$ $\text { V DC: } 85 \text { to }$ | $264 \mathrm{~V} \text { DC }$ |
| Power Sensitivity | Better than $\pm 0.1 \%$ of span for each power supply range. |  |  |
| Power Line Fuse | 160 mA fuse is installed (standard). |  |  |
| Power Consumption |  |  |  |
| Power 1 | $100-240 \mathrm{~V}$ AC | 24 V DC | 100-240V DC |
| Single Output | 5.5 VA max | 1.8 W max | 2.2 W max |
| Dual Output | 6.3VA max | 2.0W max | 2.5 W max |

## OINPUT SECTION

| Input Resistance |  |  |
| :--- | :--- | :--- |
| Voltage Input (DC) | With or without power: $1 \mathrm{M} \Omega \mathrm{min}$ |  |
| Current Input (DC) | 4 to 20 mA (std.) | $250 \Omega$ |
|  | 2 to 10 mA | $250 \Omega$ |
|  | 1 to 5 mA | $100 \Omega$ |
|  | 0 to 20 mA | $250 \Omega$ |
|  | 10 to 50 mA | $10 \Omega$ |
| Allowable Input Voltage |  |  |
| Voltage Input Model | 30 V DC max., continuous. (for a span |  |
|  | up to 10 V ) |  |
| Current Input Model | $40 \mathrm{~mA} \mathrm{DC} \mathrm{max.}, \mathrm{continuous}. \mathrm{(for} 4$ to |  |
|  | 20 mA ) |  |




