

# MD SERIES

## ELECTRONIC TOTALIZING COUNTER

- DIN 72X72 SIZE
- 4 DIGITS (LED Display)
- SWITCH OR PULSE INPUT
- WITH MEMORY MODEL AVAILABLE
- DUST / SPLASH PROOF OPTION



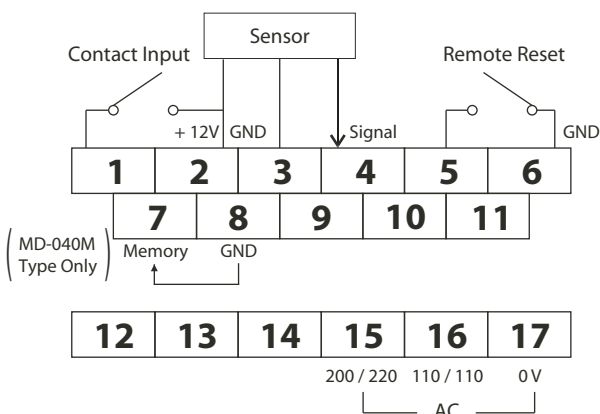
### MODEL SELECTION

Models	Digits	Memory	Weight
MD - 040	4	—	500 grams
MD - 040M		○	510 grams

### SPECIFICATIONS

Models	MD - 040	MD - 040M
Display	Red LED, 14.22 x 8.13mm (Zero Suppress)	
Input Method / Signal	Contact Input : Relay, Microswitch Non-Contact Input : L: 0 - 1V ; H: 4.5 - 27V	
Count Mode	Additive only	
Count Speed	Contact Input : 20 Hz max. / Non-Contact Input : 1000 Hz max.	
Pulse Width	Contact Input : 25 msec min. / Non-Contact Input : 0.5 msec min.	
Make (Duty)	1:1	
Reset	Front reset (push button) Remote reset (100msec min.) Electric reset (1sec min.)	Front reset (push button) Remote reset (100msec min.)
Memory	None	E <sup>2</sup> PROM (10 yrs. retention, 10,000 times)
Power Source for Sensor	DC12V 30mA maximum	
Input Impedance	5kΩ	
Power Source	AC100/110V or AC200/220V ±10%, 50/60 Hz	
Power Consumption	Approximately 2.5VA	
Operating Temperature	-5 - +40°C (Non-freezing)	0 - 40°C (Non-freezing)
Operating Humidity	45 - 85%RH (Non-condensing)	
Hi-pot Test	AC1500V (1 minute)	
Dielectric Test	20M min. (DC500V megger)	
Connection	M3 Terminal Screw	

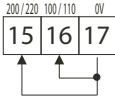


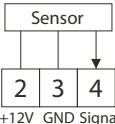

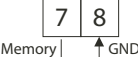
### REAR TERMINALS & WIRING



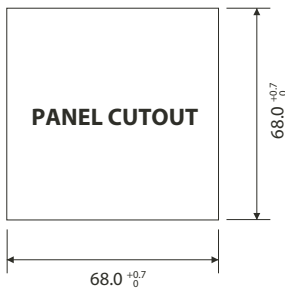
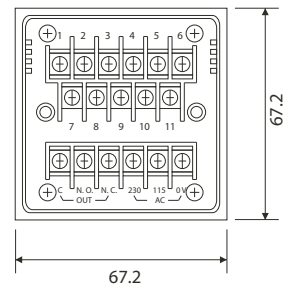
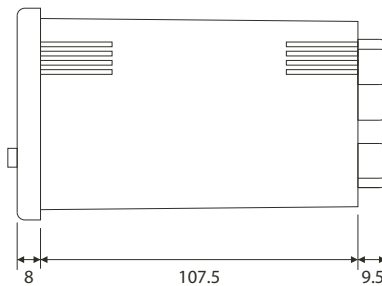
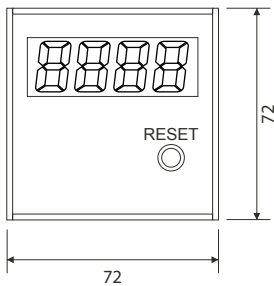
### ATTENTION!!!

1. Do not feed a voltage signal into the Contact Input terminals. This may cause damage to the input circuit of the unit.
2. Use shielded leadwires for the Input terminal and Reset terminal. Also, make the lines from the power source as far as possible from the lines of the Input and Reset lines.
3. For MD-040M model (with memory type), make sure to short terminals 7 and 8 to enable the memory function. When the counter will be shut down for a long period of time, disconnect terminals 7 and 8 to prevent the discharge of internal battery. The internal battery is charged when power is supplied to the counter.

## CONNECTION

Power Supply		Power supply can be selected between AC100/110V or AC200/220V. For AC100/110V, use terminals 16 and 17. For AC200/220V, use terminals 15 and 17.
Input	Contact 	For Contact Input (Relay, Microswitch, etc.), use terminals 1 and 2.
	Non-Contact Input (Pulse) 	For Non-Contact (Pulse) Input, connect the: Negative (-) signal to Terminal 3 DC+4.5~27V signal to Terminal 4
	Non-Contact Input (Sensor) 	For Non-Contact (Sensor) Input, connect the sensor's: DC12V power supply to Terminal 2 GND signal to Terminal 3 Output signal to Terminal 4
Remote Reset	Contact 	Resetting of the counter can be done remotely when terminals 5 and 6 are shorted with a Relay, Microswitch, etc.
Memory		For MD-040M only, to enable the memory feature, make sure to connect terminals 7 and 8.

## DIMENSIONS



\* Specifications Subject to Change Without Prior Notice  
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2003.07.11.2280A



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