

MDR SERIES

LINE SEIKI

BIDIRECTIONAL ELECTRONIC COUNTER with BCD OUTPUT

- DIN 72X144 SIZE
- BRIGHT LARGE LED DISPLAY (4 or 6 DIGITS)
- BCD OUTPUT
- WITH MEMORY
- INTERNAL SENSOR POWER SUPPLY



MDR - 040MB



MDR - 060MB

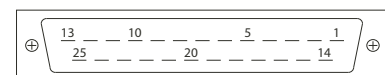
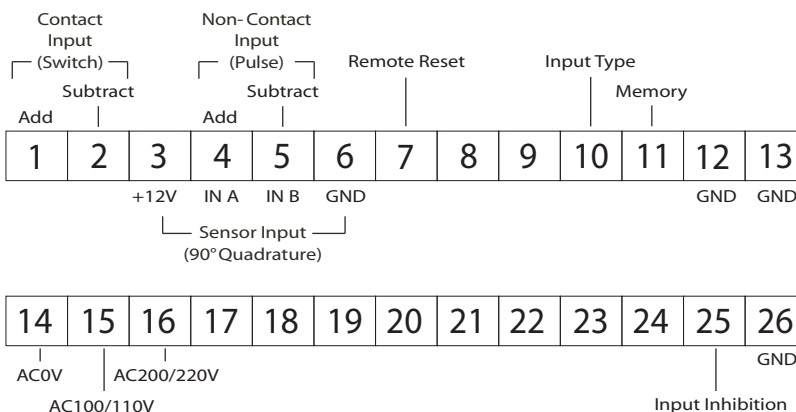
MODEL SELECTION

Models	Digits	Memory	Option	Weight
MDR - 040MB	4	○	BCD	530 grams
MDR - 060MB	6	○	Output	530 grams

SPECIFICATIONS

Models	MDR - 040MB	MDR - 060MB
Display	Red LED, 14.22 x 8.13mm (Zero Supress)	Red LED, 10.16 x 5.54mm (Zero Supress)
Input Method / Signal	Contact Input : Relay, Microswitch Non-Contact Input : L: 0 - 1V; H: +4.5 - 27V	
Count Mode	90° Quadrature (directional) / Add/Subtract	
Count Speed	Contact Input : 20 Hz max. / Non-Contact Input : 5000 Hz max.	
Pulse Width	Contact Input : 25 msec min. / Non-Contact Input : 100µsec min.	
Make (Duty)	1:1	
Reset	Front reset (push button) Remote reset (100msec min.)	
Memory	E ² PROM (10 yrs. retention, 10,000 times)	
Power Source for Sensor	DC12V 120mA maximum	
Output	BCD Output (Static Type) NPN Open Collector	
Input Impedance	5kΩ	
Power Source	AC100/110V or AC200/220V ±10%, 50/60 Hz	
Power Consumption	Approximately 4.5VA	
Operating Temperature	0 - +40°C (Non-freezing)	
Operating Humidity	45 - 85%RH (Non-condensing)	
Hi-pot Test	AC1500V (1 minute)	
Dielectric Test	20MΩ min. (DC500V megger)	
Connection	M3 Terminal Screw / BCD Output Terminal : D-SUB25 Pin Connector	

WIRING / REAR TERMINALS



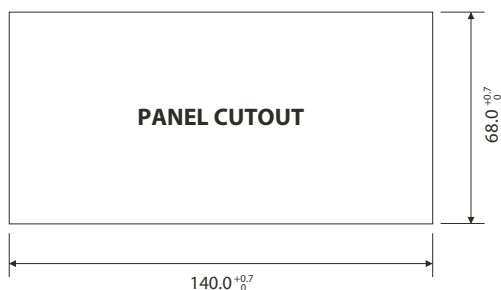
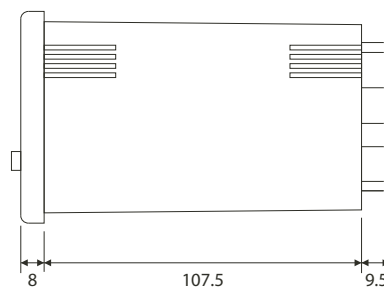
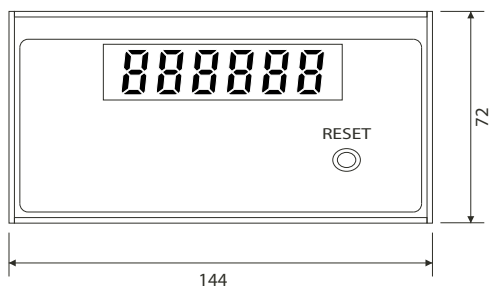
BCD Output Terminals

Digits	BCD	"1"	"2"	"4"	"8"
1	1	2	3	4	
2	5	6	7	8	
3	9	10	11	12	
4	14	15	16	17	
5	18	19	20	21	
6	22	23	24	25	
GND	13				

CONNECTIONS

Power Supply		<p>Power supply can be selected between AC100/110V or AC200/220V. For AC100/110V, use terminals 14 and 15. For AC200/220V, use terminals 14 and 16.</p>
Input	<p>Contact Input</p> <p>Non-Contact Input (Pulse)</p> <p>Non-Contact Input (Sensor)</p>	<p>For Contact Input (Relay, Microswitch, etc.): For Add count : Use terminals 1 and 3. For Subtract count : Use terminals 2 and 3.</p> <p>For Non-Contact (Pulse) Input: For Add count : Use Terminal 4 for (+) signal and 6 for (-) signal. For Subtract count : Use Terminal 5 for (+) signal and 6 for (-) signal.</p> <p>For Non-Contact (Sensor) Input, connect the sensor's: DC12V Power Supply : Terminal 3 Signal A (IN A) : Terminal 4 Signal B (IN B) : Terminal 5 GND : Terminal 6.</p>
Input Type		<p>The input type can be selected as follows: For Add/Subtract Input : no connection between terminals 10 & 12. For 90° Quadrature Input : connect terminals 10 and 12.</p>
Remote Reset		<p>Resetting of the counter can be done remotely when terminals 6 and 7 are shorted with a Relay, Microswitch, etc.</p>
Memory		<p>To enable the memory feature, make sure to connect terminals 11 and 12.</p>
Input Inhibition		<p>Input signals can be inhibited by shorting terminals 25 and 26 with a Relay, Microswitch, etc.</p>

DIMENSIONS



* Specifications Subject to Change Without Prior Notice
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